**3GPP TSG-CT WG1 Meeting #134-eC1-221695**

**E-Meeting, 17th – 25th February 2022**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.282** | **CR** | 0315 | **rev** | 1 | **Current version:** | **17.5.0** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | 5GS/EPS alignment in MCData procedures | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MCOver5GS | | | | |  | ***Date:*** | | | 2022-01-10 |
|  |  | | | |  | |  | | |  |
| ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
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| ***Reason for change:*** | | Stage-2 MCOver5GS normative work as captured in TS 23.289 focuses on "On-network unicast communication for MC services" and specifies the use of the 5G System (5GS) to support mission critical services. Existing MC specs use EPS-specific terminology and certain EPS aspects are not applicable to 5GS in this release of the specifications like ProSe and MBMS.  Certain statements are also limiting the present document to apply only to EPS. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1)Update general description not to be limited to EPS  2)Add an Annexlisting the differences of 5GS over EPS in MC specs. | | | | | | | | |
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| ***Consequences if not approved:*** | | Implementation of specs is problematic since it is unclear which aspects of EPS are applicable to 5GS | | | | | | | | |
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| ***Clauses affected:*** | | 4.1, new Annex, new X.1, new X.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:*** | |  | | | | | | | | |

1st change

## 4.1 MCData overview

The MCData service supports communication between a pair of users (i.e. one-to-one communication) and several users (i.e. group communication), where each user has the ability to:

- share data using Short Data Service (SDS);

- share files using File Distribution (FD) service; and

- exchange Data using IP Connectivity service.

SDS is provided in both, on-network and off-network while FD and IP Connectivity is provided only in on-network in this release of the present document.

The present document provides the signalling control protocol enhancements to support the MCData architectural procedures specified in 3GPP TS 23.282 [2].

For on-network communications, the present document makes use of the existing IMS procedures specified in 3GPP TS 24.229 [5].

The on-network procedures in this document allow an MCData user to:

- send a standalone SDS using signalling control plane;

- send a standalone SDS using media plane;

- initiate a SDS session;

- send a file using HTTP;

- send a file using media plane;

- establish an IP Connectivity session to exchange Data;

- access the MCData message store; and

- use a functional alias to identify the MCData user.

For off-network, the present document utilises the procedures for ProSe direct discovery for Public Safety and the procedures for one-to-one ProSe direct communication for Public Safety and one-to-many ProSe direct communication for Public Safety, as specified in 3GPP TS 24.334 [25], and allows an MCData user to:

- send a standalone SDS using signalling control plane.

ProSe is only supported in EPS.

The MCData procedures provided by the present document refer to:

- the media plane procedures defined in 3GPP TS 24.582 [15];

- the group management procedures defined in 3GPP TS 24.481 [11];

- the identity management procedures defined in 3GPP TS 24.482 [24]; and

- the security procedures defined in 3GPP TS 33.180 [26].

The MCData procedures provided by the present document access the configuration parameters provided by 3GPP TS 24.483 [42] and 3GPP TS 24.484 [12].

The following procedures are provided within this document:

- common procedures are specified in clause 6;

- procedures for registration in the IM CN subsystem and service authorisation are specified in clause 7;

- procedures for affiliation are specified in clause 8;

- procedures for on-network and off-network SDS are specified in clause 9;

- procedures for on-network FD are specified in clause 10;

- procedures for transmission and reception control are specified in clause 11;

- procedures for dispositions and notifications are specified in clause 12;

- procedures for communication release are specified in clause 13;

- procedures for location reporting are specified in clause 17;

- procedure for using MBMS transmission are specified in clause 19;

- procedures for establishing an IP Connectivity session are specified in clause 20;

- procedures for the MCData message store are specified in clause 21; and

- procedures for the use of functional alias are specified in clause 22.

The MCData UE primarily obtains access to the MCData service via E-UTRAN or NG-RAN, using the procedures defined in 3GPP TS 24.301 [43] and 3GPP TS 24.501 [x].

2nd change

Annex X (normative):  
MCData session control specific concepts for the support of mission critical services over 5GS

3rd change

# X.1 General

The present document applies to both EPS and 5GS. This annex lists the aspects of MCData session control protocols which are different in 5GS from EPS. Certain aspects that are only applicable to EPS are described in clause X.2.

4th change

# X.2 Aspects not applicable to 5GS

The following aspects of EPS mentioned in the present document are not applicable to 5GS:

- Proximity-services (ProSe) and the corresponding procedures; and

- Multimedia Broadcast and Multicast Service (MBMS) and the corresponding procedures.

End of changes