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ISO/IEC JTC 1/SGFS
Title: ISO/IEC JTC 1 Special Group on Functional Standardization
Secretariat: NNI (Netherlands)

Title : EWOS Liaison to ISO/IEC JTC1/SGFS: Update to SGFS N100,
Directory of ISPs and profiles

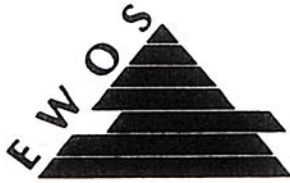
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For discussion during the SGFS Plenary Meeting June 15-19, 1992, Washington DC, USA

Note :

532



EWOS/TA/92/051

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From : EG LL
To : EWOS/TA
Date : 1992-02-08
Status : For TA approval; submitted as a result of joint
EWOS/EG LL, AOW/WAN SIG, OIW LL SIG, ETSI STC
TE.7 meeting (3-7 February 1992)

Liaison to ISO/IEC JTC-1/SGFS :
Update to SGFS N 100, Directory of ISPs and profiles

To: Peter Bessems, JTC1/SGFS Secretariat

From: Magnus Stallknecht, EWOS/EGLL

Date: February 8, 1992

Subject: Update to SGFS N 100, Directory of ISPs and profiles

Status: This contribution was approved for submission to SGFS during the joint meeting of the Regional Workshops (AOW/WAN SIG, EWOS/EGLL and OIW LLSIG) in Brussels on February 3-7, 1992, to progress ISDN based profiles.

Dear Mr. Bessems,

Attached please find proposed revisions to SGFS N 100 profile status tables and associated profile summary descriptions. This contribution reflects the current plans of the Regional Workshops to develop ISDN based ISPs.

Proposed revisions to table 3 (Page 7) of ISO/IEC JTC-1/SGFS N100 are attached.

Profile Identifier	Profile Title	Org. to submit pDISP	Schedule	Profile summary in Annex #	Proposed ISP Id.
Tx1131 (x=C,D)	ISDN COTS over CONS over PSDN - Permanent Access to PSDN - ISDN B-Channel, semi-permanent virtual call	EWOS			10609
Tx1231 (x=C,D)	ISDN COTS over CONS over PSDN - Switched Access to a PSDN - ISDN B-Channel case - virtual call	EWOS			10609
Tx4111 (x=C,D)	ISDN COTS over CONS over ISDN Semi-permanent service - B-Channel - X.25 DTE to DTE operation	EWOS			10609
Tx4211 (x=C,D)	ISDN COTS over CONS over ISDN circuit - mode service - B-Channel X.25 DTE to DTE operation	EWOS			10609

Profile Identifier	Profile Title	Org. to submit pDISP	Schedule	Profile summary in Annex #	Proposed ISP Id.
Tx43111 (x=C,D)	ISDN Packet mode service, D-Channel, VC, without Q.931	AOW			10609
Tx43112 (x=C,D)	ISDN Packet mode service, D-Channel, VC, with Q.931	AOW			10609
Tx43211 (x=C,D)	ISDN Packet mode service B-Channel, semi-permanent access, without Q.931	AOW			10609
Tx43212 (x=C,D)	ISDN Packet mode service, B-Channel, semi-permanent access, with Q.931	AOW			10609
Tx4331 (x=C,D)	ISDN Packet mode service, B-Channel, demand access	AOW			10609



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ISO/IEC JTC 1/SGFS
Title: ISO/IEC JTC 1 Special Group on Functional Standardization
Secretariat: NNI (Netherlands)

Title : Information Technology - Framework and Taxonomy of International Standardized Profiles - Directory of ISPs and Profiles contained therein

Source : Editor - Directory: ISO/IEC JTC 1 Special Group on Functional Standardization, Working Group on Taxonomy

Project :

Status : According to resolution 8 of the Copenhagen meeting JTC 1/SGFS, this Directory will be published on a regular basis as an JTC 1/SGFS N-numbered document.

This is the 3rd revision of the document.

DIRECTORY OF ISPs AND PROFILES CONTAINED THEREIN

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1 Scope

This document accompanies the Technical Report ISO/IEC/TR/10000. It provides additional information about ISPs and Profiles. It includes

- Status information about each Profile identified in the Taxonomy (Technical Report ISO/IEC/TR 10000-2)
- summary descriptions of existing or proposed Profiles
- Information about the possible joint use of A/B-and F-Profiles.

Because of the nature of the information provided, the "Directory of ISPs and Profiles contained therein" may serve as a guidebook for users of Profiles, namely product planners, developers and procurers.

The status information may be used for planning purposes: JTC 1/SGFS may use it in planning its task to review PDISPs. Others may use it to determine the expected schedule for the availability of a particular Profile specification. Also, information is provided as to in which ISP a particular Profile is documented. Hence, it serves as an index to ratified ISPs.

The summary descriptions of Profiles may be used by those who are interested to get an overview of available Profiles.

The information about possible joint use of A/B- Profiles and F-Profiles is offered to users of Profiles in their process of planning or procuring real systems.

This directory is a factual record of such information as provided by Profile originators. It is subject to updating by the Secretariat of the JTC 1 Special Group on Functional Standardization, following the corresponding rules of JTC 1/SGFS.

2 References

ISO/IEC/TR 10000-1: 1990, Information Technology - Framework and Taxonomy of International Standardized Profiles
Part 1: Taxonomy Framework
(to be published)

ISO/IEC/TR 10000-2: 1990, Information Technology - Framework and Taxonomy of International Standardized Profiles.

Part 2: Taxonomy of Profiles (to be published)

3 Abbreviations

3.1 General abbreviations

CL	Connectionless-mode
CL-NS	Connectionless-mode Network Service
CL-TS	Connectionless-mode Transport Service
CO	Connection-mode
CO-NS	Connection-mode Network Service
CO-TS	Connection-mode Transport Service
CSDN	Circuit Switched Data Network
CSMA/CD	Carrier Sense, Multiple Access/Collision Detection
DAP	Directory Access Protocol
DSA	Directory Service Agent
DSP	Directory Service Protocol
DUA	Directory User Agent
FDDI	Fibre Distributed Data Interface
ISDN	Integrated Services Digital Network
ISP	International Standardized Profile
LAN	Local Area Network
MAC	Media Access Control
MTA	Message Transfer Agent
MS	Message Store
MIS	Message Transfer System
PDISP	Proposed Draft ISP
PSDN	Packet Switched Data Network
PSIN	Public Switched Telephonic Network
PVC	Permanent Virtual Circuit
QoS	Quality of Service
SGFS	JTC 1/Special Group on Functional Standardization
UA	User Agent
VC	Virtual Call

3.2 Abbreviations used in Profile Identifiers

ADI	Profile sub-class: Directory
AFT	Profile sub-class: File Transfer, Access and Management
AMH	Profile sub-class: Message Handling
AQM	Profile sub-class: OSI Management
ARD	Profile sub-class: Remote Database Access
ATP	Profile sub-class: Transaction Processing
AVT	Profile sub-class: Virtual Terminal
FCG	Profile sub-class: Computer Graphics Metafile Interchange Format
FDI	Profile sub-class: Directory Data Definitions

FOD Profile sub-class: Office Document
Format
FSG Profile sub-class: SGML Interchange
format

4 Profile summary descriptions

For each Profile identified and in existence (either ratified or proposed), a summary description of its scope, scenario and model has to be provided by the originator. Such summary descriptions will be attached to this document as annexes as they are received from the respective originators. The Profile status tables in clause 6 will identify for each profile the number of the annex in which the summary description can be found.

5 Information about the possible joint use of A/B- and F-Profiles

ISO/IEC/TR 10000-1 identifies in its clause 7.3.2 potential constraints imposed by A/B- and F-Profiles and/or respective base standards about the possible joint use of A/B- and F-Profiles. In order to assist users of Profiles in their process of planning or procuring real systems, this clause will contain information provided by originators of Profiles, with regard to such constraints. It should, however, be noted that further constraints with regard to the combination of A/B- and F-Profiles may exist in real products, as a result of practical implementation of such Profiles.

The information contained in this clause will be taken from existing or proposed ISPs, and will be updated by the Secretariat of the Special Group. Hence, the quality and completeness of material in this clause is dependent on submissions from Profile originators. No liability whatever can therefore be assumed by the Secretariat.

6 Profile status information

Tables 1 to 4 show information about the status of Profiles and where they are documented in ISPs. The information in this clause will be updated by the Secretariat of the JTC 1 Special Group on Functional Standardization, following the rules of JTC 1/SGFS.

The following status designators are used:

- R Need for Profile positively recognized by authorized body.
- C Originating organization has submitted statement of intent to contribute the PDISP containing the Profile.
- S Profile submitted as (part of) PDISP, review or ballot in progress.
- A Profile approved as (part of) ISP and published.

Table 1 - Profile status information: Status A

Profile Identifier	Profile Title (short)	"Maintenance organization"	Profile summary description available in Annex #	ISP and part number
	Specification of ACSE, Presentation and Session Protocols for the use by FTAM (AFDM)	SPAG	-	10607-1
	Definition of Document Types, Constraint Sets and Syntaxes (AFDM)	SPAG	-	10607-2 10607-2/AD1
AFT11	Simple File Transfer	SPAG	1	10607-3
AFT12	Positional File Transfer	EWOS	5	10607-4 *
AFT22	Positional File Access	EWOS	6	10607-5 *
AFT3	File Management	EWOS	7	10607-6 *
	General overview and Subnetwork-independent requirements for Group TA	COO	-	10608-1 *
TA51	CO-TS over CL-NS in LAN with CSMA/CD	COO	3	10608-2 *
	Subnetwork-type independent requirements for Group TB	POSI	-	10609-1 *
	Subnetwork-type independent requirements for Group TC	POSI	-	10609-2 *
	Subnetwork-type independent requirements for Group TD	POSI	-	10609-3 *
	Subnetwork-type independent requirements for Group TE	POSI	-	10609-4 *
TB1111	CO-TS over CO-NS in PSDN; permanent access via PSIN leased line; VC: Transport Protocol classes: 0 + 2 + 4	POSI	4	10609-5 *
TB1121	CO-TS over CO-NS in PSDN; permanent access via digital data circuit or CSDN leased line; VC: Transport Protocol classes: 0 + 2 + 4	POSI	4	10609-5 *
TC1111	CO-TS over CO-NS in PSDN; permanent access via PSIN leased line; VC: Transport Protocol classes: 0 + 2	POSI	4	10609-6 *
TC1121	CO-TS over CO-NS in PSDN; permanent access via digital data circuit or CSDN leased line; VC: Transport Protocol classes: 0 + 2	POSI	4	10609-6 *

* = approved but not yet published.

Table 1 (concluded) - Profile status information: Status A

Profile Identifier	Profile Title (short)	"Maintenance organization"	Profile summary description available in Annex #	ISP and part number
TD1111	CO-TS over CO-NS in PSDN; permanent access via PSTN leased line; VC: Transport Protocol class: 0	POSI	4	10609-7 *
TD1121	CO-TS over CO-NS in PSDN; permanent access via digital data circuit or CSDN leased line; VC: Transport Protocol classes: 0	POSI	4	10609-7 *
TE1111	CO-TS over CO-NS in PSDN; permanent access via PSTN leased line; VC: Transport Protocol class: 2	POSI	4	10609-8 *
TE1121	CO-TS over CO-NS in PSDN; permanent access via digital data circuit or CSDN leased line; VC: Transport Protocol classes: 2	POSI	4	10609-8 *
	Subnetwork-type dependent requirements for Network Layer, Data Link Layer and Physical Layer concerning permanent access to a packet switched data network using Virtual call (TB/TC/TD/TEmm)	POSI	-	10609-9 *

* = approved but not yet published.

Table 2 - Profile status information: Status S

Profile Identifier	Profile Title (short)	Organization having submitted the PDISP	Schedule for review(R) or ballot (B) if known	Profile summary description available in Annex #	ISP Identifier
TA1111	CO-IS over CL-NS in PSDN, permanent access	COS	Ballot disapproved	2	10608-5
FOD11	Simple document structure - character content only	AOW	review finished		10610
FOD26	Enhanced document structure - Character, raster graphics and geometric graphics content architecture	EWOS	review finished		11181
FOD36	Extended document structure - Character, raster graphics and geometric graphics content architecture	NOIW	review finished		11182
	Management Communications Protocols - Specification of ACSE, Presentation and Session Protocols for the use by ROSE and CMISE (Admin)	EWOS	under Review	-	11183-1
ACM12	Management Communications Protocols - Enhanced Management Communications	EWOS	under Review	8	11183-2

Table 3 - Profile status information: Status C

Profile Identifier	Profile Title (short)	Organization committed to submit FDISP	Schedule	Profile summary description available in Annex #	Proposed ISP Identifier
TA52	CO-TS over CL-NS in LAN with Token Bus	NOIW	to be defined		10608-3
TA53	COTS class 4, CLNS, LLC1, Token Ring LAN	NOIW	late 1991	9	10608-4
AMH11	Common MHS Facilities: MTA and MTS	EWOS	early 1991		10611
AMH12	Common MHS Facilities: MTA MS (P7)	EWOS	early 1991		10611
RD51.51	Relaying the MAC service - CSMA/CD to CSMA/CD	EWOS	early 1991		10612
RD51.53	Relaying the MAC service - CSMA/CD to Token Ring	EWOS	early 1991		10612
TA4x	CO-TS over CL-NS in ISDN	NOIW	to be defined		10613
Tx1231 (x=B,C, D, E)	ISDN access to PSDN - B - channel case - VC	EWOS	early 1991		10614
Tx4111 (x= B,C, D,E)	ISDN Semi-permanent service- B-channel - X.25 DTE to DTE operation	EWOS	early 1991		10614
Tx4311 (x=B,C, D,E)	ISDN Packet mode service - D-channel access - VC	AOW	early 1991		10614
Tx4321 (x=B,C, D,E)	ISDN Packet mode service - B-channel semi-permanent access - VC	AOW	early 1991		10614
Tx4331 (x=B,C, D,E)	ISDN Packet mode service - B-channel demand access - VC	AOW	early 1991		10614
ADLx	Directory	SPAG			10615
FDLx	Directory Data Definitions	SPAG			10615
AVT 22	Basic class, S-mode, Forms	EWOS			
RA51.1111	Relaying the CLNS - CSMA/CD to PSDN (VC, PSTN leased line perm. access)	EWOS	mid 1991	12	
RA51.1121	Relaying the CLNS - CSMA/CD to PSDN (VC, CSIN leased line perm. access)	EWOS	mid 1991	12	
RA51.51	Relaying the CLNS - CSMA/CD to CSMA/CD	EWOS	mid 1991	13	
RC51.1111	Relaying the X.25 PFP - CSMA/CD to PSDN (VC, PSTN leased line perm. access)	EWOS	early 1991	14	
RC51.1121	Relaying the X.25 PFP - CSMA/CD to PSDN (VC, CSIN leased line perm.access)	EWOS	early 1991	14	
RD51.51	Relaying the MAC service - CSMA/CD to CSMA/CD)	EWOS	late 1991	15	

Table 3 (concluded) - Profile status information: Status C

Profile Identifier	Profile Title (short)	Organization committed to submit PDISP	Schedule	Profile summary description available in Annex #	Proposed ISP Identifier
TC51	COTS classes 0 and 2, CONS, LLC2, CSMA/CD LAN	EWOS	early 1991	10	
TC53	COTS classes 0 and 2, CONS, LLC2, Token Ring LAN	EWOS	early 1991	11	
AQM11	Management Communications Protocols - Basic Management Communications	EWOS	mid 1991		11183-3

Table 4 - Profile status information: Status R

Profile Identifier(s)	Profile Title (short)	Organization(s) recognizing need
AMH21	IPMS: P2 over P1	SPAG
AMH22	IPMS: MS Access (P2 over P7)	SPAG
TB2x, TC2x, TD2x	CSDN, leased and dial-up service	SPAG
TB3x, TC3x, TD3x	PSIN, leased and dial-up service	SPAG
TB51	CO-TS over CO-NS in CSMA/CD LAN: TP Classes 0 + 2 + 4	SPAG
TD51	CO-TS over CO-NS in CSMA/CD LAN: TP Class 0 only	BSI
TB53,	CO-TS over CO-NS in Token Ring LAN: TP classes 0 + 2 + 4;	SPAG

Informative Annexes,
containing Profile summary
descriptions
as provided by the Profile originators

Source : AOW/EWOS
Subject : ISDN ISP Profiles : Summary Overview
Date : 1992-02-06

Attached are profile overview sheets for ISDN ISPs. To be reviewed for inclusion in TR 10000.

ISDN - Packet-mode service - D-channel access VC without use of Q.931 (COTS over CONS)

Profile TC43111, TD43111

Profiles TC43111 and TD43111 are applicable to end systems concerned with operating in the OSI environment. These profiles specify a combination of standards which provide a Connection Mode Transport Service (Classes 0 and 2 for TC or Class 0 for TD) using the Connection Mode Network Service. These profiles are applicable to end systems using an ISDN Packet Mode Bearer Service (D-channel). The end systems communicate through a single ISDN (D-channel) Virtual Call (without use of Q.931).

These profiles are specified in a multi-part ISP. Part 2 and 3 of this ISP specify the subnetwork-type independent requirements for Groups TC and TD profiles. Part 24 and 28 specify the ISDN common requirements for Groups TC and TD profiles. Part 34 of this ISP defines profile TC43111 and Part 44 of this ISP defines profile TD43111.

Figure 1 illustrates the end system configuration to which profiles TC43111 and TD43111 apply:

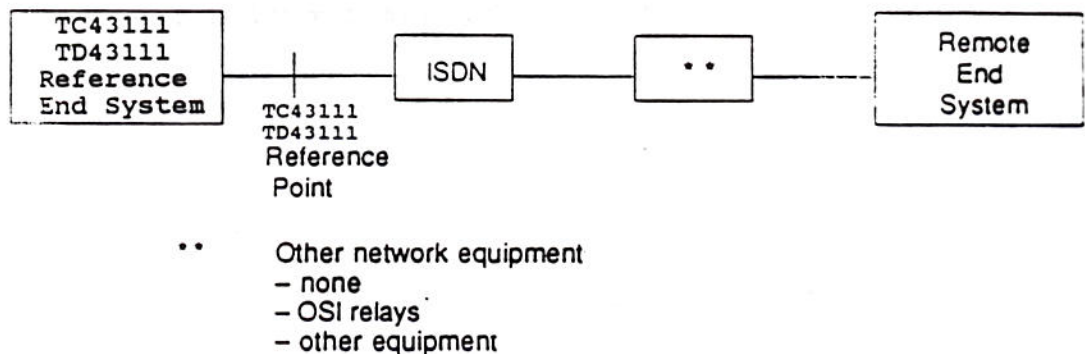


Figure 1 Scenario of applicability of profiles TC43111 and TD43111

Communication between the reference end system and the compatible end system is via a single or multiple ISDN configuration, or via a combination of ISDN(s) and single or multiple intermediate systems. The OSI Connection Mode Transport and Network Services are provided in both end systems.

These profiles specify the required functions from the supporting protocol stack shown below in Figure 2, at the reference point S/T:

Transport Layer	ISO/IEC 8073
Network Layer	ISO/IEC 9574 with ISO/IEC 8878
	ISO/IEC 8208
Data Link Layer	CCITT Q.921
Physical Layer	CCITT I.430, I.431

Figure 2 Profile protocol stack for end system

ISDN - Packet-mode service - D-channel access VC with use of Q.931 (COTS over CONS)

Profile TC43112, TD43112

Profiles TC43112 and TD43112 are applicable to end systems concerned with operating in the OSI environment. These profiles specify a combination of standards which provide a Connection Mode Transport Service (Classes 0 and 2 for TC or Class 0 for TD) using the Connection Mode Network Service. These profiles are applicable to end systems using an ISDN Packet Mode Bearer Service (D-channel). The end systems communicate through a single ISDN (D-channel) Virtual Call (with use of Q.931).

These profiles are specified in a multi-part ISP. Part 2 and 3 of this ISP specify the subnetwork-type independent requirements for Groups TC and TD profiles. Part 24, 27 and 28 specify the ISDN common requirements for Groups TC and TD profiles. Part 35 of this ISP defines profile TC43112 and Part 45 of this ISP defines profile TD43112.

Figure 1 illustrates the end system configuration to which profiles TC43112 and TD43112 apply:

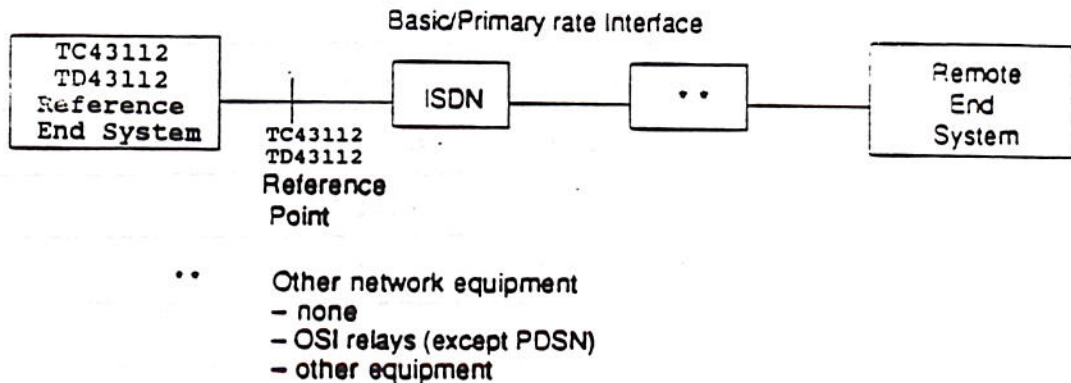


Figure 1 Scenario of applicability of profiles TC43112 and TD43112

Communication between the reference end system and the compatible end system is via a single or multiple ISDN configuration, or via a combination of ISDN(s) and single or multiple intermediate systems. The OSI Connection Mode Transport and Network Services are provided in both end systems.

These profiles specify the required functions from the supporting protocol stack shown below in Figures 2 and 3 at the reference point S/T:

Transport Layer	ISO/IEC 8073
Network Layer	ISO/IEC 9574 with ISO/IEC 8878
	CCITT Q.931 ISO/IEC 3208
Data Link Layer	CCITT Q.921
Physical Layer	CCITT I.430, I.431

Figure 2 Profile protocol stack for end system receiving a call

Transport Layer	ISO/IEC 8073
Network Layer	ISO/IEC 9574 with ISO/IEC 8878
	ISO/IEC 8208
Data Link Layer	CCITT Q.921
Physical Layer	CCITT I.430, I.431

Note: Q.931 is not used when making a call in case of D-channel access

Figure 3 Profile protocol stack for end system making a call

ISDN - Packet-mode service - B-channel - semi-permanent access VC without use of Q.931 (COTS over CONS)

Profile TC43211, TD43211

Profiles TC43211 and TD43211 are applicable to end systems concerned with operating in the OSI environment. These profiles specify a combination of standards which provide a Connection Mode Transport Service (Classes 0 and 2 for TC or Class 0 for TD) using the Connection Mode Network Service. These profiles are applicable to end systems using an ISDN Packet Mode Bearer Service (B-channel - semi-permanent access). The end systems communicate through a single ISDN (B-channel) Virtual Call (without use of Q.931).

These profiles are specified in a multi-part ISP. Part 2 and 3 of this ISP specify the subnetwork-type independent requirements for Groups TC and TD profiles. Part 23 specifies the ISDN common requirements for Groups TC and TD profiles. Part 36 of this ISP defines profile TC43211 and Part 46 of this ISP defines profile TD43211.

Figure 1 illustrates the end system configuration to which profiles TC43211 and TD43211 apply:

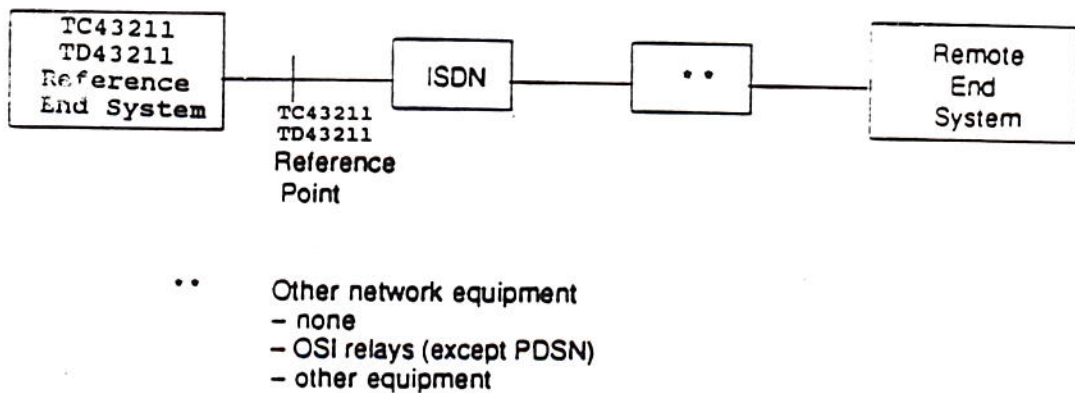


Figure 1 Scenario of applicability of profiles TC43211 and TD43211

Communication between the reference end system and the compatible end system is via a single or multiple ISDN configuration, or via a combination of ISDN(s) and single or multiple intermediate systems. The OSI Connection Mode Transport and Network Services are provided in both end systems.

These profiles specify the required functions from the supporting protocol stack shown below in Figure 2, at the reference point S/T:

Transport Layer	ISO/IEC 3073
Network Layer	ISO/IEC 9574 with ISO/IEC 8878
	ISO/IEC 8208
Data Link Layer	ISO 7776
Physical Layer	CCITT 1.430, 1.431

Figure 2 Profile protocol stack for end system

ISDN - Packet-mode service - B-channel - semi-permanent access VC with use of Q.931 (COTS over CONS)

Profile TC43212, TD43212

Profiles TC43212 and TD43212 are applicable to end systems concerned with operating in the OSI environment. These profiles specify a combination of standards which provide a Connection Mode Transport Service (Classes 0 and 2 for TC or Class 0 for TD) using the Connection Mode Network Service. These profiles are applicable to end systems using an ISDN Packet Mode Bearer Service (B-Channel, Semi-permanent access). The end systems communicate through a single ISDN (B-channel) Virtual Call (with use of Q.931).

These profiles are specified in a multi-part ISP. Part 2 and 3 of this ISP specify the subnetwork-type independent requirements for Groups TC and TD profiles. Part 23, 27 and 28 specify the ISDN common requirements for Groups TC and TD profiles. Part 37 of this ISP defines profile TC43212 and Part 47 of this ISP defines profile TD43212.

Figure 1 illustrates the end system configuration to which profiles TC43212 and TD43212 apply:

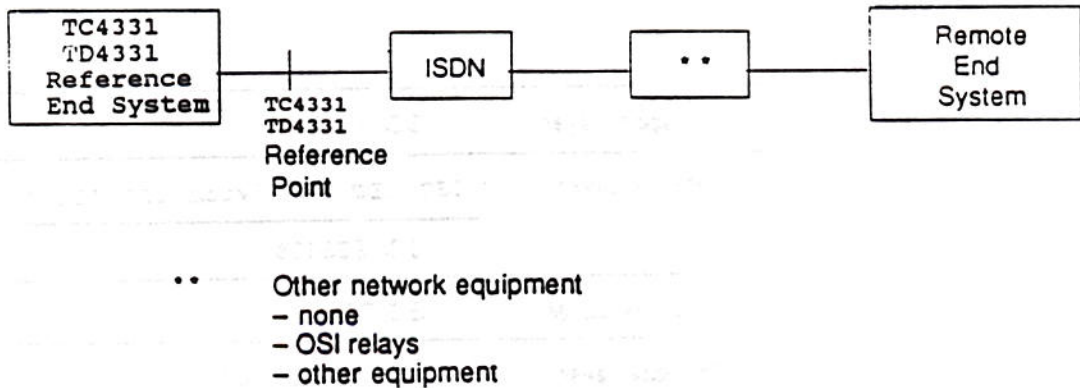


Figure 1 Scenario of applicability of profiles TC43212 and TD43212

Communication between the reference end system and the compatible end system is via a single or multiple ISDN configuration, or via a combination of ISDN(s) and single or multiple intermediate systems. The OSI Connection Mode Transport and Network Services are provided in both end systems.

These profiles specify the required functions from the supporting protocol stack shown below in Figures 2 and 3, at the reference point S/T:

Transport Layer	ISO/IEC 8073
Network Layer	ISO/IEC 9574 with ISO/IEC 8878
	CCITT Q.931 ISO/IEC8208
Data Link Layer	CCITT Q.921 ISO 7776
Physical Layer	CCITT I.430, I.431

Figure 2 Profile protocol stack for end system receiving a call

Transport Layer	ISO/IEC 8073
Network Layer	ISO/IEC 9574 with ISO/IEC 8878
	ISO/IEC8208
Data Link Layer	ISO 7776
Physical Layer	CCITT I.430, I.431

Note: Q.931 is not used when making a call in case of B-channel - semi-permanent access.

Figure 3 Profile protocol stack for end system making a call

ISDN - Packet-mode service - B-channel demand access
VC(COTS over CONS)

Profile TC4331, TD4331

Profiles TC4331 and TD4331 are applicable to end systems concerned with operating in the OSI environment. These profiles specify a combination of standards which provide a Connection Mode Transport Service (Classes 0 and 2 for TC or Class 0 for TD) using the Connection Mode Network Service. These profiles are applicable to end systems using an ISDN Packet Mode Bearer Service (B-channel demand access). The end systems communicate through a single ISDN (B-channel) Virtual Call.

These profiles are specified in a multi-part ISP. Part 2 and 3 of this ISP specify the subnetwork-type independent requirements for Groups TC and TD profiles. Part 23, 26, 27 and 28 specify the ISDN common requirements for Groups TC and TD profiles. Part 38 of this ISP defines profile TC4331 and Part 48 of this ISP defines profile TD4331.

Figure 1 illustrates the end system configuration to which profiles TC4331 and TD4331 apply:

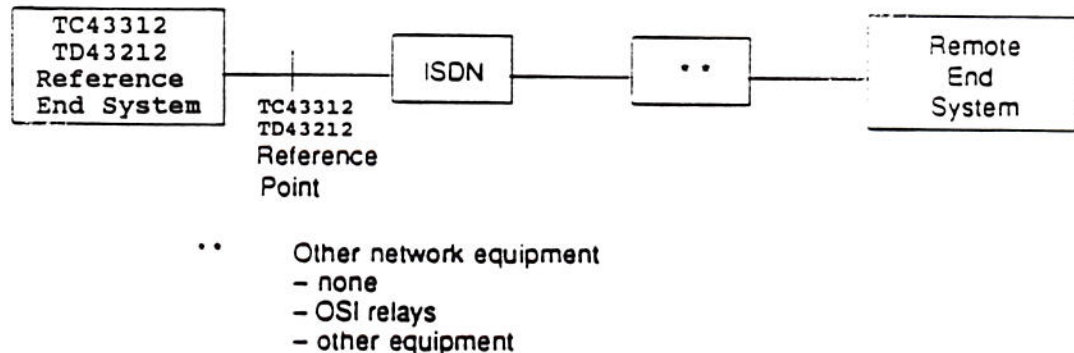


Figure 1 Scenario of applicability of profiles TC4331 and TD4331

Communication between the reference end system and the compatible end system is via a single or multiple ISDN configuration, or via a combination of ISDN(s) and single or multiple intermediate systems. The OSI Connection Mode Transport and Network Services are provided in both end systems.

These profiles specify the required functions from the supporting protocol stack shown below in Figure 2, at the reference point S/T:

Transport Layer	ISO/IEC 8073	
Network Layer	ISO/IEC 9574 with ISO/IEC 8878	
	CCITT Q.931	ISO/IEC8208
Data Link Layer	CCITT Q.921	ISO 7776
Physical Layer	CCITT I.430, I.431	

Figure 2 Profile protocol stack for end system

Packet Switched Data Network - Permanent Access - ISDN B-Channel VC
(COTS over CONS)

Profiles TC1131, TD1131

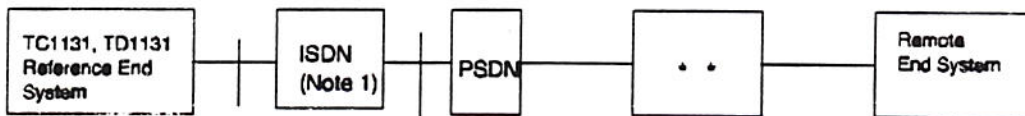
Profiles TC1131 and TD1131 are applicable to end systems concerned with operating in the OSI environment. These profiles specify a combination of standards which provide a Connection Mode Transport Service (Classes 0 and 2 for TC or class 0 for TD) using the Connection Mode Network Service. These profiles are applicable to end systems using an ISDN Circuit Mode Unrestricted Bearer Service to access a PSDN.

Profiles TC1131 and TD1131 apply when using X.25 Virtual Call (VC).

In these profiles, the ISDN B-Channel provides a circuit mode 64 kbits/s unrestricted bearer service over a semi-permanent B-Channel between the reference end system and the PSDN port.

These Profiles are specified in a multi-part ISP. Parts 2, 3 and 9 of this ISP specify the subnetwork-type independent requirements for Groups TC and TD profiles. Part 30 of this ISP defines profile TC1131 and Part 40 defines profile TD1131.

Figure 1 illustrates the end system configuration to which profiles TC1131, and TD1131 apply.



Note 2

TC1131
TD1131
Reference Point

* * Other network equipment covered by TR10000
none, OSI relays or other equipment

Figure 1

Note 1: Communication between the reference end system and the PSDN port is via a single or multiple ISDN configuration. The OSI Connection Mode Transport Service and OSI Connection Mode Network Service are provided in both end systems.

Note 2: The structure of the interface between the ISDN and PSDN is outside the scope of this profile.

These profiles specify the required functions from the supporting protocol stack shown below in Figure 2, at the reference point S/T.

Transport Layer	ISO/IEC 8073
Network Layer	ISO/IEC 8574 with ISO/IEC 8878
	ISO/IEC 8208
Data Link Layer	ISO 7776
Physical Layer	CCITT 1.430 or 1.431

B Channel

Figure 2

Packet Switched Data Network - Switched Access - ISDN B-Channel VC
(COTS over PDN)

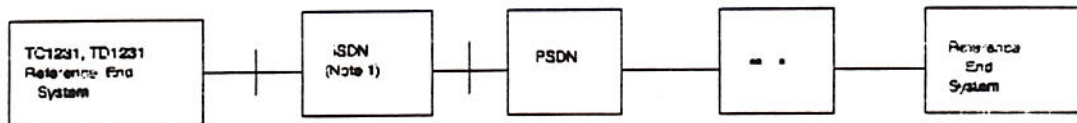
Profiles TC1231, TD1231

Profiles TC1231 and TD1231 are applicable to end systems concerned with operating in the OSI environment. These profiles specify a combination of standards which provide a Connection Mode Transport Service (Classes 0 and 2 for TC or class 0 for TD) using the Connection Mode Network Service. These profiles are applicable to end systems using an ISDN Circuit Mode Unrestricted Bearer Service to access a PSDN.

In these profiles, the ISDN provides a circuit mode 64 kbits/s unrestricted bearer service over an on-demand B-Channel between the reference end system and the PSDN port. The D-Channel is used to carry signalling relating to the establishment and control of the B-Channel connections.

These Profiles are specified in a multi-part ISP. Parts 2, 3, 22, 25 and 28 of this ISP specify the subnetwork-type independent requirements for Groups TC and TD profiles. Part 31 of this ISP defines profile TC1231 and Part 41 defines profile TD1231.

Figure 1 illustrates the end system configuration to which profiles TC1231 and TD1231 apply.



TC1231
TD1231
Reference port

Note 2

* * Other network equipment covered by
TR10000
none, OSI relays or other
equipment

Figure 1

Note 1: Communication between the reference end system and the PSDN port is via a single or multiple ISDN configuration. The OSI Connection Mode Transport Service and OSI Connection Mode Network Service are provided in both end systems.

Note 2: The structure of the interface between the ISDN and PSDN is outside the scope of this profile.

These profiles specify the required functions from the supporting protocol stack shown below in figure 2, at the reference point S/T.

Transport Layer	ISO/IEC 8073	
Network Layer	ISO/IEC 9574 with ISO 8878	
	CCITT Q.831	ISO/IEC 8208
Data Link Layer	CCITT Q.921	ISO 7776
Physical Layer	CCITT L.430 or L.431	

D Channel

B Channel

Figure 2

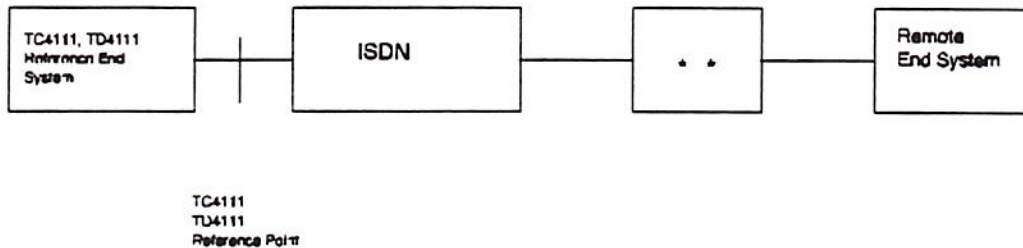
ISDN -Semi-permanent service -B-Channel - X.25 DTE -DTE (COTS over
CONG)

Profile TC 4111 TD 4111

Profiles TC 4111 and TD 4111 are applicable to end systems concerned with operating in the OSI environment. These profiles specify a combination of standards which provide a Connection Mode Transport Service (Classes 0 and 2 for TC or Class 0 for TD) using the Connection Mode Network Service. These profiles are applicable to end systems using an ISDN Circuit Mode Unrestricted Bearer Service (Semi-Permanent). The end systems communicate through a single ISDN (B-Channel) Virtual Call (X.25 DTE to DTE operation).

These profiles are specified in a multi-part ISP. Parts 2, 3 and 21 of this ISP specify the subnetwork-type independent requirements for Groups TC and TD profiles. Part 32 of this ISP defines profile TC4111 and Part 42 defines profile TD4111.

Figure 1 illustrates the end system configuration to which profiles TC4111 and TD4111 apply.



** Other network equipment covered by TR10000
none, OSI relays or other equipment.

Figure 1

Communication between the reference end system and the compatible end system is via a single or multiple ISDN configuration, or via a combination of ISDN(s) and single or multiple intermediate systems. The OSI Connection Mode Transport and Network Services are provided in both end systems.

These profiles specify the required functions from the supporting protocol stack shown below, at the reference point S/T.

Transport Layer	ISO/IEC 8073
Network Layer	ISO/IEC 9574&AM1 with ISO/IEC 8878
	ISO/IEC 8208
Data Link Layer	ISO 7776
Physical Layer	CCITT 1.430 or 1.431

B Channel

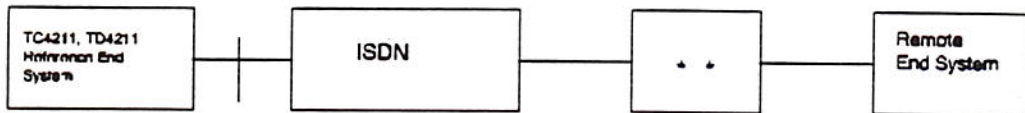
ISDN -Circuit mode service -B-Channel - X.25DTE -DTE (COTS over CONS)

Profile TC 4211, TD 4211

Profiles TC 4211 and TD 4211 are applicable to end systems concerned with operating in the OSI environment. These profiles specify a combination of standards which provide a Connection Mode Transport Service (Classes 0 and 2 for TC or Class 0 for TD) using the Connection Mode Network Service. These profiles are applicable to end systems using an ISDN Circuit Mode Unrestricted Bearer Service. The end systems communicate through a single ISDN Virtual Call (X.25 DTE to DTE operation).

These profiles are specified in a multi-part ISP. Parts 2,3, 21, 25 and 28 of this ISP specify the subnetwork-type independent requirements for Groups TC and TD profiles. Part 33 of this ISP defines profile TC4211 and Part 43 defines profile TD4211.

Figure 1 illustrates the end system configuration to which profiles TC 4211 and TD 4211 apply.



TC4211
TD4211
Reference Point

** Other network equipment covered by TR10000
none, OSI relays or other equipment.

Figure 1

Communication between the reference end system and the compatible end system is via a single or multiple ISDN configuration, or via a combination of ISDN(s) and single or multiple intermediate systems. The OSI Connection Mode Transport and Network Services are provided in both end systems.

These profiles specify the required functions from the supporting protocol stack shown below in figure 2 at the reference point S/T.

Transport Layer	ISO/IEC 8073	
Network Layer	ISO/IEC 8574 with ISO 8878	
	CCITT Q.831	ISO/IEC 8208
Data Link Layer	CCITT Q.921	ISO 7776
Physical Layer	CCITT I.430 or I.431	

D Channel B Channel
Figure 2

