

ISO/IEC 13873:2003-04 (E)

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

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 Activating PINX	3
4.2.2 Busy	3
4.2.3 Connected number	3
4.2.4 Deactivating PINX	3
4.2.5 Diversion	3
4.2.6 Diverted-to number	3
4.2.7 Diverted-to PINX	3
4.2.8 Diverted-to user	3
4.2.9 Diverting cause	3
4.2.10 Diverting number	3
4.2.11 Forwarding	3
4.2.12 Forward switching	3
4.2.13 Interrogating PINX	3
4.2.14 Last diverting user	3
4.2.15 Original called number	3
4.2.16 Original called user	3
4.2.17 Partial rerouteing	4
4.2.18 Presentation indicator	4
4.2.19 Rerouteing	4
4.2.20 Rerouteing PINX	4
4.2.21 Served user	4
4.2.22 User A	4
4.2.23 User B	4
4.2.24 User B1, user B2, user B3, etc.	4
4.2.25 User C	4
5 Acronyms	4
6 Signalling protocol for the support of SS-DIV	5
6.1 SS-DIV description	5
6.2 SS-DIV operational requirements	5
6.2.1 Provision/withdrawal	5
6.2.2 Requirements on the Originating PINX	6
6.2.3 Requirements on the Served User PINX	6
6.2.4 Requirements on the Diverted-to PINX	6
6.2.5 Requirements on the Rerouteing PINX	6
6.2.6 Requirements on a Transit PINX	6
6.2.7 Requirements on the Activating PINX	7
6.2.8 Requirements on the Deactivating PINX	7
6.2.9 Requirements on the Interrogating PINX	7

6.3	SS-DIV coding requirements	
6.3.1	Operations	
6.3.2	Information elements	14
6.3.3	Messages	14
6.4	SS-DIV state definitions	14
6.4.1	States at the Originating PINX	14
6.4.2	States at the Served User PINX	14
6.4.3	States at the Diverted-to PINX	15
6.4.4	States at the Rerouteing PINX	15
6.4.5	States at the Activating PINX	15
6.4.6	States at the Deactivating PINX	15
6.4.7	States at the Interrogating PINX	15
6.5	SS-DIV Signalling procedures	15
6.5.1	Actions at the Originating PINX	15
6.5.2	Actions at a Transit PINX	16
6.5.3	Actions at the Served User PINX	16
6.5.4	Actions at the Rerouteing PINX	19
6.5.5	Actions at the Diverted-to PINX	21
6.5.6	Actions at the Activating PINX	21
6.5.7	Actions at the Deactivating PINX	22
6.5.8	Actions at the Interrogating PINX	22
6.6	SS-DIV Impact of interworking with public ISDNs	22
6.6.1	Impact of interworking on incoming calls	23
6.6.2	Impact of interworking on outgoing calls	23
6.7	SS-DIV Impact of interworking with non-ISDNs	23
6.7.1	Impact of interworking on incoming calls	23
6.7.2	Impact of interworking on outgoing calls	24
6.8	Protocol interactions between SS-DIV and other SSs and ANFs	24
6.8.1	Protocol interactions of Call Forwarding Unconditional (SS-CFU)	24
6.8.2	Protocol interactions of Call Forwarding Busy (SS-CFB)	25
6.8.3	Protocol interactions of Call Forwarding No Reply (SS-CFNR)	26
6.8.4	Protocol interactions of Call Deflection (SS-CD)	28
6.9	SS-DIV parameter values (timers)	28
6.9.1	Timer T1	28
6.9.2	Timer T2	28
6.9.3	Timer T3	28
6.9.4	Timer T4	28
6.9.5	Timer T5	28
Annexes		
A	Protocol Implementation Conformance Statement (PICS) proforma	29
B	Imported ASN.1 definitions	40
C	Specification and Description Language (SDL) representation of procedures	41
D	Examples of message sequences	55
E	Bibliography	67
F	ASN.1 definitions according to ITU-T Recs. X.208 / X.209	68