



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**I.630**

**Corrigendum 1**  
(03/2000)

SERIES I: INTEGRATED SERVICES DIGITAL  
NETWORK

Maintenance principles

---

ATM protection switching

**Corrigendum 1**

ITU-T Recommendation I.630 – Corrigendum 1

(Formerly CCITT Recommendation)

---

ITU-T I-SERIES RECOMMENDATIONS  
**INTEGRATED SERVICES DIGITAL NETWORK**

<b>GENERAL STRUCTURE</b>	
Terminology	I.110–I.119
Description of ISDNs	I.120–I.129
General modelling methods	I.130–I.139
Telecommunication network and service attributes	I.140–I.149
General description of asynchronous transfer mode	I.150–I.199
<b>SERVICE CAPABILITIES</b>	
Scope	I.200–I.209
General aspects of services in ISDN	I.210–I.219
Common aspects of services in the ISDN	I.220–I.229
Bearer services supported by an ISDN	I.230–I.239
Teleservices supported by an ISDN	I.240–I.249
Supplementary services in ISDN	I.250–I.299
<b>OVERALL NETWORK ASPECTS AND FUNCTIONS</b>	
Network functional principles	I.310–I.319
Reference models	I.320–I.329
Numbering, addressing and routing	I.330–I.339
Connection types	I.340–I.349
Performance objectives	I.350–I.359
Protocol layer requirements	I.360–I.369
General network requirements and functions	I.370–I.399
<b>ISDN USER-NETWORK INTERFACES</b>	
Application of I-series Recommendations to ISDN user-network interfaces	I.420–I.429
Layer 1 Recommendations	I.430–I.439
Layer 2 Recommendations	I.440–I.449
Layer 3 Recommendations	I.450–I.459
Multiplexing, rate adaption and support of existing interfaces	I.460–I.469
Aspects of ISDN affecting terminal requirements	I.470–I.499
<b>INTERNETWORK INTERFACES</b>	<b>I.500–I.599</b>
<b>MAINTENANCE PRINCIPLES</b>	<b>I.600–I.699</b>
<b>B-ISDN EQUIPMENT ASPECTS</b>	
ATM equipment	I.730–I.739
Transport functions	I.740–I.749
Management of ATM equipment	I.750–I.759
Multiplexing aspects	I.760–I.769

*For further details, please refer to the list of ITU-T Recommendations.*

**ATM protection switching**

**CORRIGENDUM 1**

**Summary**

This corrigendum contains only editorial enhancements and corrections, but no technical changes, to the first version (02/99) of ITU-T Recommendation I.630.

**Source**

Corrigendum 1 to ITU-T Recommendation I.630 was prepared by ITU-T Study Group 13 (1997-2000) and approved under the WTSC Resolution 1 procedure on 10 March 2000.

## FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSC Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

## NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

## INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

© ITU 2001

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from ITU.

# ITU-T Recommendation I.630

## ATM protection switching

### CORRIGENDUM 1

#### 1 Introduction

This corrigendum contains only editorial enhancements and corrections, but no technical changes, to the first version (02/99) of ITU-T Recommendation I.630.

#### 2 Clause 3

*Delete the last sentence "Switch action is conducted except when signal fail condition exists for the protection entity to switch over." from item 3.10 forced switch for working entity #n.*

*Replace the definitions of VCG\_P, VCG\_W, VPG\_P and VPG\_W with the following ones:*

**3.32 VCG\_P:** The protection entity in a VC Group protected domain.

**3.33 VCG\_W:** The working entity in a VC Group protected domain.

**3.36 VPG\_P:** The protection entity in a VP Group protected domain.

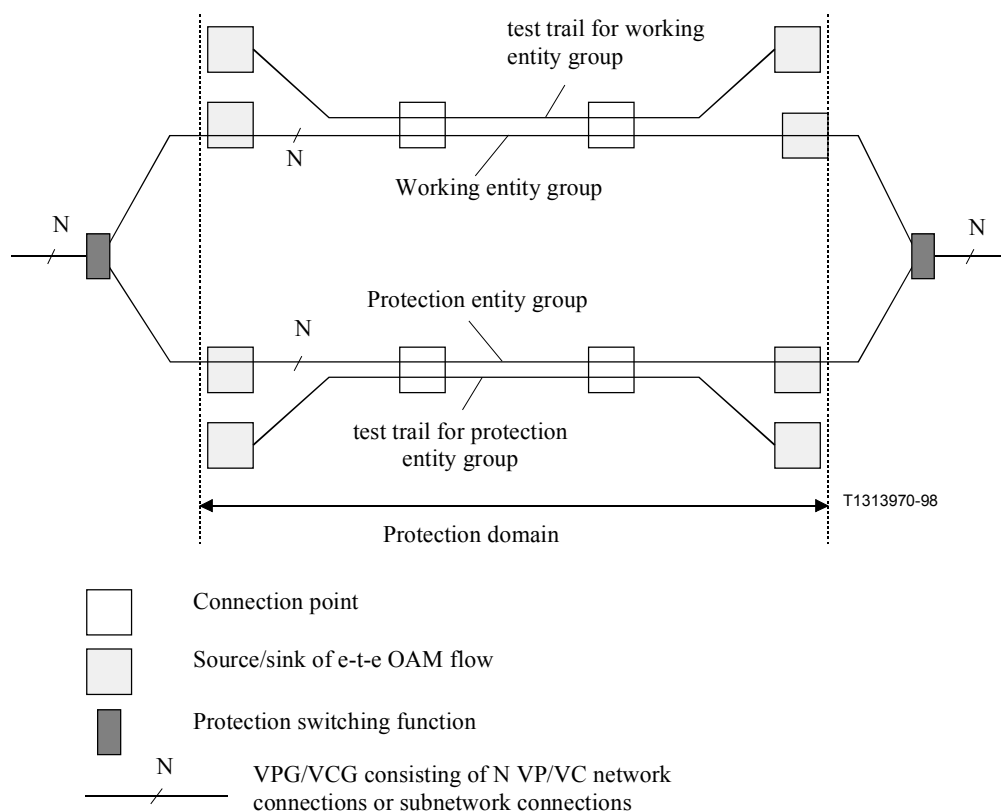
**3.37 VPG\_W:** The working entity in a VP Group protected domain.

*Add the following definition:*

**3.39 normal traffic:** Traffic that is protected by two alternative transport entities, called working and protection entities.

### 3 Subclause 5.3.1

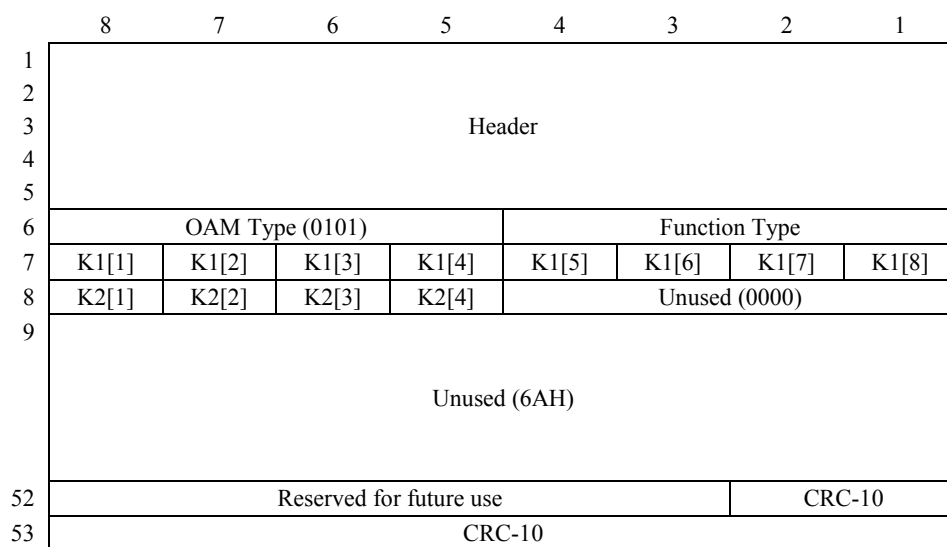
Replace Figure 4/I.630 with the following.



**Figure 4/I.630 – 1+1 or 1:1 trail/T group protection**

### 4 Subclause 5.8

Replace Figure 9/I.630 with the following figure illustrating the relation of the cell's octet bit numbering and the bit numbering in the K1 and K2 octets:



**Figure 9/I.630 – APS cell format**

## SERIES OF ITU-T RECOMMENDATIONS

Series A	Organization of the work of ITU-T
Series B	Means of expression: definitions, symbols, classification
Series C	General telecommunication statistics
Series D	General tariff principles
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
<b>Series I</b>	<b>Integrated services digital network</b>
Series J	Transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	TMN and network maintenance: international transmission systems, telephone circuits, telegraphy, facsimile and leased circuits
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Telephone transmission quality, telephone installations, local line networks
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
Series U	Telegraph switching
Series V	Data communication over the telephone network
Series X	Data networks and open system communications
Series Y	Global information infrastructure and Internet protocol aspects
Series Z	Languages and general software aspects for telecommunication systems