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Information technology —
Telecommunications and information
exchange between systems — Private
Integrated Services Network —
Inter-exchange signalling protocol —
Call Priority Interruption and Call Priority
Interruption Protection supplementary
(stervicess iteh.ai)

Technologies de l'information — Télécommunications et échange https://standards.iteh.d'information entre systèmes — Réseau privé à intégration de 7 services — Protocole de signalisation d'échange — Services supplémentaires d'interruption de priorité d'appel et de protection d'interruption de priorité d'appel



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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. DREVIEW

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 15992 was prepared by ECMA (as ECMA-264) and was adopted, under a special "fast-track procedure", by Joint Technical Committee ISO/IEC/I/Information technology; in parallel with its approval by national bodies of ISO and IEC.

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This second edition cancels and replaces the first edition (ISO/IEC 15992:1998), which has been technically revised.

ISO/IEC 15992:2003(E)

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 Call Priority Interruption (CPI) and Call Priority Interruption (CPIP) 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.

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Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Inter-exchange signalling protocol — Call Priority Interruption and Call Priority Interruption Protection supplementary services

1 Scope

This International Standard specifies the signalling protocol for the support of the Call Priority Interruption (SS-CPI) and Call Priority Interruption Protection (SS-CPIP) supplementary services at the Q reference point between Private Integrated services Network eXchanges (PINXs) connected together within a Private Integrated Services Network (PISN).

NOTE 1 - This edition of this International Standard does not apply to calls using the circuit-mode multiple rate bearer service.

SS-CPI allows a call request for a priority call to proceed successfully in the case that there is no user information channel available. This is accomplished by force releasing an established call of lower priority.

SS-CPIP allows for the protection of calls against interruption from priority calls.

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 15991.

The signalling protocol for SS-CPI(P) operates on top of the signalling protocol for basic circuit switched call control, as specified in ISO/IEC 11572, and uses certain aspects of the generic procedures for the control of supplementary services specified in ISO/IEC 11582.

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

NOTE 2 - 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 that 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-CPI(P) 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 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 13869:2003, Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Call Transfer supplementary service

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 13874:2003, Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Path Replacement additional network feature

ISO/IEC 15054:2003, Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Call Interception additional network feature

ISO/IEC 15431:2003, Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Inter-exchange signalling protocol - Wireless terminal call handling additional network features

ISO/IEC 15991:2003, Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Specification, functional model and information flows - Call Priority Interruption and Call Priority Interruption Protection supplementary services

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)

Terms and definitions https://standards.iteh.ai/catalog/standards/sist/fdb4eae3-e799-4fc9-b2d5-7e9b774272bc/iso-iec-15992-2003

For the purposes of this document, the following terms and definitions apply.

4.1 **External definitions**

This International Standard uses the following terms defined in other documents:

_	Adjacent PINX	(ISO/IEC 11582)
-	Application Protocol Data Unit (APDU)	(ISO/IEC 11582)
-	Basic Service	(ITU-T Rec. I.210)
-	Call, Basic Call	(ISO/IEC 11582)
_	Coordination Function	(ISO/IEC 11582)
_	Notification	(ISO/IEC 11582)
_	Originating PINX	(ISO/IEC 11572)
_	Preceding PINX	(ISO/IEC 11572)
-	Private Integrated Services Network (PISN)	(ISO/IEC 11579-1)
_	Private Integrated services Network Exchange (PINX)	(ISO/IEC 11579-1)
_	Signalling	(ITU-T Rec. I.112)
_	Subsequent PINX	(ISO/IEC 11572)
_	Supplementary Service	(ITU-T Rec. I.210)
-	Terminating PINX	(ISO/IEC 11572)
_	Transit PINX	(ISO/IEC 11572)
-	User	(ISO/IEC 11574)

4.2 Called user

The user that receives a request to accept an incoming call and who may request SS-CPIP.

4.3 Calling user

The user that originates a call attempt and who may request SS-CPI and/or SS-CPIP.

Call interruption

An invocation procedure of SS-CPI whereby the calling user indicates that a "priority call" is to be made.

4.5 Call Priority Interruption Capability Level (CPICL)

A parameter indicating the priority of a call.

Call Priority Interruption Protection Level (CPIPL)

A parameter indicating a level of protection of a call against interruption from other calls.

4.7 Call protection

An invocation procedure of SS-CPIP whereby the calling user or the called user indicates that a call is to be protected.

Established call

The active call that is selected for interruption.

4.9 Established call user

A user in the established call.

4.10 Established call user's PINX STANDARD PREVIEW The PINX serving one of the users in the established call.

4.11 Forced release

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The release of the established call during interruption.

Inter-PINX link https://standards.iteh.ai/catalog/standards/sist/fdb4eae3-e799-4fc9-b2d5-

The totality of a signalling channel and a number of liser information channels at the Q reference point.

4.13 **Interrupting PINX**

The PINX that selects an established call for interruption.

NOTE 3 - The Originating PINX or any Transit PINX involved in a call may also be an Interrupting PINX.

4.14 Non-priority call

A call that has not been assigned a CPICL value.

4.15 **Priority call**

A call that has a CPICL value greater than zero.

NOTE 4 - A priority call may also be a protected call.

4.16 **Protected call**

A call that has a CPIPL value greater than zero.

NOTE 5 - A protected call may also be a priority call.

5 List of acronyms

ANF	Additional Network Feature
APDU	Application Protocol Data Unit
ASN.1	Abstract Syntax Notation no. 1

CPICL Call Priority Interruption Capability Level **CPIPL** Call Priority Interruption Protection Level Integrated Services Digital Network **ISDN**

NFE **Network Facility Extension**

PICS Protocol Implementation Conformance Statement **PINX** Private Integrated services Network eXchange

PISN Private Integrated Services Network
SDL Specification and Description Language

SS-CPI Call Priority Interruption Supplementary Service

SS-CPIP Call Priority Interruption Protection Supplementary Service

6 Signalling protocol for the support of SS-CPI(P)

6.1 SS-CPI(P) description

SS-CPI is a supplementary service that allows a call request for a priority call to proceed successfully in the case that there is no user information channel available. SS-CPI may be invoked by the calling user.

SS-CPIP is a supplementary service that allows for the protection of calls against interruption. SS-CPIP may be invoked by either the calling user or the called user.

A priority interruption only occurs if the call originating from the calling user has a higher Call Priority Interruption Capability Level (CPICL) than the Call Priority Interruption Protection Level (CPIPL) of at least one of the established calls on the selected inter-PINX link.

SS-CPI(P) is applicable to all circuit mode basic services defined in ISO/IEC 11574.

6.2 SS-CPI(P) operational requirements

6.2.1 Requirements on the Originating PINX

Call establishment procedures for the outgoing side of an inter-PINX link and call release procedures, as specified in ISO/IEC 11572, shall apply.

Generic procedures for the call-related control of supplementary services, as specified in ISO/IEC 11582 for an End PINX, shall apply.

6.2.2 Requirements on the Terminating PINX standards.iteh.ai)

Call establishment procedures for the incoming side of an inter-PINX link and call release procedures, as specified in ISO/IEC 11572, shall apply.

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For the support of SS-CPIP, generic procedures for the call related control of supplementary services, as specified in ISO/IEC 11582 for an End PINX, shall apply.

6.2.3 Requirements on a Transit PINX

Basic call procedures, as specified in ISO/IEC 11572 for a Transit PINX, shall apply.

Generic procedures for the call-related control of supplementary services, as specified in ISO/IEC 11582 for a Transit PINX, shall apply. In addition, for the support of SS-CPI, the generic procedures for notification, as specified in ISO/IEC 11582 shall apply.

6.2.4 Requirements on the Interrupting PINX

Call establishment procedures for the outgoing side of an inter-PINX link and call release procedures, as specified in ISO/IEC 11572, shall apply.

Generic procedures for the call-related control of supplementary services, as specified in ISO/IEC 11582 for both an End PINX and a Transit PINX, shall apply. In addition, the generic procedures for notification, as specified in ISO/IEC 11582 shall apply.

6.2.5 Requirements on the Established call user's PINX

Generic procedures for notification, as specified in ISO/IEC 11582 for a Receiving End PINX, shall apply.

6.3 SS-CPI(P) coding requirements

6.3.1 Operations

The operations defined in Abstract Syntax Notation number 1 (ASN.1) in table 1 shall apply. The notation is in accordance with ITU-T Rec. X.680 and X.690. The ITU-T Rec. X.208 and X.209 superseded version is in annex D.

Table 1 - Operations in support of SS-CPI(P)

Call-Interruption-Operations-asn1-97 (iso (1) standard (0) pss1-call-interruption (15992) call-interruption-operations-asn1-97 (2) **DEFINITIONS EXPLICIT TAGS::= BEGIN IMPORTS OPERATION FROM Remote-Operations-Information-Objects** {joint-iso-itu-t (2) remote-operations (4) informationObjects (5) version1 (0)} EXTENSION, Extension{} FROM Manufacturer-specific-service-extension-class-asn1-97 (iso (1) standard (0) pss1-generic-procedures (11582) msi-class-asn1-97 (11)}; -- The following operations are defined: Call-Interruption-Operations OPERATION ::= { callInterruptionRequest | callProtectionRequest } OPERATION ::= { callInterruptionRequest ds GPIRequestArg RETURN RESULT ARGUMENT **FALSE ALWAYS RESPONDS FALSE** ISO/IEC 1599local387} CODE https://standards.iteh.ai/catalog/standards/sist/fdb4eae3-e799-4fc9-b2d5callProtectionRequest OPERATION 4.27 1 bc/iso-iec-15992-2003 CPIPRequestArg ARGUMENT RETURN RESULT **FALSE ALWAYS RESPONDS FALSE** CODE local: 88} -- The following arguments are defined: **CPIRequestArg** SEQUENCE{ ::= cpiCapabilityLevel CPICapabilityLevel, argumentExtension CHOICE{ [1] IMPLICIT Extension{{CPIPExtSet}}, extension sequenceOfExtn [2] IMPLICIT SEQUENCE OF Extension{{CPIPExtSet}}} OPTIONAL} **CPIPRequestArg** SEQUENCE{ ::= cpiProtectionLevel CPIProtectionLevel, argumentExtension CHOICE{ [1] IMPLICIT Extension{{CPIPExtSet}}, extension [2] IMPLICIT SEQUENCE OF sequenceOfExtn Extension{{CPIPExtSet}}} OPTIONAL}

Table 1 - Operations in support of SS-CPI(P) (concluded)

CPICapabilityLevel ::= ENUMERATED{

interruptionLowPriority (1),
interruptionMediumPriority (2),
interruptionHighPriority (3)}

CPIProtectionLevel ::= ENUMERATED{

noProtection (0), lowProtection (1), mediumProtection (2), totalProtection (3)}

CPIPExtSet EXTENSION ::= {...}

END -- of Call-Interruption-Operations-asn1-97

6.3.2 Notifications

The following notifications, defined in Abstract Syntax Notation number 1 (ASN.1) in table 2 shall apply.

Table 2 - Notifications in support of SS-CPI(P)

Call-Interruption-Notifications-asn1-97

{iso (1) standard (0) pss1-call-interruption (15992) call-interruption-notifications-asn1 (3) }

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DEFINITIONS

BEGIN (standards.iteh.ai)

IMPORTS NOTIFICATION FROM Notification-Data-Structure-asn1-97

(iso (1) standard (0) pss1-generic-procedures (11582) notification-data-structure-asn1-97 (18));

https://standards.iteh.ai/catalog/standards/sist/fdb4eae3-e799-4fc9-b2d5-

-- The following notifications are defined?b774272bc/iso-iec-15992-2003

Call-Interruption-Notifications NOTIFICATION ::= {interruptionIsImpending | interruptionTerminated |

interruptionForcedRelease}

interruptionIsImpending NOTIFICATION ::= {

ARGUMENT NULL CODE local: 2008}

interruptionTerminated NOTIFICATION ::= {

ARGUMENT NULL CODE local: 2009}

interruptionForcedRelease NOTIFICATION ::= {

ARGUMENT NULL CODE local: 2010}

END --of Call-Interruption-Notifications-asn1-97

6.3.3 Information elements

6.3.3.1 Facility information element

The operations defined above shall be coded in the Facility information element in accordance with ISO/IEC 11582.

When conveying an APDU of operation callInterruptionRequest or operation callProtectionRequest the NFE shall be included and shall contain value anyTypeOfPINX.

When conveying the invoke APDU of operation callInterruptionRequest or operation callProtectionRequest the Interpretation APDU shall be included and shall contain value discardAnyUnrecognisedInvokePdu.

6.3.3.2 Notification indicator information element

The notifications defined above shall be coded in the Notification indicator information element in accordance with ISO/IEC 11582.

6.3.3.3 Other information elements

Any other information elements (e.g., Progress indicator) shall be coded in accordance with the rules of ISO/IEC 11572.

6.3.4 Messages

Messages used for call establishment and release shall be as specified in ISO/IEC 11572.

The Facility information element and the Notification indicator information element shall be conveyed in the messages as specified in clause 10 of ISO/IEC 11582.

6.4 SS-CPI state definitions

6.4.1 States at the Originating PINX

The procedures for the Originating PINX are written in terms of the following conceptual states existing within the SS-CPI Supplementary Service Control entity in that PINX in association with a particular call.

6.4.1.1 State CPI-Idle

SS-CPI is not operating.

6.4.2 States at the Transit PINX

The procedures for the Transit PINX are written in terms of the following conceptual states existing within the SS-CPI Supplementary Service Control functional entity in that PINX in association with a particular call.

6.4.2.1 State CPI-Idle

SS-CPI is not operating.

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6.4.3 States at the Interrupting PINX

The procedures for the Interrupting PINX are written in terms of the following conceptual states existing within the SS-CPI Supplementary Service Control functional entity in that PINX in association with a particular call.

6.4.3.1 State CPI-Idle

SS-CPI is not operating.

6.4.3.2 State CPI-Impending

Following invocation of call interruption, the Interrupting PINX has notified an impending interruption to the users in the established call and is waiting for the end of the impending phase before starting interruption.

6.4.3.3 State CPI-Releasing

The Interrupting PINX has forced released the established call and is waiting for completion of the clearing process.

6.5 SS-CPIP state definitions

6.5.1 States at the Originating PINX

The procedures for the Originating PINX are written in terms of the following conceptual states existing within the SS-CPIP Supplementary Service Control entity in that PINX in association with a particular call.

6.5.1.1 State CPIP-Idle

SS-CPIP is not operating.

6.5.2 States at the Transit PINX

The procedures for the Transit PINX are written in terms of the following conceptual states existing within the SS-CPIP Supplementary Service Control functional entity in that PINX in association with a particular call.

6.5.2.1 State CPIP-Idle

SS-CPIP is not operating.

6.5.3 States at the Terminating PINX

The procedures for the Terminating PINX are written in terms of the following conceptual states existing within the SS-CPIP Supplementary Service Control functional entity in that PINX in association with a particular call.