ISO/IEC 13874:2003-04 (E)

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

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	**2**
4.2.1	Branching PINX	**2**
4.2.2	Cooperating PINX	**3**
4.2.3	End PINX	**3**
4.2.4	Preceding PINX	**3**
4.2.5	Replaced connection	**3**
4.2.6	Requesting PINX	**3**
4.2.7	Retained connection	**3**
4.2.8	Subsequent PINX	**3**
4.2.9	Inviting PINX	**3**
5	List of acronyms	**3**
6	Signalling protocol for the support of ANF-PR	**3**
6.1	ANF-PR description	**3**
6.2	ANF-PR operational requirements	**4**
6.2.1	Requirements on the Cooperating PINX	**4**
6.2.2	Requirements on the Requesting PINX	**4**
6.2.3	Requirements on a Transit PINX	**4**
6.2.4	Requirements on the Inviting PINX	**5**
6.3	ANF-PR coding requirements	**6**
6.3.1	Operations	**6**
6.3.2	Information elements	**9**
6.3.3	Messages	**10**
6.4	ANF-PR state definitions	**10**
6.4.1	States at the Requesting PINX	**10**
6.4.2	States at the Cooperating PINX	**10**
6.4.3	States at a Transit PINX on the retained path, including the branching PINX	**11**
6.4.4	States at the Inviting PINX	**11**
6.5	ANF-PR signalling procedures	**11**
6.5.1	Actions at the Requesting PINX	**11**
6.5.2	Actions at the Cooperating PINX	**12**
6.5.3	Actions at a Cooperating/Requesting PINX in the case of a trombone connection	**13**
6.5.4	Actions at a Transit PINX	**13**
6.5.5	Actions at Inviting PINX	**13**
6.6	ANF-PR optional signalling procedures for retention of part of the old connection	**14**
6.6.1	Actions at the Requesting PINX	**14**

6.6.2 Actions at the Cooperating PINX **14**
6.6.3 Actions at a Transit PINX on the retained connection **14**
6.6.4 Actions at a Transit PINX on the new connection or replaced connection **16**
6.6.5 Actions at Inviting PINX on the retained connection **16**

6.7 ANF-PR impact of interworking with public ISDNs **16**
6.8 ANF-PR impact of interworking with non-ISDNs **16**
6.9 Protocol interactions between ANF-PR and other supplementary services and ANFs **16**

6.9.1 Interaction with Calling Name Identification Presentation (SS-CNIP) **16**
6.9.2 Interaction with Connected Name Identification Presentation (SS-CONP) **16**
6.9.3 Interaction with Completion of Calls to Busy Subscriber (SS-CCBS) **17**
6.9.4 Interaction with Completion of Calls on No Reply (SS-CCNR) **17**
6.9.5 Interaction with Call Transfer (SS-CT) **17**
6.9.6 Interaction with Call Forwarding Unconditional (SS-CFU) **18**
6.9.7 Interaction with Call Forwarding Busy (SS-CFB) **18**
6.9.8 Interaction with Call Forwarding No Reply (SS-CFNR) **18**
6.9.9 Interaction with Call Deflection (SS-CD) **18**

6.10 ANF-PR parameter values (timers) **18**

6.10.1 Timer T1 **18**
6.10.2 Timer T2 **18**
6.10.3 Timer T3 **18**
6.10.4 Timer T4 **19**

Annexes

A - Protocol Implementation Conformance Statement (PICS) proforma **20**

B - Imported ASN.1 definitions **27**

C - Examples of message sequences **28**

D - Specification and Description Language (SDL) representation of procedures **36**

E - ASN.1 definitions according to ITU-T Recs. X.208 / X.209 **42**