

# ETSI TS 129 277 V13.0.0 (2016-01)



**Universal Mobile Telecommunications System (UMTS);  
LTE;  
Optimised handover procedures and protocol between  
EUTRAN access and non-3GPP accesses (S102);  
Stage 3  
(3GPP TS 29.277 version 13.0.0 Release 13)**



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# 1 Scope

The present document specifies the stage 3 of the Evolved Packet System S102 interface between the MME and the 1x CS IWS to relay the 1xCS signalling messages documented in 3GPP TS 23.216 [2] and 3GPP TS 23.272 [4]. 1x CS signalling messages are those messages that are defined for A21 interface as described in 3GPP2 A.S0008-D [3] and 3GPP2 A.S0009-D [6]. The S102 interface messages shall be based on A21 messages.

The S102 interface is used to support UEs that do not transmit and receive on both the LTE and 1x radio interfaces simultaneously. S102 protocol aspects for SRVCC from E-UTRAN access to 3GPP2 1xCS is covered in this specification. Handling of non-voice component and protocol aspects for SRVCC from 3GPP2 1xCS to E-UTRAN direction is not specified in this release.

The S102 interface is also used to support CS fallback to 1xRTT procedures from E-UTRAN access to CDMA 1x RTT CS domain and to support SMS over S102 with the CDMA 1xRTT CS domain through support of registration over EPS procedures as specified in 3GPP TS 23.272[4].

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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 23.216: "Single Radio Voice Call Continuity (SRVCC)".
- [3] 3GPP2 A.S0008-D v1.0: "Interoperability Specification (IOS) for High Rate Packet Data (HRPD) Radio Access Network Interfaces with Session Control in the Access Network".
- [4] 3GPP TS 23.272:" Circuit Switched Fallback in Evolved Packet System".
- [5] 3GPP TS 36.413: "Evolved Universal Terrestrial Radio Access (E-UTRA); S1 Application Protocol (S1AP)".
- [6] 3GPP2 A.S0009-D v1.0: "Interoperability Specification (IOS) for High Rate Packet Data (HRPD) Radio Access Network Interfaces with Session Control in the Packet Control Function".

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# 3 Definitions, symbols and abbreviations

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 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 TR 21.905 [1].