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TECHNICAL SPECIFICATION

Universal Mobile Telecommunications System (UMTS);
LTE;
Evolved Packet System (EPS);
3GPP Sv interface (MME to MSC, and SGSN to MSC)
for SRVCC
(3GPP TS 29.280 version 14.0.0 Release 14)

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Contents

Foreword

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1   Scope

The present document describes the Sv interface between the Mobility Management Entity (MME) or Serving GPRS Support Node (SGSN) and 3GPP MSC server enhanced for SRVCC. Sv interface is used to support Inter-RAT handover from IMS based voice service over EPS to CS domain over 3GPP UTRAN/GERAN access or from UTRAN (HSPA) to 3GPP UTRAN/GERAN access and to support Inter-RAT handover from IMS based voice and video service over EPS to CS domain over 3GPP UTRAN access. Sv interface is also used to support Inter-RAT handover from voice service in CS domain over 3GPP UTRAN/GERAN access to IMS based service over LTE or UTRAN (HSPA).

If there is no specific indication, the term "MSC server" denotes 3GPP MSC server enhanced for SRVCC or 3GPP MSC server enhanced for vSRVCC as defined in 3GPP TS 23.216 [2].

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 TR 23.216: "Single Radio Voice Call Continuity (SRVCC)".

[3]   3GPP TS 29.274: "Evolved GPRS Tunnelling Protocol for Control Plane (GTPv2-C)".

[4]   3GPP TS 23.003: "Numbering, addressing and identification".

[5]   3GPP TS 23.007: "Restoration Procedures".

[6]   3GPP TS 33.401: "3GPP System Architecture Evolution (SAE): Security architecture".

[7]   3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core network protocols; Stage 3".

[8]   3GPP TS 48.008: "Mobile Switching Centre – Base Station System (MSC - BSS) interface; Layer 3 specification".

[9]   3GPP TS 25.413: "UTRAN Iu interface Radio Access Network Application Part (RANAP) signalling".

[10]   3GPP TS 33.102: "3G Security; Security architecture".

[11]   3GPP TS 29.002: "Mobile Application Part (MAP) specification; Stage 3".

[12]   3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet".

[13]   3GPP TS 23.237: "IP Multimedia Subsystem (IMS) Service Continuity: Stage 2".

[14]   3GPP TS 36.413: "S1 Application Protocol (S1AP)".

[15]   3GPP TS 33.401: "3GPP System Architecture Evolution (SAE); Security architecture".

[16]   3GPP TS 23.251: "Network Sharing; Architecture and Functional Description".

[17]   3GPP TS 29.276: "Optimized Handover Procedures and Protocols between E-UTRAN access and cdma2000 HRPD Access".