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Foreword

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1 Scope

The present document specifies the group management protocols needed to support Mission Critical Services (MCSs).

Group management applies only when the UE operates on the network.

MCSs are services that require preferential handling compared to normal telecommunication services, e.g. in support of police or fire brigade.

MCSs can be used for public safety applications and also for general commercial applications (e.g., utility companies and railways).

The present document is applicable to User Equipment (UE) supporting the group management client (GMC) functionality, to application server supporting the group management server (GMS) functionality, and to application server supporting the Mission Critical Push To Talk (MCPTT) server functionality.

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 TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] OMA OMA-TS-XDM_Core-V2_1-20120403-A: "XML Document Management (XDM) Specification".
- [3] OMA OMA-TS-XDM_Group-V1_1_1-20170124-A: "Group XDM Specification".
- [4] 3GPP TS 23.179: "Functional architecture and information flows to support mission critical communication services".
- [5] 3GPP TS 24.379: "Mission Critical Push To Talk (MCPTT) call control Protocol specification".
- [6] IETF RFC 4745: "Common Policy: A Document Format for Expressing Privacy Preferences".
- [7] 3GPP TS 24.334: "Proximity-services (ProSe) User Equipment (UE) to ProSe function protocol aspects; Stage 3".
- [8] IETF RFC 1166: "Internet Numbers".
- [9] IETF RFC 5952: "A Recommendation for IPv6 Address Text Representation".
- [10] 3GPP TS 24.482: "Mission Critical Services (MCS) identity management; Protocol specification".
- [11] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".
- [12] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- [13] IETF RFC 5875: "An Extensible Markup Language (XML) Configuration Access Protocol (XCAP) Diff Event Package".
- [14] IETF RFC 6050: "A Session Initiation Protocol (SIP) Extension for the Identification of Services".
- [15] 3GPP TS 33.179: "Security of Mission Critical Push-To-Talk (MCPTT) over LTE".