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8 [[]HJbc`ca fYy^Y`n`]bhY[f]fUb]a]g'g'f]h] Ua]'f'g'8 B'É'8 cdc`b]bUg'g'f]h]j .]bX]_UW]U
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Integrated Services Digital Network (ISDN); Message Waiting Indication (MWI)
supplementary service; Service description

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

In accordance with ITU-T 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.

The present document is a revised version according to the new SPAN2 work item of the ETS 300 650 [8] that 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 [9] and ETS 300 754-1 [10].

National transposition dates

Date of adoption of this EN:	25 May 2001
Date of latest announcement of this EN (doa):	31 August 2001
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	28 February 2002
Date of withdrawal of any conflicting National Standard (dow):	28 February 2002

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 ITU-T Recommendation I.130 [4] and ITU-T Recommendation I.221 [6]), but does not deal with the details of the human interface itself.

The present document defines the interworking requirements of private ISDNs with the public ISDN.

Interactions with supplementary services not listed in clause 7 are outside the scope of the present document.

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 the present document.

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.

The present document 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 ITU-T Recommendation I.130 [4] and ITU-T Recommendation I.221 [6]. 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 the present document 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 the present document.

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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 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.

- [1] ETSI ETS 300 345 (1994): "Integrated Services Digital Network (ISDN); Interworking between public ISDNs and private ISDNs for the provision of telecommunication services; General aspects".
- [2] ITU-T Recommendation E.164 (1997): "The international public telecommunication numbering plan".
- [3] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".
- [4] ITU-T 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] ITU-T Recommendation Q.9 (1988): "Vocabulary of switching and signalling terms".

- [8] ETSI ETS 300 650 (1998): "Integrated Services Digital Network (ISDN); Message Waiting Indication (MWI) supplementary service; Service description".
- [9] ETSI ETS 300 745-1 (1997): "Integrated Services Digital Network (ISDN); Message Waiting Indication (MWI) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [10] ETSI ETS 300 754-1 (1997): "Integrated Services Digital Network (ISDN); Signalling System No.7; Transaction Capabilities (TC); Application Service Element (ASE) for Message Waiting Indication (MWI) supplementary service; Part 1: Protocol specification".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

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

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

supplementary service: see ITU-T Recommendation I.210 [5], clause 2.4

ISDN number: number conforming to the numbering plan and structure specified in ITU-T Recommendation E.164 [2]

receiving user: user that receives the message waiting indication

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

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

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

basic access: see ITU-T Recommendation Q.9 [7], clause 1, definition 1551

primary rate access: see ITU-T Recommendation Q.9 [7], clause 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: system, inside or outside the public network infrastructure, capable to handle mail

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

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