



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.824.3

(10/95)

SPECIFICATIONS OF SIGNALLING SYSTEM No. 7

STAGES 2 AND 3 DESCRIPTION FOR THE Q3 INTERFACE – CUSTOMER ADMINISTRATION – INTEGRATED SERVICES DIGITAL NETWORK (ISDN), OPTIONAL USER FACILITIES

ITU-T Recommendation Q.824.3

(Previously “CCITT Recommendation”)



Documents

Document Sharing Hub

FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (ITU). The 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 their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, March 1-12, 1993).

ITU-T Recommendation Q.824.3 was prepared by ITU-T Study Group 11 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 17th of October 1995.

NOTE

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

© ITU 1996

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 the ITU.

CONTENTS

		<i>Page</i>
1	Introduction	1
1.1	Purpose and scope	1
1.2	Cross-reference	1
1.3	Application	1
1.4	General overview	1
1.5	Managed object naming and attribute syntax	4
2	References	4
3	Optional user facilities object classes	5
3.1	Generic services	5
3.2	Optional user facilities	6
4	Package templates	7
4.1	Local endpoint D-channel	7
4.2	Remote endpoint D-channel	7
5	Attribute templates	7
5.1	Default directory number pointer	7
5.2	Local channel pointer	7
5.3	Local DTE address	7
5.4	Local TEI or SPID	8
5.5	Remote channel pointer	8
5.6	Remote DTE address	8
5.7	Remote TEI or SPID	8
5.8	Service X.25 PVC Id	8
6	Name bindings	9
6.1	Service X.25 PVC	9
7	Type definitions	9
	Appendix I – Initial view for extending the model to closed user groups	10
I.1	Call redirection	11
I.2	Closed User Group	11
I.3	CUG Packet Subscription Option	11
I.4	Attribute Definition	11

SUMMARY

The purpose of this Recommendation is to provide the Stages 2 and 3 description of the Q3 interface between a local exchange and the Telecommunications Management Network (TMN) for the support of configuration management functions in support of customer administration of ISDN optional user facilities (for packet services). Customer administration is a management activity that the network operator performs in order to exchange with the customer all the customer related management data and functions required to offer a telecommunications service and to exchange with the network all the customer related management data and functions necessary for the network to produce that telecommunications service. This Recommendation supports the administration of the customer configuration in the local exchange by the TMN. This Recommendation is part of a series of Recommendations. In this Recommendation the ISDN optional user facilities (for packet services) specific managed objects are defined.

Recommendation Q.824.3

STAGES 2 AND 3 DESCRIPTION FOR THE Q3 INTERFACE – CUSTOMER ADMINISTRATION – INTEGRATED SERVICES DIGITAL NETWORK (ISDN), OPTIONAL USER FACILITIES

(Geneva, 1995)

1 Introduction

1.1 Purpose and scope

Customer administration is a management activity that the network operator performs in order to exchange with the customer all the customer related management data and functions required to offer a telecommunications service and to exchange with the network all the customer related management data and functions necessary for the network to produce that telecommunications service.

The purpose of this Recommendation is to provide the ISDN optional user facilities Stage 2 and 3 description of the Q3 interface between a local exchange and the Telecommunications Management Network (TMN) for the support of configuration management functions.

The Q3 interface is the TMN interface between network elements or Q-adapters which interface to Operations Systems (OSs) without mediation and between OSs and mediation devices as described in Recommendation M.3100.

1.2 Cross-reference

This Recommendation is based on the Stage 1 management service description given in the M.3000-Series Recommendations including Recommendation M.3400. This Recommendation also provides the Stage 2 and 3 descriptions for handling the Customer administration for the ISDN packet optional user facilities based on the service description provided in Recommendations X.2, X.25, X.282, X.283, X.162, I.232, and based on the common Stage 2 and 3 descriptions given in Recommendation Q.824.0. The information model provided by this Recommendation may be used for the Customer administration purposes either over a Q3 interface or over the ISDN UNI as described in Recommendation Q.942.

1.3 Application

The management information included in this Recommendation may be exchanged by implementations of the Common Management Information Service Element (CMISE). The Transaction-Oriented class of OAM&P applications is supported in this Recommendation by defining object classes, their attributes, and their relationships. The protocol suites are given in Recommendations Q.811 and Q.812. No special requirements are identified.

1.4 General overview

1.4.1 Information model diagrams

The following information model diagrams have been drawn for the purpose of clarifying the relations between the different object classes of Customer administration. There are three different types of diagrams:

- 1) Entity-Relationship Model showing the relationship of the different managed objects.
- 2) Inheritance Hierarchy showing how managed objects are derived from each other (i.e. the different paths of inherited characteristics of the different managed objects).
- 3) Naming Hierarchy showing the derivation of names for managed objects (i.e. the different naming paths for instances of managed objects).

These three different diagrams are only for clarification. The formal specification in terms of GDMO templates and ASN.1 type definitions are the relevant information for the implementation of this Recommendation. See Figures 1 to 3.



Documents

Document Sharing Hub