



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

**T.120 System  
Implementors'  
Guide**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

(30 January 2004)

SERIES T: TERMINALS FOR TELEMATIC SERVICES

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**Implementors' Guide for Recommendations of  
the T.120 System (“Data protocols for  
multimedia conferencing”):**

***T.120, T.121, T.122, T.123, T.124, T.125, T.126,  
T.127, T.128, T.134, T.135, T.136, and H.282***

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## **Summary**

This document is a compilation of reported defects identified with the 1993-1999 editions of the ITU-T T.120-series Recommendations. It is intended to be read in conjunction with the Recommendations to serve as an additional authoritative source of information for implementors. The changes, clarifications and corrections defined herein are expected to be included in future versions of affected T.120-series Recommendations. This Implementor's Guide supersedes the ITU-T T.120 Recommendation series Implementor's Guide approved in February 2002.

## Document History

Version	Date	Description
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8	8 June 2001	Eighth version – Completed at the ITU-T Study Group 16 Rapporteurs meeting.
9	15 February 2002	Ninth version – Completed at ITU-T Study Group 16 Rapporteurs meeting.
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# IMPLEMENTORS' GUIDE FOR THE ITU-T T.120, T.121, T.122, T.123, T.124, T.125, T.126, T.127, T.128, T.134, T.135, T.136, AND H.282 RECOMMENDATIONS

## 1. Introduction

This document is a compilation of reported defects identified with the 1993-1999 editions of the ITU-T T.120-series Recommendations. It is intended to be read in conjunction with the Recommendations to serve as an additional authoritative source of information for implementors. The changes, clarifications and corrections defined herein are expected to be included in future versions of affected T.120-series Recommendations.

The first version of the guide was produced following the February 1996 ITU-T Study Group 8 meeting. Wide distribution of this document is expected and encouraged.

## 2. Scope

This Guide resolves defects in the following categories:

- Editorial errors
- Technical errors such as omissions or inconsistencies
- Ambiguities.

In addition, the Guide may include explanatory text found necessary because of interpretation difficulties apparent from the defect reports.

This Guide will not address proposed additions, deletions, or modifications to the Recommendations that are not strictly related to implementation difficulties in the above categories. Proposals for new features should be made in the normal way through contributions to the ITU-T.

## 3. Policies for updating this document

This document is managed by the ITU-T Study Group 16 Question 1 Rapporteurs Group. It can be revised at any recognized Q.1/16 Rapporteurs Group meeting provided the proposed revisions are unanimously accepted by the members of the group. A revision history cataloguing the evolution of this document is included.

## 4. Defect Resolution Procedure

Upon discovering technical defects with any components of the T.120 Recommendations series, please provide a written description directly to the Q.1/16 Rapporteur.

## 5. References

This document refers to the following T.120-series Recommendations:

- ITU-T Recommendation T.120 (07/96) - *Data Protocols for Multimedia Conferencing*.
- ITU-T Recommendation T.120, Annex C (02/98) - *Lightweight Profiles for the T.120 Architecture*.
- ITU-T Recommendation T.121 (07/96) - *Generic Application Template*.

- ITU-T Recommendation T.122 (02/98) - *Multipoint Communication Service - Service Definition.*
- ITU-T Recommendation T.123 (05/99) - *Network Specific Data Protocol Stacks for Multimedia Conferencing.*
- ITU-T Recommendation T.124 (02/98) - *Generic Conference Control.*
- ITU-T Recommendation T.125 (02/98) - *Multipoint Communication Service - Protocol Specification.*
- ITU-T Recommendation T.126 (07/97) - *Multipoint Still Image and Annotation Protocol.*
- ITU-T Recommendation T.127 (08/95) - *Multipoint Binary File Transfer Protocol.*
- ITU-T Recommendation T.128 (02/98) - *Multipoint Application Sharing.*
- ITU-T Recommendation T.134 (02/98) - *Text Chat Application Entity.*
- ITU-T Recommendation T.135 (02/98) - *User-To-Reservation System Transactions within T.120 Conferences.*
- ITU-T Recommendation T.136 (05/99) - *Remote Device Control Application Protocol.*
- ITU-T Recommendation H.282 (05/99)- *A Far End Camera Control Protocol for Video Conferencing Using H.224.*

## 6. Nomenclature

In addition to traditional revision marks, the following marks and symbols are used to indicate to the reader how changes to the text of a Recommendation should be applied:

Symbol	Description
<u><i>[Begin Correction]</i></u>	Identifies the start of revision marked text based on extractions from the published Recommendations affected by the correction being described.
<u><i>[End Correction]</i></u>	Identifies the end of revision marked text based on extractions from the published Recommendations affected by the correction being described.
...	Indicates that the portion of the Recommendation between the text appearing before and after this symbol has remained unaffected by the correction being described and has been omitted for brevity.
<i>--- SPECIAL INSTRUCTIONS --- {instructions}</i>	Indicates a set of special editing instructions to be followed.



## 7. Technical and Editorial Corrections

### 7.1 Technical and Editorial Corrections to ITU-T Recommendation T.120

#### 7.1.2 Addition of new MCS static channel assignments

**Description:** T.120 Annex A1.1 contains a table of MCS Static Channel ID numbers. Two new Application Protocol Entities have been defined, each with a new Channel ID. The table is updated to add Channel IDs 11 and 12.

*[Begin Correction]*

---

#### A1.1 Static Channels

Symbolic Name	MCS Channel ID	Description	Recommendation
GCC-CHANNEL-0	1	GCC Broadcast Channel	T.124
GCC-CHANNEL-1	2	Convenor Channel	T.124
SI-CHANNEL-0	8	MSIA Communications Channel	T.126
MBFT-CHANNEL-0	9	Control Channel	T.127
MBFT-CHANNEL-1	10	Data Channel	T.127
AS-CHANNEL-0	11	Application Sharing Channel	T.128
CHAT-CHANNEL-0	12	Chat Data Channel	T.134

*[End Correction]*

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### 7.2 Technical and Editorial Corrections to ITU-T Recommendation T.120, Annex C

*-None-*

### 7.3 Technical and Editorial Corrections to ITU-T Recommendation T.121

*-None-*

### 7.4 Technical and Editorial Corrections to ITU-T Recommendation T.122

*-None-*

### 7.5 Technical and Editorial Corrections to ITU-T Recommendation T.123

#### 7.5.1 Clarifications to Section B.9 – Connection Negotiation Protocol (CNP)

Text to clarify the usage of TPDU identifiers is being added to the overview of Section B.9 as follows:

*[Begin Correction]*

---

#### B.9.1 Overview

The PDUs defined in this protocol are based on their X.224/Class 0 counterparts. Both X.224 and CNP provide Connect Request, Connect Confirm, Disconnect Request, Data, and Error TPDU. In addition, CNP provides a **NonStandardPDU** for protocol extensibility.

The CNP TPDU's defined in this Annex shall not be used outside the context of T.120 communications.

---

*[End Correction]*

## 7.6 Technical and Editorial Corrections to ITU-T Recommendation T.124

### 7.6.1 Addition of Unicode Support for Conference Names and Passwords

**Description:** In order to better support these users of Unicode languages the definitions of ConferenceName and Password shall be modified with additional optional fields past the extension markers. These fields will allow the full support of Unicode strings for the identification of conference names and for conference passwords. The following are the proposed modifications to the ASN.1.

---

*[Begin Correction]*

ConferenceName ::= SEQUENCE

```
{
    numeric          SimpleNumericString,
    text             SimpleTextString OPTIONAL,
    ...,
    unicode text    TextString OPTIONAL
}
```

ConferenceNameSelector ::= CHOICE

```
{
    numeric          SimpleNumericString,
    text             SimpleTextString,
    ...,
    unicode text    TextString
}
```

Password ::= SEQUENCE

```
{
    numeric          SimpleNumericString,
    text             SimpleTextString OPTIONAL,
    ...,
    unicode text    TextString OPTIONAL
}
```

PasswordSelector ::= CHOICE

```
{
    numeric          SimpleNumericString,
    text             SimpleTextString,
    ...,
    unicode text    TextString
}
```

---

*[End Correction]*

## 7.7 Technical and Editorial Corrections to ITU-T Recommendation T.125

-None-

## 7.8 Technical and Editorial Corrections to ITU-T Recommendation T.126

-None-

## 7.9 Technical and Editorial Corrections to ITU-T Recommendation T.127

### 7.9.1 ASN.1 Errata

**Description:** The following additions to the ASN.1 for the File-OfferPDU were omitted from the published text, as documented in the editor's errata sheet issued at the Paris Rapporteur meeting of 10/95.

The ASN.1 text shown below shall be added.

*[Begin Correction]*

---

```
File-OfferPDU ::= SEQUENCE
{
    file-header          FileHeader,
    data-channel-id      ChannelID,
    file-handle          Handle,
    roster-instance      INTEGER (0..65535) OPTIONAL,
    file-transmit-token  TokenID OPTIONAL,
    file-request-token   TokenID OPTIONAL,
    file-request-handle  Handle OPTIONAL,
    mbftID               UserID OPTIONAL,
    compression-specifier CompressionSpecifier OPTIONAL,
    compressed-filesize  INTEGER OPTIONAL,
    ack-flag             BOOLEAN,           -- True if acknowledgements
                                         -- required
    ...
}
```

*[End Correction]*

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## 7.10 Technical and Editorial Corrections to ITU-T Recommendation T.128

*-None-*

## 7.11 Technical and Editorial Corrections to ITU-T Recommendation T.134

*-None-*

## 7.12 Technical and Editorial Corrections to ITU-T Recommendation T.135

### 7.12.1 Corrections to Section 9.2 - URST ASN.1 Module

GCC-PROTOCOL is usually not associated with an object identifier (OID) except in T.135. Therefore, to be consistent with the other T.120-series documents, the OID reference in Section 9.2 is removed as shown below.

*[Begin Correction]*

---

...

*-- Imports definitions from T.124*

**IMPORTS**

TextString, SimpleTextString, DialingString, ExtraDialingString, SubAddressString,  
H221NonStandardIdentifier, Key, NonStandardParameter, ChallengeResponse, ChallengeRequest,  
Privilege

**FROM GCC-PROTOCOL** ~~{itu-t(0)-recommendation(0)-t(20)-124};~~

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*[End Correction]*

**7.13 Technical and Editorial Corrections to ITU-T Recommendation T.136**

*-None-*

**7.14 Technical and Editorial Corrections to ITU-T Recommendation H.282**

*-None-*

**Annex A: T.120 Recommendation Series Defect Report Form**

<b>DATE:</b>	
<b>CONTACT INFORMATION</b> <b>NAME:</b> <b>COMPANY:</b> <b>ADDRESS:</b>  <b>TEL:</b> <b>FAX:</b> <b>EMAIL:</b>	
<b>AFFECTED RECOMMENDATIONS:</b>	
<b>DESCRIPTION OF PROBLEM:</b>	
<b>SUGGESTIONS FOR RESOLUTION:</b>	

Note - Attach additional pages if more space is required than is provided above.

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