3GPP TSG SA WG5 Meeting 137-e TDoc S5-213251rev1

electronic meeting, online, 10 - 19 May 2021

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.260** | **CR** | **0420** | **rev** | **1** | **Current version:** | **17.1.0** |  |
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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 |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Update some description of offline only charging | | | | | | | | | |
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| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GSIMSCH | | | | |  | ***Date:*** | | | 2021-04-29 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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:*** | | Some description of offline charging are incorrect or missing. | | | | | | | | |
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| ***Summary of change:*** | | Add or modify some description of offline only charging. | | | | | | | | |
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| ***Consequences if not approved:*** | | Inaccurate descriptions of offline charging may lead to ambiguity. | | | | | | | | |
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| ***Clauses affected:*** | | 6.1.1a.2.1, 6.1.1a.2.2, 5.4.5, 5.4.6, 5.2.3, 6.1.1a.2.1 | | | | | | | | |
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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 ... | | |
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| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **First change** |

##### 6.1.1a.2.1 Charging Data Request message

Table 6.1.1a.2.1.1 illustrates the basic structure of a Charging Data Request message as used for IMS offline only charging.

Table 6.1.1a.2. 1.1: Charging Data Request message contents

| Information Element | Category for offline only charging | Description |
| --- | --- | --- |
| Session Identifier | OC | Described in TS 32.290 [45] |
| Subscriber Identifier | M | Described in TS 32.290 [45] |
| NF Consumer Identification | M | Described in TS 32.290 [45] |
| NF Functionality | OC | Described in TS 32.290 [45] |
| NF Name | OC | Described in TS 32.290 [45] |
| NF Address | OC | Described in TS 32.290 [45] |
| NF PLMN ID | OC | Described in TS 32.290 [45] |
| Invocation Timestamp | M | Described in TS 32.290 [45] |
| Invocation Sequence Number | M | Described in TS 32.290 [45] |
| Retransmission Indicator | OC | Described in TS 32.290 [45] |
| One-time Event | OC | Described in TS 32.290 [45] |
| One-time Event Type | OC | Described in TS 32.290 [45] |
| Service Specification Information | OC | Described in TS 32.290 [45] |
| Supported Features | - | Described in TS 32.290 [45] |
| Notify URI | - | Described in TS 32.290 [45] |
| Triggers | OC | This field is described in TS 32.290 [45] and holds the IMS specific triggers described in clause 5.x |
| Multiple Unit Usage | - | Described in TS 32.290 [45] |
| Rating Group | - | Described in TS 32.290 [45] |
| Requested Unit | - | Described in TS 32.290 [45] |
| Used Unit Container | - | Described in TS 32.290 [45] |
| Triggers | - | This field is described in TS 32.290 [45] and holds the IMS specific triggers described in clause 5.x |
| IMS Charging Information | OM | This field holds the IMS specific information described in clause 6.x |

Editor’s Note: The full structure of the charging data request is FFS.

##### 6.1.1a.2.2 Charging Data Response message

Table 6.1.1a.2.2.1 illustrates the basic structure of a Charging Data Response message as used for offline only charging.

Table 6.1.1a.2.2.1: Charging Data Response Message Contents

| **Information Element** | **Category for offline only charging** | **Description** |
| --- | --- | --- |
| Session Identifier | OC | Described in TS 32.290 [45] |
| Invocation Timestamp | M | Described in TS 32.290 [45] |
| Invocation Result | M | Described in TS 32.290 [45] |
| Result code | M | Described in TS 32.290 [45] |
| Failed parameter | OC | Described in TS 32.290 [45] |
| Failure Handling | OC | Described in TS 32.290 [45] |
| Invocation Sequence Number | M | Described in TS 32.290 [45] |
| Session Failover | OC | Described in TS 32.290 [45] |
| Triggers | OC | Described in TS 32.290 [45] |
| Multiple Unit information | - | Described in TS 32.290 [45] |
| Result Code | - | Described in TS 32.290 [45] |
| Rating Group | - | Described in TS 32.290 [45] |
| Granted Unit | - | Described in TS 32.290 [45] |
| Validity Time | - | Described in TS 32.290 [45] |
| Announcement Information |  | Described in TS 32.281 [41] |
| IMS Charging Information | OM | This field holds the IMS specific information described in clause 6.x |

Editor’s Note: The full structure of the charging data response is FFS.

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| **Next change** |

### 5.4.5 Ga record transfer flows

Details of the Ga protocol application are specified in TS 32.295 [54].

### 5.4.6 Bi CDR file transfer

Details of the Bi protocol application are specified in TS 32.297 [52].

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| **Next change** |

### 5.2.3 CDR generation

For offline only charging via Nchf interface (see clause 6.1.1a), CDR generation is the same as converged charging as described in clause 5.4.4.

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| **Next change** |

##### 6.1.1a.2.1 Charging Data Request message

Table 6.1.1a.2.2.1 illustrates the basic structure of a Charging Data Request message as used for IMS converged charging and IMS offline only charging.

Table 6.1.1a.2.2.1: Charging Data Request message contents

| Information Element | Category for offline only charging | Description |
| --- | --- | --- |
| Session Identifier | OC | Described in TS 32.290 [45] |
| Subscriber Identifier | M | Described in TS 32.290 [45] |
| NF Consumer Identification | M | Described in TS 32.290 [45] |
| NF Functionality | OC | Described in TS 32.290 [45] |
| NF Name | OC | Described in TS 32.290 [45] |
| NF Address | OC | Described in TS 32.290 [45] |
| NF PLMN ID | OC | Described in TS 32.290 [45] |
| Invocation Timestamp | M | Described in TS 32.290 [45] |
| Invocation Sequence Number | M | Described in TS 32.290 [45] |
| Retransmission Indicator | OC | Described in TS 32.290 [45] |
| One-time Event | OC | Described in TS 32.290 [45] |
| One-time Event Type | OC | Described in TS 32.290 [45] |
| Service Specification Information | OC | Described in TS 32.290 [45] |
| Supported Features | - | Described in TS 32.290 [45] |
| Notify URI | - | Described in TS 32.290 [45] |
| Triggers | OC | This field is described in TS 32.290 [45] and holds the IMS specific triggers described in clause 5.4.3. |
| Multiple Unit Usage | - | Described in TS 32.290 [45] |
| Rating Group | - | Described in TS 32.290 [45] |
| Requested Unit | - | Described in TS 32.290 [45] |
| Used Unit Container | - | Described in TS 32.290 [45] |
| Triggers | - | This field is described in TS 32.290 [45] and holds the IMS specific triggers described in clause 5.4.3. |
| IMS Charging Information | OM | This field holds the IMS specific information described in clause 6.4. |

Editor’s Note: The full structure of the charging data request is FFS.

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| **End of changes** |