
**Information technology —
Telecommunications and information
exchange between systems — Private
Integrated Services Network —
Inter-exchange signalling protocol —
Do Not Disturb and Do Not Disturb
Override supplementary services**

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Réseau privé à intégration de
services — Protocole de signalisation d'interéchange — Services
supplémentaires ne pas déranger et dérogation à ne pas déranger*

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Contents

Foreword	vi
Introduction	vii
1 Scope	1
2 Conformance	1
3 Normative references	1
4 Terms and definitions	2
4.1 External definitions	2
4.2 Other definitions	3
4.2.1 Activating PINX	3
4.2.2 Deactivating PINX	3
4.2.3 Inter-PINX link	3
4.2.4 Interrogating PINX	3
4.2.5 Path retention	3
4.2.6 Served User PINX	3
5 Acronyms	3
6 Signalling protocol for the support of SS-DND and SS-DNDO	3
6.1 SS-DND and SS-DNDO description	3
6.2 SS-DND and SS-DNDO operational requirements	4
6.2.1 Provision/withdrawal	4
6.2.2 Requirements on a Terminating PINX	4
6.2.3 Requirements on an Originating PINX	4
6.2.4 Requirements on an Activating PINX	4
6.2.5 Requirements on a Deactivating PINX	4
6.2.6 Requirements on an Interrogating PINX	4
6.2.7 Requirements on a SS-DND Served User PINX	5
6.2.8 Requirements on a Transit PINX	5
6.3 SS-DND and SS-DNDO coding requirements	6
6.3.1 Operations	6
6.3.2 Notifications	11
6.3.3 Information elements	11
6.3.4 Messages	11
6.4 SS-DND and SS-DNDO state definitions	11
6.4.1 State at the Terminating PINX	11
6.4.2 States at the Originating PINX	12
6.4.3 States at the Activating PINX	12
6.4.4 States at the Deactivating PINX	12
6.4.5 States at the Interrogating PINX	12
6.4.6 State at the SS-DND Served User PINX	12
6.5 SS-DND signalling procedures	12
6.5.1 Actions at the Terminating PINX	12
6.5.2 Actions at the Originating PINX	13
6.5.3 Actions at the Activating PINX	13
6.5.4 Actions at the Deactivating PINX	14

6.5.5	Actions at the Interrogating PINX	14
6.5.6	Actions at the Served User PINX	15
6.5.7	Actions at a Transit PINX	15
6.6	SS-DNDO signalling procedures	15
6.6.1	Actions at the Terminating PINX	15
6.6.2	Actions at the Originating PINX	16
6.6.3	Actions at a Transit PINX	17
6.7	Impact of interworking with public ISDNs	17
6.7.1	SS-DND	17
6.7.2	SS-DNDO	17
6.8	Impact of interworking with non-ISDNs	17
6.8.1	SS-DND	17
6.8.2	SS-DNDO	17
6.9	Protocol interactions between SS-DND and other supplementary services and ANFs	17
6.9.1	Interaction between SS-DND and Calling Name Identification Presentation (SS-CNIP)	18
6.9.2	Interaction between SS-DND and Connected Name Identification Presentation (SS-CONP)	18
6.9.3	Interaction between SS-DND and Call Completion to Busy Subscriber (SS-CCBS)	18
6.9.4	Interaction between SS-DND and Call Completion on No Reply (SS-CCNR)	18
6.9.5	Interaction between SS-DND and Call Transfer (SS-CT)	18
6.9.6	Interaction between SS-DND and Call Forwarding Unconditional (SS-CFU)	18
6.9.7	Interaction between SS-DND and Call Forwarding Busy (SS-CFB)	18
6.9.8	Interaction between SS-DND and Call Forwarding No Reply (SS-CFNR)	18
6.9.9	Interaction between SS-DND and Path Replacement (ANF-PR)	18
6.9.10	Interaction between SS-DND and Call Offer (SS-CO)	18
6.9.11	Interaction between SS-DND and Do Not Disturb Override (SS-DNDO)	18
6.9.12	Interaction between SS-DND and Call Intrusion (SS-CI)	18
6.10	Protocol interactions between SS-DNDO and other supplementary services and ANFs	18
6.10.1	Interaction between SS-DNDO and Calling Name Identification Presentation (SS-CNIP)	19
6.10.2	Interaction between SS-DNDO and Connected Name Identification Presentation (SS-CONP)	19
6.10.3	Interaction between SS-DNDO and Call Completion to Busy Subscriber (SS-CCBS)	19
6.10.4	Interaction between SS-DNDO and Call Completion on No Reply (SS-CCNR)	19
6.10.5	Interaction between SS-DNDO and Call Transfer (SS-CT)	19
6.10.6	Interaction between SS-DNDO and Call Forwarding Unconditional (SS-CFU)	19
6.10.7	Interaction between SS-DNDO and Call Forwarding Busy (SS-CFB)	19
6.10.8	Interaction between SS-DNDO and Call Forwarding No Reply (SS-CFNR)	20
6.10.9	Interaction between SS-DNDO and Path Replacement (ANF-PR)	20
6.10.10	Interaction between SS-DNDO and Call Offer (SS-CO)	20
6.10.11	Interaction between SS-DNDO and Do Not Disturb (SS-DND)	20
6.10.12	Interaction between SS-DNDO and Call Intrusion (SS-CI)	20
6.11	SS-DND and SS-DNDO parameter values (timers)	20
6.11.1	Timer T1	20
6.11.2	Timer T2	20
6.11.3	Timer T3	20
6.11.4	Timer T4	20
Annexes		
A	Signalling protocol for the support of Path Retention	21
B	Protocol Implementation Conformance Statement (PICS) proforma	30
C	Examples of message sequences	41

D - Specification and Description Language (SDL) representation of procedures	46
E - Imported ASN.1 definitions relating to numbers	53
F - ASN.1 definitions according to ITU-T Recs. X.208 / X.209	54

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 14844 was prepared by ECMA (as ECMA-194) 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 second edition cancels and replaces the first edition (ISO/IEC 14844:1996), which has been technically revised.

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 Do Not Disturb (DND) and Do Not Disturb Override (DNDO) supplementary services. 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.

Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Inter-exchange signalling protocol — Do Not Disturb and Do Not Disturb Override supplementary services

1 Scope

This International Standard specifies the signalling protocol for the support of the Do Not Disturb and Do Not Disturb Override supplementary services (SS-DND and SS-DNDO) at the Q reference point between Private Integrated services Network eXchanges (PINXs) connected together within a Private Integrated Services Network (PISN).

SS-DND is a supplementary service which enables a served user to cause the PISN to reject any calls, or just those associated with a specified basic service, addressed to the served user's PISN number. The calling user is given an indication. Incoming calls are rejected as long as the service is active. The served user's outgoing service is unaffected.

SS-DNDO is a supplementary service which enables a served user to override SS-DND at a called number; that is, to allow the call to proceed as if the called user had not activated SS-DND.

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 14842.

The signalling protocols for SS-DND(O) operate on top of the signalling protocol for basic circuit switched call control, as specified in ISO/IEC 11572, and use 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-DND and other supplementary services and ANFs and between SS-DNDO and other supplementary services and ANFs.

NOTE - 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 B.

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 11572:2000, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Circuit mode bearer services - Inter-exchange signalling procedures and protocol*

ISO/IEC 11574:2000, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Circuit-mode 64 kbit/s bearer services - Service description, functional capabilities and information flows*

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 13870:2003, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Call Completion supplementary services*

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 14842:1996, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Specification, functional model and information flows - Do not disturb and do not disturb override supplementary services*

ISO/IEC 14843:2003, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Call Offer supplementary service*

ISO/IEC 14846:2003, *Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Call Intrusion supplementary service*

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)*