## ISO/IEC 15992:2003-04 (E)

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

## Contents

Forewo	ord	v
Introdu	uction	vi
1	Scope	1
2	Conformance	1
3	Normative references	1
4	Terms and definitions	2
$\begin{array}{c} 4.1 \\ 4.2 \\ 4.3 \\ 4.4 \\ 4.5 \\ 4.6 \\ 4.7 \\ 4.8 \\ 4.9 \\ 4.10 \\ 4.11 \\ 4.12 \\ 4.13 \\ 4.14 \\ 4.15 \\ 4.16 \end{array}$	External definitions Called user Calling user Call interruption Call Priority Interruption Capability Level (CPICL) Call Priority Interruption Protection Level (CPIPL) Call protection Established call Established call user Established call user Established call user's PINX Forced release Inter-PINX link Interrupting PINX Non-priority call Priority call Protected call	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
5	List of acronyms	3
6	Signalling protocol for the support of SS-CPI(P)	4
6.1 6.2	SS-CPI(P) description SS-CPI(P) operational requirements	4 4
<ul> <li>6.2.1</li> <li>6.2.2</li> <li>6.2.3</li> <li>6.2.4</li> <li>6.2.5</li> </ul>	Requirements on the Originating PINX Requirements on the Terminating PINX Requirements on a Transit PINX Requirements on the Interrupting PINX Requirements on the Established call user's PINX	4 4 4 4
6.3	SS-CPI(P) coding requirements	5
6.3.1 6.3.2 6.3.3 6.3.4	Operations Notifications Information elements Messages	5 6 6 7
6.4	SS-CPI state definitions	7
6.4.1 6.4.2 6.4.3	States at the Originating PINX States at the Transit PINX States at the Interrupting PINX	7 7 7
6.5	SS-CPIP state definitions	7
6.5.1 6.5.2 6.5.3	States at the Originating PINX States at the Transit PINX States at the Terminating PINX	7 7 7

6.6 6.7 6.8	SS-CPI signalling procedures for activation, deactivation and registration SS-CPIP signalling procedures for activation, deactivation and registration SS-CPI signalling procedures for invocation and operation	8 8 8
6.8.1 6.8.2 6.8.3 6.8.4 6.8.5	Actions at the Originating PINX Actions at a Transit PINX Actions at the Interrupting PINX Actions at the Terminating PINX Actions at the Established call user's PINX	8 8 9 10 10
6.9	SS-CPIP signalling procedures for invocation and operation	10
6.9.1 6.9.2 6.9.3	Actions at the Originating PINX Actions at a Transit PINX Actions at the Terminating PINX	10 10 11
6.10 6.11 6.12 6.13 6.14	SS-CPI impact of interworking with public ISDNs SS-CPIP impact of interworking with public ISDNs SS-CPI impact of interworking with non-ISDNs SS-CPIP impact of interworking with non-ISDNs Protocol interactions between SS-CPI(P) and other supplementary services and ANFs	11 11 11 12 12
$\begin{array}{c} 6.14.2 \\ 6.14.3 \\ 6.14.4 \\ 6.14.5 \\ 6.14.5 \\ 6.14.6 \\ 6.14.7 \\ 6.14.8 \\ 6.14.9 \\ 6.14.10 \\ 6.14.11 \\ 6.14.12 \\ 6.14.13 \\ 6.14.14 \\ 6.14.15 \\ 6.14.16 \\ 6.14.17 \end{array}$	Interaction with Calling Name Identification Presentation (SS-CNIP) Interaction with Connected Name Identification Presentation (SS-CONP) Interaction with Completion of Call to Busy Subscriber (SS-CCBS) Interaction with Completion of Call on No Reply (SS-CCNR) Interaction with Call Transfer (SS-CT) Interaction with Call Forwarding Unconditional (SS-CFU) Interaction with Call Forwarding Busy (SS-CFB) Interaction with Call Forwarding No Reply (SS-CFNR) Interaction with Call Deflection (SS-CD) Interaction with Call Deflection (SS-CD) Interaction with Path Replacement (ANF-PR) Interaction with Call Offer (SS-CO) Interaction with Call Intrusion (SS-CI) Interaction with Do not Disturb (SS-DND) Interaction with Do not Disturb (SS-DND) Interaction with Advice of Charge (SS-AOC) Interaction with Recall (SS-RE) Interaction with Call Interception (ANF-CINT) Interaction with Call Interception (ANF-TC)	12 12 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13
6.14.19 6.14.20 6.14.21 6.14.22 6.14.23 6.14.24	Interaction with Wireless Terminal Location Registration (SS-WTLR) Interaction with Wireless Terminal Incoming Call (ANF-WTMI) Interaction with Wireless Terminal Outgoing Call (ANF-WTMO) Interaction with Wireless Terminal Authentication of a WTM user (SS-WTAT) Interaction with Wireless Terminal Authentication of a PISN (SS-WTAT) Interaction with Message Waiting Indication (SS-MWI) Interaction with Common Information (ANF-CMN)	14 14 14 14 14 14 14
6.15	SS-CPI parameter values (timers)	14
6.15.1	Timer T1	14
Annexe	s	
A - Prot	tocol Implementation Conformance Statement (PICS) proforma	15
<b>B</b> - Examples of message sequences		
C - Specification and Description Language (SDL) representation of procedures		
<b>D</b> - ASN.1 definitions according to ITU-T Recs. X.208 / X.209		