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**Universal Mobile Telecommunications System (UMTS);  
LTE;  
Mobile IPv4 (MIPv4) based mobility protocols;  
Stage 3  
(3GPP TS 29.279 version 14.0.0 Release 14)**



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# Foreword

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# 1 Scope

The present document specifies the stage 3 of the MIPv4 Based Mobility Protocol used over the S2a reference point defined in 3GPP TS 23.402 [3], and is thus applicable to the PDN Gateway and Trusted Non-3GPP Access. Protocol specification is compliant with relevant IETF RFCs.

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# 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] 3GPP TS 23.401: "GPRS enhancements for E-UTRAN access".
- [3] 3GPP TS 23.402: "Architecture Enhancements for non-3GPP accesses".
- [4] 3GPP TS 33.402: "3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses".
- [5] IETF Internet-Draft, draft-ietf-mip4-rfc3344bis-06.txt (March 2008): "IP Mobility Support for IPv4, revised".

**Editor's note:** The above document cannot be formally referenced until it is published as an RFC.

- [6] IANA Assigned Numbers Online Database, "Private Enterprise Numbers", <<http://www.iana.org/assignments/enterprise-numbers>>.
- [7] 3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core network protocols".
- [8] 3GPP TS 24.304: "Mobility management based on Mobile IPv4; User Equipment (UE) - Foreign Agent interface".
- [9] IETF RFC 3543 (August 2003): "Registration Revocation in Mobile IPv4".

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# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

**Evolved Packet Core:** the successor to the 3GPP Release 7 packet-switched core network, developed by 3GPP within the framework of the 3GPP System Architecture Evolution (SAE).

**Foreign agent:** a router on a visited network which provide mobile IPv4 routing services to the UE while registered as described in draft-ietf-mip4-rfc3344bis [5].