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Integrated Services Digital Network (ISDN); Message Waiting Indication (MWI) supplementary service; Service description

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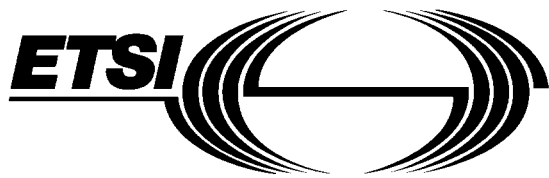
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Foreword

This European Telecommunication Standard (ETS) has been produced by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI).

In accordance with CCITT Recommendation I.130 [4], the following three level structure is used to describe the supplementary telecommunication services as provided by European public telecommunications operators under the pan-European Integrated Services Digital Network (ISDN):

- Stage 1: is an overall service description, from the user's stand-point;
- Stage 2: identifies the functional capabilities and information flows needed to support the service described in stage 1; and
- Stage 3: defines the signalling system protocols and switching functions needed to implement the service described in stage 1.

This ETS details the stage 1 aspects (overall service description) for the Message Waiting Indication (MWI) supplementary service. The stage 3 aspects are detailed in ETS 300 745-1 and ETS 300 754-1.

Transposition dates	
Date of adoption of this ETS:	19 June 1998
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Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 March 1999
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1 Scope

The present document defines the stage one of the Message Waiting Indication (MWI) supplementary service for the pan-European Integrated Services Digital Network (ISDN) as provided by European public network operators. Stage one is an overall service description from the user's point of view (see CCITT Recommendation I.130 [4]), but does not deal with the details of the human interface itself.

This ETS defines the interworking requirements of private ISDNs with the public ISDN.

Interactions with supplementary services not listed in clause 8 are outside the scope of this ETS.

The MWI supplementary service is provided independently of a call and is therefore applicable to a number of telecommunication services.

Charging principles are outside the scope of this ETS.

The MWI supplementary service enables the network, upon the request of a controlling user to indicate to the receiving user, that there is at least one message waiting.

NOTE: The MWI supplementary service is typically used between a mailbox service provider (controlling user) and a user (receiving user) of the mailbox service provided.

This ETS is applicable to the stage two and stage three standards for the ISDN MWI supplementary service. The terms "stage two" and "stage three" are also defined in CCITT Recommendation I.130 [4]. Where the text indicates the status of a requirement (i.e. as strict command or prohibition, as authorization leaving freedom, or as a capability or possibility), this shall be reflected in the text of the relevant stage two and stage three standards.

Furthermore, conformance to this ETS is met by conforming to the stage three standard with the field of application appropriate to the equipment being implemented. Therefore, no method of testing is provided for this ETS.

2 Normative references

This ETS incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to, or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 345 (1994): "Integrated Services Digital Network (ISDN): Interworking between public and private ISDNs for the provision of telecommunication services; General aspects".
- [2] CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".
- [3] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".
- [4] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [5] ITU-T Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [6] ITU-T Recommendation I.221 (1993): "Common specific characteristics of services".
- [7] CCITT Recommendation Q.9 (1988): "Vocabulary of switching and signalling terms".

3 Definitions

For the purposes of this ETS the following definitions apply:

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [3], § 2.3, definition 308.

service; telecommunications service: See ITU-T Recommendation I.112 [3], § 2.2, definition 201.

supplementary service: See ITU-T Recommendation I.210 [5], § 2.4.

ISDN number: A number conforming to the numbering plan and structure specified in CCITT Recommendation E.164 [2].

receiving user: The user that receives the message waiting indication.

controlling user: The user that activates and deactivates the MWI supplementary service.

NOTE: The controlling user is likely to be a mail box.

basic call procedures: The procedures by which a call (as an instance of a telecommunications service) is established and terminated.

basic access: See CCITT Recommendation Q.9 [7], § 1, definition 1551.

primary rate access: See CCITT Recommendation Q.9 [7], § 1, definition 1552.

network operator: Entity which provides the network operating elements and resources for the execution of the MWI supplementary service.

service provider: Entity which offers the MWI supplementary service. The network operator may be the service provider.

mail box: A system, inside or outside the public network infrastructure, capable to handle mail.

4 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

MWI	Message Waiting Indication
ISDN	Integrated Services Digital Network
PSTN	Public Switched Telephone Network

5 Description

The Message Waiting Indication (MWI) supplementary service shall be available to users who are connected to the network via a basic access or primary rate access.

The MWI supplementary service enables the network, upon the request of a controlling user to indicate to the receiving user, that there is at least one message waiting. The indication is delivered to the receiving user:

- when the MWI supplementary service is activated for a certain basic service and the receiving user makes an outgoing call attempt; and/or
- as soon as the MWI supplementary service has been activated or deactivated.

NOTE: Having received this indication, the receiving user can subsequently access the mail box, to have the mail delivered. The means by which the receiving user accesses and manages the mail box are outside the scope of the present document.

6 Procedures

6.1 Provision and withdrawal

The MWI supplementary service shall be provided to the controlling user after prior arrangement with the service provider. The MWI supplementary service shall be withdrawn at the controlling user's request, or for administrative reasons.

The MWI supplementary service shall be provided to the receiving user after prior arrangement with the service provider. The MWI supplementary service shall be withdrawn at the receiving user's request, or for administrative reasons. As a network option, the receiving user can have a subscription option to register the controlling user numbers that can activate and deactivate the MWI supplementary service.

Table 1

Network options	Values
Support of subscription option for registration of the ISDN number(s) of the controlling user(s):	- yes - no
Provide additional information during deferred invocation:	- yes - no
Maximum number of controlling users' ISDN numbers registered by the network:	any integer value
Maximum number of active instances per receiving user:	any integer value

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The maximum number of Integrated Services Digital Network (ISDN) numbers that can be registered for a receiving user is a network option.

Provision of the MWI supplementary service shall be possible on an access or ISDN number basis.

In addition, the following subscription options shall be made available to the receiving user:

Table 2

Subscription options	Values
Invocation mode:	a) deferred mode: invocation when the supplementary service is activated and the receiving user makes an outgoing call; b) immediate mode: invocation as soon as the supplementary service has been activated or deactivated; c) combined mode: in this case both the deferred and immediate mode apply.
Override of invocation mode by controlling user allowed:	- yes - no
Registration of the ISDN number(s) of the controlling user(s):	- yes - no