

# ISO/IEC 14846:2003-04 (E)

Information technology — Telecommunications and information exchange between systems —  
Private Integrated Services Network — Inter-exchange signalling protocol —  
Call Intrusion supplementary service

---

## 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	3
4.2.1 Busy	3
4.2.2 Conference type connection	3
4.2.3 Impending intrusion warning notification	3
4.2.4 Isolation	3
4.2.5 Path retention	3
4.2.6 Served User PINX	3
4.2.7 Wanted user	3
4.2.8 Unwanted user	3
4.2.9 Unwanted User PINX	3
4.2.10 Wait on busy	3
5 Acronyms	3
6 Signalling protocol for the support of SS-CI	4
6.1 SS-CI description	4
6.2 SS-CI operational requirements	4
6.2.1 Requirements on an Originating PINX	4
6.2.2 Requirements on a Terminating PINX	4
6.2.3 Requirements on a Transit PINX	4
6.2.4 Requirements on an Unwanted User PINX	4
6.3 SS-CI coding requirements	5
6.3.1 Operations	5
6.3.2 Notifications	8
6.3.3 Information elements	8
6.3.4 Messages	9
6.4 SS-CI state definitions	9
6.4.1 States at the Originating PINX	9
6.4.2 States at the Terminating PINX	9
6.5 SS-CI signalling procedures for activation, deactivation and registration	10
6.6 SS-CI signalling procedures for invocation and operation	10
6.6.1 Actions at the Originating PINX	10
6.6.2 Actions at the Terminating PINX	12
6.6.3 Actions at the Unwanted User PINX	16
6.6.4 Actions at a Transit PINX	16
6.7 SS-CI impact of interworking with public ISDNs	16
6.8 SS-CI impact of interworking with non-ISDNs	16
6.9 Protocol interactions between SS-CI and other supplementary services and ANFs	16

<b>6.9.1</b>	Interaction with Calling Name Identification Presentation (SS-CNIP)	<b>16</b>
<b>6.9.2</b>	Interaction with Connected Name Identification Presentation (SS-CONP)	<b>16</b>
<b>6.9.3</b>	Interaction with Call Completion to Busy Subscriber (SS-CCBS)	<b>17</b>
<b>6.9.4</b>	Interaction with Call Completion on No Reply (SS-CCNR)	<b>17</b>
<b>6.9.5</b>	Interaction with Call Transfer (SS-CT)	<b>17</b>
<b>6.9.6</b>	Interaction with Call Forwarding Unconditional (SS-CFU)	<b>17</b>
<b>6.9.7</b>	Interaction with Call Forwarding Busy (SS-CFB)	<b>17</b>
<b>6.9.8</b>	Interaction with Call Forwarding No Reply (SS-CFNR)	<b>18</b>
<b>6.9.9</b>	Interaction with Call Deflection (SS-CD)	<b>18</b>
<b>6.9.10</b>	Interaction with Path Replacement (ANF-PR)	<b>18</b>
<b>6.9.11</b>	Interaction with Call Offer (SS-CO)	<b>19</b>
<b>6.9.12</b>	Interaction with Do Not Disturb (SS-DND)	<b>19</b>
<b>6.9.13</b>	Interaction with Do Not Disturb Override (SS-DNDO)	<b>19</b>
<b>6.10</b>	SS-CI parameter values (timers)	<b>19</b>
<b>6.10.1</b>	Timer T1	<b>19</b>
<b>6.10.2</b>	Timer T2	<b>20</b>
<b>6.10.3</b>	Timer T3	<b>20</b>
<b>6.10.4</b>	Timer T4	<b>20</b>
<b>6.10.5</b>	Timer T5	<b>20</b>
<b>6.10.6</b>	Timer T6	<b>20</b>
<b>Annexes</b>		
<b>A</b>	Signalling protocol for the support of Path Retention	<b>21</b>
<b>B</b>	Protocol Implementation Conformance Statement (PICS) proforma	<b>30</b>
<b>C</b>	Examples of message sequences	<b>39</b>
<b>D</b>	Specification and Description Language (SDL) representation of procedures	<b>47</b>
<b>E</b>	Imported ASN.1 definitions	<b>60</b>
<b>F</b>	ASN.1 definitions according to ITU-T Recs. X.208 / X.209	<b>61</b>