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Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Inter-exchange signalling protocol — Message Waiting Indication supplementary service

Technologies de l'information — Télécommunications et échange d'information entre systèmes — Réseau privé à intégration de services — Protocole de signalisation d'interéchange — Service supplémentaire d'indication d'attente de message

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Contents

Foreword		**v**
Introduction		**vi**
1	Scope	**1**
2	Conformance	**1**
3	Normative references	**1**
4	Terms and definitions	**2**
4.1	External definitions	**2**
4.2	Other definitions	**2**
4.2.1	Message Centre PINX	**2**
4.2.2	Served User	**2**
4.2.3	Message Centre	**2**
4.2.4	Message Waiting Indication	**2**
5	List of acronyms	**2**
6	Signalling protocol for the support of SS-MWI	**3**
6.1	SS-MWI description	**3**
6.2	SS-MWI operational requirements	**3**
6.2.1	Requirements on a Message Centre PINX	**3**
6.2.2	Requirements on a Served User PINX	**3**
6.2.3	Requirements on a Transit PINX	**3**
6.3	SS-MWI coding requirements	**4**
6.3.1	Operations	**4**
6.3.2	Information elements	**8**
6.3.3	Messages	**8**
6.4	SS-MWI state definitions	**8**
6.4.1	States at the Message Centre PINX	**8**
6.4.2	States at the Served User PINX	**8**
6.5	SS-MWI signalling procedures	**8**
6.5.1	Actions at the Message Centre PINX	**8**
6.5.2	Actions at the Served User PINX	**9**
6.5.3	Actions at a Transit PINX	**10**
6.6	SS-MWI impact of interworking with public ISDNs	**10**
6.6.1	Incoming Gateway PINX procedures	**10**
6.6.2	Outgoing Gateway PINX procedures	**10**
6.7	SS-MWI impact of interworking with non-ISDNs	**11**
6.8	Protocol interactions between SS-MWI and other supplementary services and ANFs	**11**
6.8.1	Interaction with Advice Of Charge (SS-AOC)	**11**
6.8.2	Interaction with Call Deflection (SS-CD)	**11**
6.8.3	Interaction with Call Forwarding Unconditional (SS-CFU)	**11**
6.8.4	Interaction with Call Forwarding Busy (SS-CFB)	**11**
6.8.5	Interaction with Call Forwarding No Reply (SS-CFNR)	**11**
6.8.6	Interaction with Call Interception (ANF-CINT)	**11**

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6.8.7 Interaction with Call Intrusion (SS-CI) **11**
6.8.8 Interaction with Call Offer (SS-CO) **11**
6.8.9 Interaction with Call Transfer (SS-CT) **11**
6.8.10 Interaction with Calling Name Identification Presentation (SS-CNIP) **11**
6.8.11 Interaction with Connected Name Identification Presentation (SS-CONP) **11**
6.8.12 Interaction with Completion of Call to Busy Subscriber (SS-CCBS) **11**
6.8.13 Interaction with Completion of Call on No Reply (SS-CCNR) **11**
6.8.14 Interaction with Do Not Disturb (SS-DND) **11**
6.8.15 Interaction with Do Not Disturb Override (SS-DNDO) **11**
6.8.16 Interaction with Path Replacement (ANF-PR) **12**
6.8.17 Interaction with Recall (SS-RE) **12**
6.8.18 Interaction with Route Restriction Class (ANF-RRC) **12**
6.8.19 Interaction with Authentication of the PISN (SS-WTAN) **12**
6.8.20 Interaction with Authentication of a WTM user (SS-WTAT) **12**
6.8.21 Interaction with Wireless Terminal Location Registration (SS-WTLR) **12**
6.8.22 Interaction with Wireless Terminal Mobility Incoming Call (SS-WTMI) **12**
6.8.23 Interaction with Wireless Terminal Mobility Outgoing Call (SS-WTMO) **12**

6.9 SS-MWI parameter values (timers) **12**

6.9.1 Timer T1 **12**
6.9.2 Timer T2 **12**

Annexes

A - Protocol Implementation Conformance Statement (PICS) proforma **13**

B - Examples of Message Sequences **18**

C - Specification and Description Language (SDL) Representation of Procedures **22**

D - Imported ASN.1 definitions **28**

E - ASN.1 definitions according to ITU-T Recs. X.208 / X.209 **29**

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 15506 was prepared by ECMA (as ACMA-242) and was adopted, under a special “fast-track procedure”, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

This third edition cancels and replaces the second edition (ISO/IEC 15506:2000), which has been technically revised.

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Introduction

This International Standard is one of a series of Standards defining services and signalling protocols applicable to Private Integrated Services Networks (PISNs). The series uses ISDN concepts as developed by ITU-T and conforms to the framework of International Standards for Open Systems Interconnection as defined by ISO/IEC.

This International Standard specifies the signalling protocol for use at the Q reference point in support of the Message Waiting Indication supplementary service. The protocol defined in this International Standard forms part of the PSS1 protocol (informally known as QSIG).

This International Standard is based upon the practical experience of ECMA member companies and the results of their active and continuous participation in the work of ISO/IEC JTC 1, ITU-T, ETSI and other international and national standardization bodies. It represents a pragmatic and widely based consensus.

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Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Inter-exchange signalling protocol — Message Waiting Indication supplementary service

1 Scope

This International Standard specifies the signalling protocol for the support of the Message Waiting Indication supplementary service (SS-MWI) at the Q reference point between Private Integrated services Network eXchanges (PINXs) connected together within a Private Integrated Services Network (PISN).

The supplementary service MWI enables a Served User to be sent a Message Waiting Indication and also enables this Message Waiting Indication to be cancelled. The Served User may also be permitted to interrogate the Message Centre for any Message Waiting Indication.

The Q reference point is defined in ISO/IEC 11579-1.

Service specifications are produced in three stages and according to the method specified in ETS 300 387. This International Standard contains the stage 3 specification for the Q reference point and satisfies the requirements identified by the stage 1 and stage 2 specifications in ISO/IEC 15505.

The signalling protocol for SS-MWI uses certain aspects of the generic procedures for the control of supplementary services specified in ISO/IEC 11582.

This International Standard also specifies additional signalling protocol requirements for the support of interactions at the Q reference point between SS-MWI and other supplementary services and ANFs.

NOTE 1 - Additional interactions that have no impact on the signalling protocol at the Q reference point can be found in the relevant stage 1 specifications.

This International Standard is applicable to PINXs which can interconnect to form a PISN.

2 Conformance

In order to conform to this International Standard, a PINX shall satisfy the requirements identified in the Protocol Implementation Conformance Statement (PICS) proforma in annex A.

Conformance to this International Standard includes conforming to those clauses that specify protocol interactions between SS-MWI and other supplementary services and ANFs for which signalling protocols at the Q reference point are supported in accordance with the stage 3 standards concerned.

3 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 8601:2000, *Data elements and interchange formats - Information interchange - Representation of dates and times*

ISO/IEC 11579-1:1994, *Information technology - Telecommunications and information exchange between systems - Private integrated services network - Part 1: Reference configuration for PISN Exchanges (PINX)*

ISO/IEC 11582:2002, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Generic functional protocol for the support of supplementary services - Inter-exchange signalling procedures and protocol*

ISO/IEC 13873:2003, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Call Diversion supplementary services*

ISO/IEC 15505:2003, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Specification, functional model and information flows - Message Waiting Indication supplementary service*

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ETS 300 387:1994, *Private Telecommunication Network (PTN); Method for the specification of basic and supplementary services*

ITU-T Rec. I.112:1993, *Vocabulary of terms for ISDNs*

ITU-T Rec. I.210:1993, *Principles of telecommunication services supported by an ISDN and the means to describe them*

ITU-T Rec. Q.950:2000, *Supplementary services protocols, structure and general principles*

ITU-T Rec. Z.100:1999, *Specification and description language (SDL)*

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