3GPP TSG SA WG5 Meeting 135-e S5-211263

electronic meeting, online, 25 January - 3 February 2021

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.281** | **CR** | **0009** | **rev** | **1** | **Current version:** | **16.1.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Addition of multiple unit information contents | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | S5 | | | | | | | | | |
| ***Source to TSG:*** | Ericsson | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GSIMSCH | | | | |  | ***Date:*** | | | 2021-01-15 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | Announcement information not defined for converged charging | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Addition of announcement information for converged charging. | | | | | | | | |
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| ***Consequences if not approved:*** | | Announcements cannot be supported in a converged context | | | | | | | | |
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| ***Clauses affected:*** | | 2, 6.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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| **First change** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TS 32.240: "Telecommunication management; Charging management; Charging Architecture and Principles".

[2] - [9] Void.

[10] 3GPP TS 32.250: "Telecommunication management; Charging management; Circuit Switched (CS) domain charging".

[11] - [19] Void.

[20] 3GPP TS 32.260: "Telecommunication management; Charging management; IP Multimedia Subsystem (IMS) charging".

[21] - [29] Void.

[30] 3GPP TS 32.270: "Telecommunication management; Charging management; Multimedia Messaging Service (MMS) charging".

[31] - [34] Void.

[35] 3GPP TS 32.275: "Telecommunication management; Charging management; MultiMedia Telephony (MMTel) charging".

[36] - [44] Void.

[45] 3GPP TS 32.290: "Telecommunication management; Charging management; 5G system; Services, operations and procedures of charging using Service Based Interface (SBI)".

[46] 3GPP TS 32.291: "Telecommunication management; Charging management; 5G system; Charging service, stage 3".

[47] - [49] Void.

[50] 3GPP TS 32.299: "Telecommunication management; Charging management; Diameter charging application".

[51] - [99] Void.

[100] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[101] 3GPP TS 22.115: "Service aspects; Charging and billing".

[102] - [200] Void.

[201] -[203] Void.

[204] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

[205] - [243] Void.

[244] 3GPP TS 24.628: "Common Basic Communication procedures using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification".

[245] - [299] Void.

[300] - [401] Void.

[402] IETF RFC 4006 (2005): "Diameter Credit-Control Application".

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| **Second change** |

## 6.2 Announcement data definition

### 6.2.1 Multiple unit contents for announcement service

The components in the Multiple Unit Operation that are used for Announcement service on Ro can be found in Table 6.2.1.1.

Table 6.2.1.1: Multiple unit operation contents for announcement service

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| --- | --- | --- |
| Information Element | Category | Description |
| Multiple Unit Operation | OM | Described in TS 32.299 [50]. |
| Announcement Information | OC | This is a structured field and holds the Announcement service parameters. It is a grouped information element and may appear multiple times, once per announcement to be played.  The details are defined in clause 6.2.2. |

The components in the Multiple Unit Information that are used for Announcement service on Nchf can be found in Table 6.2.1.2.

Table 6.2.1.2: Multiple unit information contents for announcement service

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| --- | --- | --- |
| Information Element | Category | Description |
| Multiple Unit Information | OM | Described in TS 32.290 [45]. |
| Announcement Information | OC | This is a structured field and holds the Announcement service parameters. It is a grouped information element and may appear multiple times, once per announcement to be played.  The details are defined in clause 6.2.2. |

### 6.2.2 Definition of Announcement Information

Announcement Information is provided within the Multiple Unit Operation/Information.

The detailed structure of the Announcement Information can be found in table 6.2.2.1.

Table 6.2.2.1: Structure of the Announcement Information

| Information Element | Category | Description |
| --- | --- | --- |
| Announcement Identifier | OM | A code identifying the announcement to be played. |
| Variable Part Sequence | OC | Sequence of elements specifying each variable part (order, type, and value) to be played back during the announcement. The following types are supported: Integer, Number, Time, Date, Currency. |
| Time Indicator | OC | Instructs the announcement to be connected at the specified time before granted quota is exhausted, which ranges from zero to a value smaller than the granted quota.    A value of zero means at the time quota is exhausted. Absence of this field indicates that the announcement is to be played before the IMS session is allowed to continue. |
| Quota Indicator | OC | Indicates whether the granted quota should be deducted during announcement setup and playback or if the quota usage is suspended while the announcement is setup and played back. If not explicitly indicated it is up to the logic implemented in the receiving node to use or not the granted quota. |
| Announcement Order | OC | When multiple announcement information blocks are provided in a single message with the same timing indicator, the announcement order indicates the order in which announcements should be connected for playback. |
| Play Alternative | OC | Identifies either the "served party" or the "remote party" to which the announcement is to be played. |
| Privacy Indicator | OC | Identifies if the announcement is "private" or "not private". |
| Language | OC | A language code indicating the language of the announcement that should be played. |

### 6.2.3 Formal Announcement Information parameter description

The detailed Announcement Information parameter definitions are specified in TS 32.299 [50] for Ro and TS 32.291 [46] for Nchf.

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| **End of changes** |