

ECMA

Standardizing Information and Communication Systems

Private Integrated Services Network (PISN) - Specification, Functional Model and Information Flows - Common Information Additional Network Feature

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(ANF-CMNSD)

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Brief History

This Standard is one of a series of ECMA standards defining services and signalling protocols applicable to Private Integrated Services Networks. The series uses the ISDN concepts as developed by ITU-T (formerly CCITT) and is also within the framework of standards for open systems interconnection as defined by ISO. It has been produced under ETSI work item DE/ECMA-00070.

This Standard specifies the Common Information additional network feature.

The Standard is based upon the practical experience of ECMA member companies and the results of their active and continuous participation in the work of ISO/IEC JTC1, ITU-T, ETSI and other international and national standardization bodies. It represents a pragmatic and widely based consensus.

There is currently no equivalent feature specified by ITU-T or ETSI for public ISDNs.

Compared to the 1st Edition of Standard ECMA-250 (published by ECMA in December 1996), this 2nd Edition incorporates changes to achieve complete alignment with International Standard ISO/IEC 15771:1998(E) published by ISO/IEC in November 1998.

Adopted as 2nd Edition of Standard ECMA-250 by the General Assembly of December 1998.

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Table of contents

1 Scope	1
2 Conformance	1
3 References (normative)	1
4 Definitions	1
4.1 External definitions	1
4.2 Additional Network Feature	2
4.3 ANF-CMN User	2
4.4 Backward direction	2
4.5 Call, Basic Call	2
4.6 Common Information	2
4.7 Feature Identifier	2
4.8 Forward direction	2
4.9 Equipment Identity	2
4.10 Node Identity	3
4.11 Group Identity	3
4.12 Unit Identity	3
4.13 Party Category	3
5 List of acronyms	3
6 ANF-CMN stage 1 specification	3
6.1 Description	3
6.1.1 General description	3
6.1.2 Qualifications on Applicability to Telecommunication Services	4
6.2 Procedures	4
6.2.1 Provision/Withdrawal	4
6.2.2 Normal procedures	4
6.2.3 Exceptional procedures	4
6.3 Interactions with other Supplementary Services and ANFs	4
6.3.1 Calling Line Identification Presentation (CLIP)	4
6.3.2 Connected Line Identification Presentation (COLP)	4
6.3.3 Calling/Connected Line Identification Restriction (CLIR)	4
6.3.4 Calling Name Identification Presentation (CNIP)	4
6.3.5 Connected Name Identification Presentation (CONP)	4
6.3.6 Calling/Connected Name Identification Restriction (CNIR)	4
6.3.7 Call Forwarding Unconditional (CFU)	5
6.3.8 Call Forwarding Busy (CFB)	5
6.3.9 Call Forwarding No Reply (CFNR)	5
6.3.10 Call Deflection (CD)	5
6.3.11 Call Transfer (CT)	5

6.3.12 Completion of Calls to Busy Subscriber (CCBS)	5
6.3.13 Completion of Calls on No Reply (CCNR)	5
6.3.14 Call Intrusion (CI)	5
6.3.15 Call Offer (CO)	5
6.3.16 Do Not Disturb (DND)	5
6.3.17 Do Not Disturb Override (DNDO)	5
6.3.18 Call Interception (CINT)	5
6.3.19 Advice Of Charge (AOC)	5
6.3.20 Message Waiting Indication (MWI)	5
6.3.21 Path Replacement (PR)	5
6.3.22 Recall (RE)	5
6.3.23 Cordless Terminal Mobility, Outgoing call (CTMO)	6
6.3.24 Cordless Terminal Mobility, Incoming call (CTMI)	6
6.3.25 Cordless Terminal, Location Registration (CTLR)	6
6.3.26 Cordless Terminal, Authentication (CTAN, CTAT)	6
6.3.27 Transit Counter (TC)	6
6.4 Interworking considerations	6
6.5 Overall SDL	6
7 ANF-CMN stage 2 specification	8
7.1 Functional Model	8
7.1.1 Functional Model Description	8
7.1.2 Description of Functional Entities	8
7.1.3 Relationship of Functional Model to Basic Call Functional Model	8
7.2 Information Flows	9
7.2.1 Definition of Information Flows	9
7.2.2 Relationship of Information Flows to Basic Call Information Flows	12
7.2.3 Information Flow Sequences	12
7.3 Functional entity actions	14
7.3.1 Functional entity actions of FE1	14
7.3.2 Functional entity actions of FE2	14
7.4 Functional entity behaviour	14
7.4.1 Behaviour of FE1	15
7.4.2 Behaviour of FE2	16
7.5 Allocation of Functional Entities to Physical Equipment	16
7.6 Interworking considerations	16
Annex A - Party category and Equipment Identity	19

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1 Scope

This Standard specifies the additional network feature Common Information (ANF-CMN), which is applicable to various basic services supported by Private Integrated Services Networks (PISN). Basic services are specified in ECMA-142.

ANF-CMN is an additional network feature which enables the exchange of Common Information between entities acting on behalf of the two ends of a connection through a PISN. This Common Information is a collection of miscellaneous information that relates to the user or equipment at one end of a connection and includes one or more of the following: Feature Identifiers, Party Category, Equipment Identity. This information, when received by an entity, can be used for any purpose, e.g. as the basis for indications to the local user or to another network or in order to filter feature requests.

Additional network feature specifications are produced in three stages, according to the method described in ETS 300 387. This Standard contains the stage 1 and stage 2 specifications of ANF-CMN. The stage 1 specification (clause 6) specifies the additional network feature as seen by users of the feature. The stage 2 specification (clause 7) identifies the functional entities involved in the additional network feature and the information flows between them.

2 Conformance

In order to conform to this Standard, a stage 3 standard shall specify signalling protocols and equipment behaviour that are capable of being used in a PISN which supports the additional network feature specified in this Standard. This means that, to claim conformance, a stage 3 standard is required to be adequate for the support of those aspects of clause 6 (stage 1) and clause 7 (stage 2) which are relevant to the interface or equipment to which the stage 3 standard applies.

3 References (normative)

The following standards contain provisions which, through reference in this text, constitute provision of this Standard. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

In the case of references to ECMA Standards that are aligned with ISO/IEC International Standards, the number of the appropriate ISO/IEC International Standard is given in brackets after the ECMA reference.

ECMA-133	Private Integrated Services Network - Reference Configuration for PISN Exchanges (PINX) (International Standard ISO/IEC 11579-1)
ECMA-142	Private Integrated Services Network (PISN) - Circuit-mode 64 kbit/s bearer services - Service description, functional capabilities and information flows (International Standard ISO/IEC 11574)
ETS 300 387	Private Telecommunication Network (PTN); Method for the specification of basic and supplementary services (1994)
ITU-T Rec. I.112	Vocabulary of terms for ISDNs (1993)
ITU-T Rec. I.210	Principles of telecommunication services supported by an ISDN and the means to describe them (1993)
ITU-T Rec. Z.100	Specification and description language (1993)

4 Definitions

For the purpose of this Standard the following definitions apply.

4.1 External definitions

This Standard uses the following terms defined in other documents:

- Basic Service (ITU-T Rec. I.210)
- Connection (ITU-T Rec. I.112)

- Private Integrated Services Network (PISN) (ECMA-133)
- Private Integrated Services Network Exchange (PINX) (ECMA-133)
- Service (ITU-T Rec. I.112)
- Signalling (ITU-T Rec. I.112)
- Supplementary Service (ITU-T Rec. I.210)
- User (except in the context of ANF-CMN user) (ECMA-142)

This Standard refers to the following basic call functional entities (FEs) defined in ECMA-142:

- Call Control (CC)
- Call Control Agent (CCA)

This Standard refers to the following basic call inter-FE relationships defined in ECMA-142:

- r1
- r2
- r3

This Standard refers to the following basic call information flows defined in ECMA-142:

- SETUP request/indication
- SETUP response/confirmation

4.2 Additional Network Feature

A capability, over and above that of a basic service, provided by a PISN, but not directly to a PISN user.

4.3 ANF-CMN User

An entity that acts on behalf of one end of a connection through a PISN by using ANF-CMN to exchange Common Information with a peer entity acting on behalf of the other end of the connection.

4.4 Backward direction

Within the context of a call, the direction from the called user towards the calling user.

4.5 Call, Basic Call

An instance of the use of a basic service.

4.6 Common Information

Information relating to the user or equipment at one end of a connection through a PISN. This information includes one or more of the following: Feature Identifiers, Party Category, Equipment Identity.

4.7 Feature Identifier

In the context of a particular call, an indication of the availability of a supplementary service or ANF or of a particular capability of a supplementary service or ANF.

4.8 Forward direction

Within the context of a call, the direction from the calling user towards the called user.

4.9 Equipment Identity

A unique identity, three-level structured consisting of Node identity, Group identity, Unit identity.

NOTE

The purpose of the Equipment Identity is to indicate, to another user or to another PINX, information about a calling or called party involved in a call. Assignment of network wide unique Equipment Id values is outside the scope of this Standard.