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Foreword

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1 Scope

The present document specifies the Stage 2 of the Proximity Services (ProSe) features in EPS. ProSe features consist of: ProSe discovery (direct or EPC-level) and ProSe Direct Communication (using E-UTRAN or WLAN direct).

ProSe discovery identifies that ProSe-enabled UEs are in proximity, using E-UTRAN (with or without E-UTRAN) or EPC.

ProSe Direct Communication enables establishment of communication paths between two or more ProSe-enabled UEs that are in direct communication range. The ProSe Direct Communication path could use E-UTRAN or WLAN.

For Public Safety specific usage:

- ProSe-enabled Public Safety UEs can establish the communication path directly between two or more ProSe-enabled Public Safety UEs, regardless of whether the ProSe-enabled Public Safety UE is served by E-UTRAN.
- ProSe Direct Communication is also facilitated by the use of a ProSe UE-to-Network Relay, which acts as a relay between E-UTRAN and UEs.

Security aspects of ProSe are defined in TS 33.303 [29].

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] Open Mobile Alliance, OMA AD SUPL: "Secure User Plane Location Architecture", (http://www.openmobilealliance.org).

[3] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".

[4] Void.

[5] 3GPP TS 23.401: "General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access".

[6] IETF RFC 4862: "IPv6 Stateless Address Autoconfiguration".

[7] IETF RFC 2131: "Dynamic Host Configuration Protocol".

[8] IETF RFC 4039: "Rapid Commit Option for the Dynamic Host Configuration Protocol version 4 (DHCPv4)".

[9] 3GPP TS 23.402: "Architecture enhancements for non-3GPP accesses".

[10] IETF RFC 4861: "Neighbor Discovery for IP version 6 (IPv6)".

[11] 3GPP TS 23.221: "Architectural requirements".

[12] 3GPP TS 23.003: "Numbering, addressing and identification".