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Fixed network Multimedia Messaging Service (F-MMS); Part 8: Combined PSTN/ISDN and broadband access; Service description

Reference

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Foreword

This ETSI Standard (ES) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

The present document is part 8 of a multi-part deliverable covering the Fixed network Multimedia Messaging Service (F-MMS), as identified below:

TS 102 314-1:   "Overview";

ES 202 314-2:   "PSTN/ISDN; Service description";

TR 102 314-3:   "Network architecture and interconnection";

ES 202 314-4:   "PSTN/ISDN; Multimedia Message communication between a fixed network Multimedia Messaging Terminal Equipment and a Multimedia Messaging Service Centre";

ES 202 314-5:   "ISDN; Digital Subscriber Signalling System No. One (DSS1) protocol, Signalling System No. 7 (SS7) - ISDN User Part (ISUP), and interworking between DSS1 and ISUP";

TR 102 314-6:   "Control strings (service codes) for MMS functions and MMS supplementary services";

TS 102 314-7:   "Over-The-Line configuration of F-MMS terminal settings";

ES 202 314-8:   "Combined PSTN/ISDN and broadband access; Service description";

ES 202 314-9:   "Combined PSTN/ISDN and broadband access; Multimedia Message communication between a fixed network Multimedia Messaging Terminal Equipment and a Multimedia Messaging Service Centre".

NOTE: The parts above refer to the active work items and published standards within ETSI. These work items do not include MMS over NGN.

Introduction

F-MMS via a PSTN/ISDN and broadband access (e.g. xDSL) is a supplement to F-MMS via PSTN/ISDN which is already defined and in some networks implemented.

Only amendments to the requirements stated in the PSTN/ISDN service description ES 202 314-2 [2] are described in the following.

The numbering of the PSTN/ISDN service description has been kept in the present document, i.e. not all clauses are necessarily included.

1 Scope

The present document defines the service description of the Fixed network Multimedia Messaging Service (F-MMS) for fixed networks via ISDN or PSTN in combination with broadband accesses.

The present document does not cover F-MMS via the so-called "Next Generation Network" (NGN).

The present document is based on PSTN/ISDN service description ES 202 314-2 [2] and highlights the differences and describes the supplement requirements to ES 202 314-2 [2] only.

Furthermore, conformance to the present document is met by conforming to the protocol standards with the field of application appropriate to the equipment being implemented. Therefore no method of testing is provided for the present document.

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 and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

[1]   ETSI TS 102 314-1: "Fixed network Multimedia Messaging Service (F-MMS); Part 1: Overview".

[2]   ETSI ES 202 314-2: "Fixed network Multimedia Messaging Service (F-MMS); PSTN/ISDN; Part 2: PSTN/ISDN; Service description".

[3]   ITU-T Recommendation E.164: "The international public telecommunication numbering plan".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ES 202 314-2 [2] and the following apply:

broadband access: the term "broadband access" covers access types like xDSL, Cable, Satellite, etc.

NOTE: The MMS communication is independent of the way how this broadband access is provided.

3.2 Abbreviations

For the purposes of the present document, the abbreviations defined in ES 202 314-2 [2] and the following apply:

xDSL   x Digital Subscriber Line

4 Description

4.1 General

The F-MMS described in the present document applies to ISDN or PSTN accesses in combination with broadband accesses. In case of combined accesses, only push-based transactions like the MM Notification are conveyed via the PSTN or ISDN interface. Sending and retrieval of MM are processed via the broadband access.
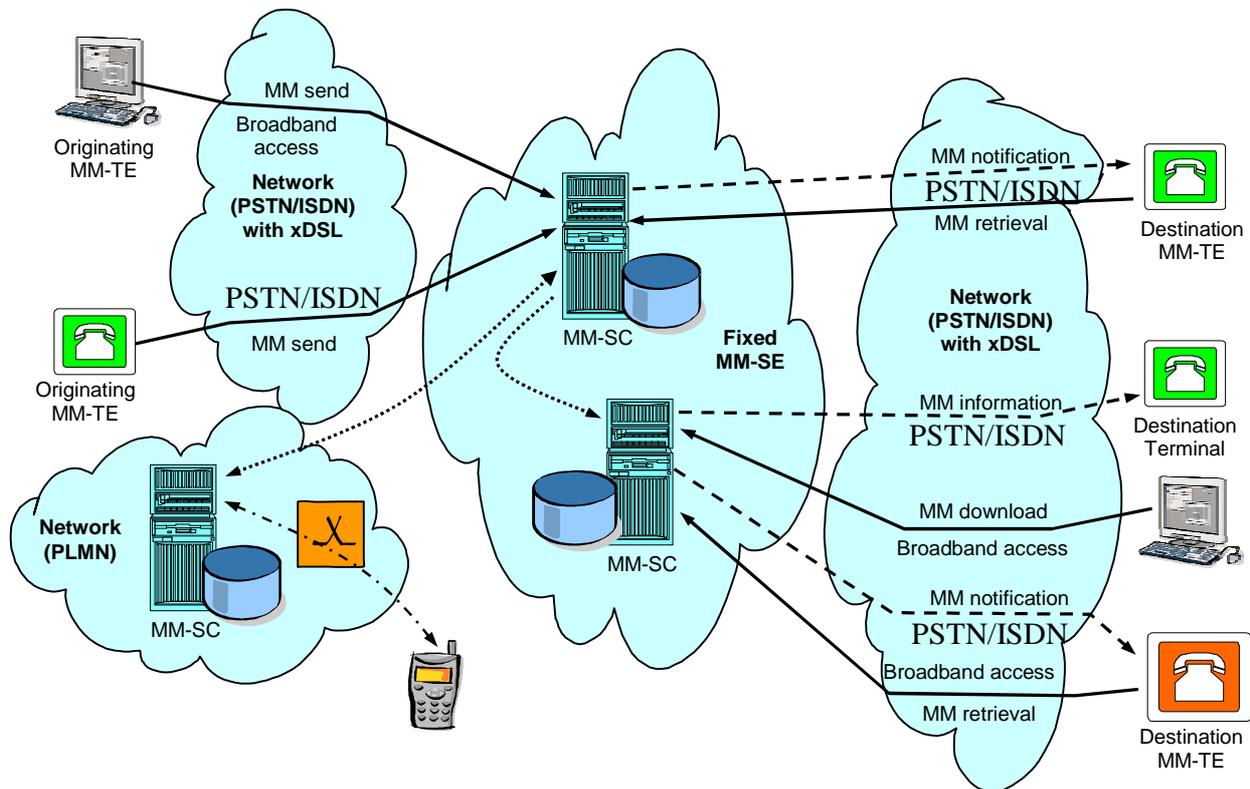

Figure 1: Multimedia messages between different networks

4.2 Basic Features

In addition to the basic features defined in ES 202 314-2 [2] clause 4.3, the following specific requirements are applicable to F-MMS via broadband access.

4.2.1 User identification

In case of broadband access, the MM-SC does not necessarily get the address (i.e. the ITU-T Recommendation E.164 [3] number) of the sending user from the respective Internet Provider. Therefore, the identity of the originating user (i.e. the ITU-T Recommendation E.164 [3] number) is derived from the authentication of the user by the MM-SE.

5   Procedures

5.1   Registration and erasure

5.1.1   Core requirements

In order to be able to submit or retrieve MM using a broadband access, the user shall be assigned a unique username/password combination. The username/password assignment may be handled using a WEB-Interface.

5.2   Activation and Deactivation

5.2.1   Optional requirements

Activation and deactivation by the user may also be possible via the user profile using a WEB-Interface.

5.3   Invocation and operation

5.3.1   Outgoing message (MM Submission)

As the respective Internet Provider will likely not provide the address (i.e. the ITU-T Recommendation E.164 [3] number) of the originating MMS user to the MM-SC, the identity of the originating user (i.e. the ITU-T Recommendation E.164 [3] number) is derived from the authentication of the user by the MM-SE.

5.3.2   Incoming message (MM retrieval)

The MM-TE shall retrieve the MM from the MM-SC using the transmission capabilities of the respective access type automatically or after a user confirmation. As the respective Internet Provider will likely not provide the address (i.e. ITU-T Recommendation E.164 [3] number) of the retrieving MMS user to the MM-SC, the identity of the retrieving user (i.e. the ITU-T Recommendation E.164 [3] number) is derived from the authentication of the user by the MM-SE.

History

<table>
<tr><th colspan="4">Document history</th></tr>
<tr><td>V1.1.1</td><td>November 2005</td><td>Membership Approval Procedure</td><td>MV 20060120: 2005-11-22 to 2006-01-20</td></tr>
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