

11. Generic Operations Interfaces  
 11.1 Non-OSI Communications Architecture

CONTENTS

11. Generic Operations Interfaces . . . . .	11.1-1
11.1 Generic Operations Interfaces -Non-OSI Communications Architecture . . . . .	11.1-3
11.1.1 Revision History . . . . .	11.1-4
11.1.2 Choice of Protocols for Layers 1, 2, and 3 . . . . .	11.1-5
11.1.3 Network Architectural Considerations . . . . .	11.1-6
11.1.3.1 LAPB . . . . .	11.1-7
11.1.3.2 X.25 Packet Layer . . . . .	11.1-9
11.1.4 Security Requirements . . . . .	11.1-10
11.1.4.1 Protocol Provisions . . . . .	11.1-10
11.1.4.2 Message Provisions . . . . .	11.1-10
11.1.5 Protocol Specifications . . . . .	11.1-11
11.1.5.1 Physical Layer . . . . .	11.1-11
11.1.5.2 Data Link Layer . . . . .	11.1-18
11.1.5.3 Network Layer . . . . .	11.1-21
11.1.5.4 Application Layer . . . . .	11.1-29
11.1.6 Acronyms . . . . .	11.1-30
11.1.7 Glossary . . . . .	11.1-32
11.1.8 References . . . . .	11.1-38
INDEX . . . . .	Index-1

LIST OF FIGURES

Figure 11.1-1. Model of OS and NE Communications Protocol . . . . . 11.1-3  
Figure 11.1-2. Networking with LAPB and X.25 . . . . . 11.1-6  
Figure 11.1-3. Typical Microcomputer Architecture . . . . . 11.1-7  
Figure 11.1-4 LAPB (Layer 2 of X.25) and X.25 (Layers 1, 2, and 3)  
Interfaces . . . . . \* . . . . . 11.1-8  
Figure 11.1-5. Alternate Communications Modes . . . . . 11.1-9  
Figure 11.1-6. Physical Layer for 1200-9600 b/s . . . . . 11.1-12

LIST OF TABLES

Table 11.1-1. EIA-232-C Pin Description . . . . . 11.1-14  
Table 11.1-2. EIA-232-D Pin Description . . . . . 11.1-15  
Table 11.1-3. V.35, ISO 2593 Pin Description . . . . . 11.1-16  
Table 11.1-4. Summary of LAPB Data Link Layer Attributes . . . . . 11.1-20  
Table 11.1-5. Packet Types . . . . . 11.1-23