

# **Working Implementation Agreements for Open Systems Interconnection Protocols: Part 2 - Subnetworks**

Output from the June 1994 Open Systems  
Environment Implementors' Workshop (OIW)

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Part 2 - Subnetworks      **June 1994 (Working)**

## **Foreword**

This part of the Working Implementation Agreements was prepared by the Lower Layers Special Interest Group (LLSIG) of the Open Systems Environment Implementors' Workshop (OIW). See Part 1 - Workshop Policies and Procedures in the "Draft Working Implementation Agreements" for the workshop charter.

Text in this part has been approved by the Plenary of the Workshop. **These change pages replace the previously existing pages of this part on this subject.**

Future changes and additions to this version of these Implementor Agreements will be published as a new part. Deleted and replaced text will be shown as struck. New and replacement text will be shown as shaded.

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## **Part 2 - Subnetworks**

**Editor's Note** - All references to Stable Agreements in this Section are to Version 7.

### **0 Introduction**

(Refer to Stable Implementation Agreements Document)

#### **Scope**

(Refer to Stable Implementation Agreements Document)

#### **Normative References**

(Refer to Stable Implementation Agreements Document)

#### **Status**

This material is current as of December 10, 1993.

#### **Errata**

Errata are reflected in replacement pages of Version 7, Stable Document.

#### **Local Area Networks**

(Refer to Stable Implementation Agreements Document)

##### **IEEE 802.2 Logical Link Control**

(Refer to Stable Implementation Agreements Document)

##### **IEEE 802.3 CSMA/CD Access Method**

(Refer to Stable Implementation Agreements Document)

##### **IEEE 802.4 Token Bus Access Method**

(Refer to Stable Implementation Agreements Document)

## **IEEE 802.5 Token Ring Access Method**

(Refer to Stable Implementation Agreements Document)

## **Fiber Distributed Data Interface (FDDI)**

### **Token Ring Media Access Control (MAC, X3.139-1987)**

(Refer to Stable Implementation Agreements Document)

Further study is needed to confirm whether a lower default value or range for T\_Req would be useful.

### **Token Ring Physical Layer (PHY,X3.148-1988)**

(Refer to Stable Implementation Agreements Document)

### **Physical Layer Media Dependent (PMD, X3.166-1989)**

(Refer to Stable Implementation Agreements Document)

## **X.25 Wide Area Networks**

### **CCITT Recommendation X.25**

(Refer to the Stable Implementation Agreements Document).

### **ISO 7776**

(Refer to the Stable Implementation Agreements Document).

### **ISO 8208**

(Refer to the Stable Implementation Agreements Document).

## **Integrated Services Digital Networks (ISDN)**

### **Introduction**

(Refer to the Stable Implementation Agreements Document).



## **Implementation Agreements**

(Refer to the Stable Implementation Agreements Document).

### **Physical Layer, Basic Access at "U"**

(Refer to the Stable Implementation Agreements Document).

### **Physical Layer, Basic Access at S and T**

(Refer to the Stable Implementation Agreements Document).

### **Physical Layer, Primary Rate at "U"**

(Refer to the Stable Implementation Agreements Document).

### **Data Link Layer, D-Channel**

(Refer to the Stable Implementation Agreements Document).

### **Signaling**

(Refer to the Stable Implementation Agreements Document).

### **Data Link Layer B-Channel**

(Refer to the Stable Implementation Agreements Document).

### **Packet Layer**

(Refer to the Stable Implementation Agreements Document).

## **Frame Relay Subnetworks**

(Refer to the Stable Implementation Agreements Document).

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**Cross Reference Between CCITT and ANSI Text Relating to  
ISDN Agreements**

(Refer to the Stable Implementation Agreements Document.)

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**Bibliography**

**(Refer to Stable Implementation Agreements Document)**

## **Annex (informative)**

# **Cross Reference between CCITT and ANSI Text Relating to Frame Relay Agreements**

(Refer to the Stable Implementation Agreements Document.)

This annex provides a cross-reference listing between those sections of the ANSI Standards mentioned in clause 8 of this part and the sections of the corresponding CCITT Recommendations.

### **Physical Layer**

ANSI T1.403, which is referenced in 8.3.1 of this part, is equivalent to sections related to the 1544 kbit/s service in the combination of CCITT Recommendations G.703 and G.704. Exceptions to Recommendations G.703 and G.704 are listed below:

#### **CCITT Recommendation G.703**

The sections related to the 1544 kbit/s interface in this Recommendation apply with the following exception:

~~Section 2.5: The current text is replaced by: "The B8ZS code shall be used because connecting line systems require suitable signal content to guarantee adequate timing information."~~

#### **CCITT Recommendation G.704**

The sections related to the 1544 kbit/s interface in this Recommendation apply with the following exceptions:

~~Section 2.1.3 Allocation of the F bit: The current text is to be replaced by: "Table 1/G.704 which provides the recommended F bits allocation;"~~

~~Table 1/G.704:~~

~~In the column "For character signal," all instances of '1-7' are replaced by '1-8' (related bits are: 966, 2124, 3282, and 4440);~~

~~The column "For signalling" is not applicable;~~

~~The column "Signalling channel designation" is not applicable;~~

~~The note a) below the figure is not applicable as it pertains to items 2) and 3) above;~~

~~Table 2/G.704: The table is not applicable;~~

~~Section 2.1.3.1.1 Multiframe alignment signal: The portion starting with "...as well~~

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as to identify..." to the end of the sentence is not applicable;

~~Section 2.1.3.1.3 — 4 kbit/s data link, (third paragraph): The entire paragraph is replaced by: "The idle pattern is the HDLC flag bit pattern (01111110);"~~

~~Section 2.1.3.2 — Method: twelve frame multiframe: This section is not applicable;~~

~~Section 3.1.2 — Use of 64 kbit/s channel time slots: This section is not applicable;~~

~~Section 3.1.3 — Signalling: All sections under 3.1.3 are not applicable;~~

~~Section 3.2 — Interface at 1544 kbit/s carrying 32 kbit/s channel time slots: All sections under 3.2 are not applicable;~~

~~Section 3.3 — Interface at 1544 kbit/s carrying n\*64kbit/s: This section is not applicable.~~

## **Data Transfer**

The following table provides the cross-reference between those sections of the ANS T1.618 Standard referenced in 8.3.2 of this document and the corresponding ITU-T Q.922 Recommendation.

**Table C1 — ANS — ITU-T cross references**

ANS T1.618	ITU-T Recommendation Q.922
Section 4.2	Section 2.2
Section 4.5	Section 2.5
Section 5.3	Section 3.3
Section 5.3.1	Section 3.3.1
Section 5.3.6 Table 1 (a)	Section 3.3.6 Table 1/Q.922 (10 bits DLCI)
Section 5.3.6.2	Note
Section 5.3.7	Section 3.3.7
Section 7	Annex A, Section A.6
— ANSI T1.606 (referenced in Section 7)	— ITU-T Recommendation I.370
— Section 7.1	— Annex A, Section A.6.2.1
— Section 7.2	— Annex A, Section A.6.2
— Annex A (referenced in Section 7.2)	— Appendix I, Section I.2
Section 8	Annex A, Section A.7

**NOTE** — Section 5.3.6.2 of ANS T1.618 has no corresponding section in ITU-T Recommendation Q.922. This section is not applicable and is not part of the Stable Implementation Agreements.

## **Control (Signalling) Procedures**

The following table provides the cross-reference between those sections of the ANS T1.617 Standard referenced in 8.3.3 of this document and the corresponding ITU-T Q.933 Recommendation.

**Table C2 — ANS — ITU-T cross references**

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ANS T1.617	ITU-T Recommendation Q.933
Annex-D Annex-B	Annex-A Annex-B

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**Annex** (informative)

## **Frame Relay Network-to-Network Interface**

(Refer to the Stable Implementation Agreements Document.)