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LTE;
Optimal media routing within
the IP Multimedia Subsystem (IMS);
Stage 3
(3GPP TS 29.079 version 14.0.0 Release 14)**



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Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	5
1 Scope	6
2 References	6
3 Definitions, symbols and abbreviations	7
3.1 Definitions	7
3.2 Symbols.....	8
3.3 Abbreviations	8
4 General	8
5 Common SDP Procedures	9
5.1 General	9
5.2 Encapsulation of previous SDP information	9
5.2.1 Media level information.....	9
5.2.2 Session level information.....	9
5.3 Determination of codec related SDP information associated to a previous realm instance.....	10
5.4 Modifying codec related information.....	11
5.4.1 Modifying the format list.....	11
5.4.2 Modifying preferred configurations.....	11
5.5 Additional handling for SDP answer with actual configuration.....	12
5.6 Procedures specific to OMR attributes.....	12
5.6.1 General.....	12
5.6.2 instance-number.....	12
5.6.3 Session and media checksum calculation	13
5.7 Roaming architecture for voice over IMS with local breakout.....	13
5.8 II-NNI traversal scenario.....	13
6 IMS-ALG procedures.....	13
6.1 IMS-ALG handling of initial SDP offer.....	13
6.1.1 General.....	13
6.1.2 Validating the received SDP offer	14
6.1.3 Deciding whether to allocate a primary local MR and if any previous MR can be bypassed.....	14
6.1.4 Bypassing previous MRs	16
6.1.5 Bypassing no previous MRs	16
6.1.6 Allocating a primary local MR	16
6.1.7 Allocating no primary local MR.....	17
6.1.8 Allocating secondary local MRs	17
6.1.9 Forwarding SDP offer.....	18
6.2 IMS-ALG handling of initial SDP answer	18
6.2.1 General.....	18
6.2.2 IMS-ALG bypasses an allocated transcoding MR.....	18
6.2.3 IMS-ALG allocates a local transcoding MR when performing proactive transcoding without resource reservation	19
6.2.4 IMS-ALG determines steps required to complete the handling of the SDP answer	20
6.2.5 Receiving an unspecified connection address and a visited-realm instance	20
6.2.6 Receiving an unspecified connection address and a secondary-realm instance	21
6.2.7 Other handling when no primary local MR allocated.....	21
6.2.8 Retaining a primary or secondary local MR	21
6.2.9 Forwarding the SDP answer	22
6.3 IMS-ALG OMR media resource operations	23
6.3.1 General.....	23
6.3.2 IMS-ALG operations	23

6.4	Handling of connected IP realms	23
7	UA Procedures	24
7.1	UA sending an initial SDP offer.....	24
7.2	UA receiving an initial SDP offer	24
7.2.1	General.....	24
7.2.2	Validating the incoming SDP offer.....	24
7.2.3	UA may choose an alternate realm instance to bypass an upstream MR.....	25
7.3	UA receiving an initial SDP answer.....	25
7.3.1	General.....	25
7.3.2	Receiving SDP answer with an unspecified connection address	25
7.3.3	Receiving SDP answer with a valid connection address.....	25
7.4	UA OMR media resource operations	26
7.4.1	General.....	26
7.4.2	UA operations	26
7.5	Handling of connected IP realms	26
8	Subsequent SDP offer/answer transactions	26
8.1	General	26
8.2	IMS-ALG and UA subsequent SDP offer procedures.....	27
8.3	IMS-ALG and UA subsequent SDP answer procedures	27
8.4	Handling media resources during a subsequent SDP offer/answer transaction.....	28
Annex A (informative): Signalling flows		29
A.1	Scope of signalling flows	29
A.2	Introduction	29
A.3	Media bypassing all IMS-ALGs.....	30
A.3.1	General	30
A.3.2	Message flow.....	30
A.4	IMS-ALG allocates a local transcoding MR when performing proactive transcoding without resource reservation.....	42
A.4.1	General	42
A.4.2	Message flow.....	42
A.5	IMS-ALG bypasses an allocated transcoding MR	62
A.5.1	General	62
A.5.2	Message flow.....	62
A.6	Loopback routing via an intermediate network.....	75
A.6.1	General	75
A.6.2	Message flow.....	76
Annex B (informative): Change history		90
History		91

Foreword

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1 Scope

The present document defines optional Optimal Media Routeing (OMR) procedures that can be applied by entities in the IP Multimedia Subsystem (IMS) that control media resources and are capable of manipulating the Session Description Protocol (SDP) as defined by IETF RFC 4566 [6].

The OMR procedures in the present specification relate to the handling of OMR-specific SDP attributes that are documented in TS 24.229 [4]. The OMR procedures use SDP offer/answer related procedures in IETF RFC 3264 [5] and in 3GPP TS 24.229 [4] in a backward-compatible manner.

The 3GPP network architecture, including the configuration and network entities of the IMS, is defined in 3GPP TS 23.002 [2]. The Stage 2 of the IMS is defined 3GPP TS 23.228 [3]. Annex Q of 3GPP TS 23.228 [3] documents the architecture and call flows for OMR.

The OMR procedures in this document are applicable to the following IMS entities that perform as an IMS-ALG or UA according to 3GPP TS 24.229 [4] and that control media resources:

- an IBCF acting as an IMS-ALG;
- a P-CSCF acting as IMS-ALG;
- an AS acting as B2BUA and adapting IMS-ALG procedures to control an MRF;
- an AS acting as B2BUA and adapting UA procedures to control an MRF; and
- an MGCF acting as UA.

NOTE 1: An AS acting as B2BUA to perform application functions such as conferencing or announcements will normally perform separate originating and terminating UA procedures, treating the media resource as an endpoint. An AS acting as B2BUA offering transcoding options will typically follow IMS-ALG procedures.

NOTE 2: The controlled media resource can be a TrGW, IMS-AGW, MRF, or a media function of the entity performing OMR.

The OMR procedures are not applicable for an UE.

2 References

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- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.002: "Network architecture".
- [3] 3GPP TS 23.228: "IP multimedia subsystem; Stage 2".
- [4] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".
- [5] IETF RFC 3264: "An Offer/Answer Model with Session Description Protocol (SDP)".
- [6] IETF RFC 4566: "SDP: Session Description Protocol".