



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.639

(10/96)

**SERIES X: DATA NETWORKS AND OPEN SYSTEM
COMMUNICATION**

OSI networking and system aspects – Efficiency

**Basic connection-oriented requirements
for ROSE-based profiles**

ITU-T Recommendation X.639

(Previously CCITT Recommendation)

ITU-T X-SERIES RECOMMENDATIONS
DATA NETWORKS AND OPEN SYSTEM COMMUNICATION

PUBLIC DATA NETWORKS	X.1-X.199
Services and facilities	X.1-X.19
Interfaces	X.20-X.49
Transmission, signalling and switching	X.50-X.89
Network aspects	X.90-X.149
Maintenance	X.150-X.179
Administrative arrangements	X.180-X.199
OPEN SYSTEM INTERCONNECTION	X.200-X.299
Model and notation	X.200-X.209
Service definitions	X.210-X.219
Connection-mode protocol specifications	X.220-X.229
Connectionless-mode protocol specifications	X.230-X.239
PICS proformas	X.240-X.259
Protocol Identification	X.260-X.269
Security Protocols	X.270-X.279
Layer Managed Objects	X.280-X.289
Conformance testing	X.290-X.299
INTERWORKING BETWEEN NETWORKS	X.300-X.399
General	X.300-X.349
Satellite data transmission systems	X.350-X.399
MESSAGE HANDLING SYSTEMS	X.400-X.499
DIRECTORY	X.500-X.599
OSI NETWORKING AND SYSTEM ASPECTS	X.600-X.699
Networking	X.600-X.629
Efficiency	X.630-X.649
Naming, Addressing and Registration	X.650-X.679
Abstract Syntax Notation One (ASN.1)	X.680-X.699
OSI MANAGEMENT	X.700-X.799
Systems Management framework and architecture	X.700-X.709
Management Communication Service and Protocol	X.710-X.719
Structure of Management Information	X.720-X.729
Management functions	X.730-X.799
SECURITY	X.800-X.849
OSI APPLICATIONS	X.850-X.899
Commitment, Concurrency and Recovery	X.850-X.859
Transaction processing	X.860-X.879
Remote operations	X.880-X.899
OPEN DISTRIBUTED PROCESSING	X.900-X.999

For further details, please refer to ITU-T List of Recommendations.

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 X.639 was prepared by ITU-T Study Group 7 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 5th of October 1996.

NOTE

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

© ITU 1997

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 Scope.....	1
1.1 General.....	1
1.2 Scenario	1
2 Normative references	1
2.1 Identical ITU-T Recommendations International Standards	2
2.2 Paired Recommendations International Standards equivalent in technical content.....	2
2.3 Additional references.....	2
3 Definitions.....	2
3.1 Support level.....	3
4 Abbreviations	3
5 Remote Operations Service Element (ROSE).....	3
6 Association Control Service Element (ACSE).....	3
7 Presentation layer	3
8 Session layer.....	3
9 Compliance	5
9.1 Compliance statement.....	5
9.2 Relationship with base standards.....	5
9.3 Relationship with Recommendation X.638	6
Annex A – Profile Requirements Lists for ROSE, ACSE, Presentation and Session	6
A.1 General.....	6
A.2 References	6
A.3 Classification of requirements	6
A.4 Value of the 'Role-Variables' used in Annex A, B and C of Recommendation X.638.....	7
A.5 ROSE PRL.....	8
A.6 ACSE PRL.....	8
A.7 Presentation PRL	8
A.8 Session PRL.....	8
A.9 List of conditional statements	8
Annex B – Profile ICS Proforma for ROSE implementations	9
B.1 General.....	9
B.2 Classification of requirements	9
B.3 Supported roles	9
B.4 Support of BIND/UNBIND parameters	9
B.5 Support of Operations.....	10

SUMMARY

This Recommendation describes the common upper layer requirements above and beyond those specified in Recommendation X.637 to support ROSE-based profiles which do not use the services of the RTSE. These common elements are specified by reference to the OSI connection-mode Recommendations for the ROSE protocol, the ACSE protocol, the Presentation layer protocol and the Session layer protocol.

This is one of a series of Recommendations to support the minimal OSI functions in the upper layers. It is technically aligned with ISO/IEC ISP 11188-2.

Page 11/11
p. 11