

INTERNATIONAL
STANDARD

ISO/IEC
8348

Third edition
2002-11-01

**Information technology — Open Systems
Interconnection — Network service
definition**

*Technologies de l'information — Interconnexion des systèmes
ouverts — Définition du service de réseau*

Reference number
ISO/IEC 8348:2002(E)



© ISO/IEC 2002

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO/IEC 2002

All rights reserved. Unless otherwise specified, 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 either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

CONTENTS

	<i>Page</i>
SECTION 1 – GENERAL	1
1 Scope	1
2 Normative references	1
2.1 Identical Recommendations International Standards	1
2.2 Additional references	2
3 Definitions	2
3.1 Basic reference model definitions	2
3.2 Service conventions definitions	3
3.3 Network Service definitions	3
3.4 Network addressing definitions	3
3.5 Network layer architecture definitions	4
4 Abbreviations	4
5 Conventions	5
5.1 General conventions	5
5.2 Parameters	5
5.3 NC end-point identification convention	5
6 Overview and general characteristics	5
7 Types and classes of Network Service	6
SECTION 2 – DEFINITION OF THE CONNECTION-MODE SERVICE	6
8 Features of the connection-mode Network Service	6
9 Model of the connection-mode Network Service	7
9.1 Model of the connection-mode Network Layer Service	7
9.2 Model of a Network Connection	7
10 Quality of the connection-mode Network Service	11
10.1 Determination of QOS	11
10.2 Definition of QOS-parameters	12
11 Sequence of primitives	15
11.1 Relation of primitives at the two NC end-points	15
11.2 Sequence of primitives at one NC end-point	15
12 Connection establishment phase	18
12.1 Function	18
12.2 Types of primitives and parameters	18
12.3 Sequence of primitives	26
13 Connection release phase	26
13.1 Function	26
13.2 Types of primitive and parameters	27
13.3 Sequence of primitives when releasing an established NC	28
13.4 Sequence of primitives in an NS user rejection of an NC establishment attempt	29
13.5 Sequence of primitives in an NS provider rejection of an NC establishment attempt	29
14 Data transfer phase	30
14.1 Data transfer	30
14.2 Receipt confirmation service	31
14.3 Expedited data transfer service	32
14.4 Reset service	33
SECTION 3 – DEFINITION OF THE CONNECTIONLESS-MODE SERVICE	36
15 Features of the connectionless-mode Network Service	36
16 Model of the connectionless-mode Network Service	36
16.1 Model of the connectionless-mode Network Layer Service	36
16.2 Model of a network connectionless-mode transmission	36