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**