

# ISO/IEC 15772:2003-04 (E)

## Information technology — Telecommunications and information exchange between systems — Private Integrated Services Network — Inter-exchange signalling protocol — Common Information 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
5 List of acronyms	3
6 Signalling protocol for the support of ANF-CMN	3
6.1 ANF-CMN description	3
6.2 ANF-CMN operational requirements	3
6.2.1 Requirements on an Originating PINX	3
6.2.2 Requirements on a Terminating PINX	3
6.2.3 Requirements on a Transit PINX	3
6.3 ANF-CMN coding requirements	4
6.3.1 Operations	4
6.3.2 Notifications	6
6.3.3 Information elements	7
6.3.4 Messages	7
6.4 ANF-CMN State definitions	7
6.4.1 States at the Originating PINX	7
6.4.2 States at the Terminating PINX	7
6.5 ANF-CMN Signalling procedures for activation, deactivation and registration	7
6.6 ANF-CMN Signalling procedures for invocation and operation	7
6.6.1 Actions at the Originating PINX	7
6.6.2 Actions at the Terminating PINX	8
6.6.3 Actions at a Transit PINX	9
6.7 ANF-CMN Impact of interworking with public ISDNs	9
6.8 ANF-CMN Impact of interworking with non-ISDNs	9
6.9 Protocol interactions between ANF-CMN and other supplementary services and ANFs	9
6.9.1 Interactions with Calling Name Identification Presentation (CNIP)	9
6.9.2 Interactions with Connected Name Identification Presentation (CONP)	9
6.9.3 Interactions with Call Forwarding Unconditional (CFU)	9
6.9.4 Interactions with Call Forwarding Busy (CFB)	10
6.9.5 Interactions with Call Forwarding No Reply (CFNR)	10
6.9.6 Interactions with Call Deflection (CD)	10
6.9.7 Interactions with Call Transfer (CT)	10
6.9.8 Interactions with Completion of Call on Busy Subscriber (CCBS)	10
6.9.9 Interactions with Completion of Call on No Reply (CCNR)	10
6.9.10 Interactions with Call Intrusion (CI)	10
6.9.11 Interactions with Call Offer (CO)	10
6.9.12 Interactions with Do Not Disturb (DND)	10
6.9.13 Interactions with Do Not Disturb Override (DNDO)	10

<b>6.9.14</b>	Interactions with Call Interception (CINT)	<b>10</b>
<b>6.9.15</b>	Interactions with Advice Of Charge (AOC)	<b>11</b>
<b>6.9.16</b>	Interactions with Message Waiting Indication (MWI)	<b>11</b>
<b>6.9.17</b>	Interactions with Path Replacement (PR)	<b>11</b>
<b>6.9.18</b>	Interactions with Recall (RE)	<b>11</b>
<b>6.9.19</b>	Interactions with Wireless Terminal Mobility, Outgoing call (WTMO)	<b>11</b>
<b>6.9.20</b>	Interactions with Wireless Terminal Mobility, Incoming call (WTMI)	<b>11</b>
<b>6.9.21</b>	Interactions with Wireless Terminal, Location Registration (WTLR)	<b>11</b>
<b>6.9.22</b>	Interactions with Wireless Terminal, Authentication (WTAN, WTAT)	<b>11</b>
<b>6.9.23</b>	Interactions with Transit Counter (TC)	<b>11</b>
<b>6.10</b>	ANF-CMN Parameter values (timers)	<b>11</b>
<b>Annexes</b>		
<b>A</b>	Protocol Implementation Conformance Statement (PICS) proforma	<b>12</b>
<b>B</b>	Examples of message sequences	<b>19</b>
<b>C</b>	Specification and Description Language (SDL) representation of procedures	<b>23</b>
<b>D</b>	ASN.1 definitions according to ITU-T Recs. X.208 / X.209	<b>27</b>