
Section 10.12: IWSS/OSS Switch Interface

Contents

1. Introduction.....	1-1
1.1 Evolutionary Steps	1-1
1.2 Relation to Other Requirements Documents.....	1-2
1.3 Generic Requirements Terminology	1-2
1.4 Document Organization	1-3
2. Interfaces Used to Transport the Application Layer Messages	2-1
2.1 Remote and Local Connections	2-3
3. Abstract Syntax and Transfer Syntax Notation.....	3-1
3.1 ASN.1 Example.....	3-2
4. Messages and Message Procedures.....	4-1
4.1 Version Identification and Compatibility.....	4-1
4.2 Phase 1 Implementations.....	4-3
4.3 Phase 2 Implementations.....	4-7
4.4 Maintenance	4-13
5. Parameters and Parameter Procedures	5-1
5.1 Message Header Parameters	5-3
5.2 Call Presentation Parameters.....	5-5
5.3 Call Charging Parameters	5-15
5.4 Operator Call Control Parameters.....	5-43
5.5 Operator Logon/Logout Parameters.....	5-56
5.6 General Functions Parameters.....	5-64
5.7 General Information Parameters (Available to Operators)	5-74
5.8 Supervisor and Force Administrator Operator Parameters	5-77
5.9 Error Conditions and Parameters	5-83
5.10 Parameter Index	5-87
6. Parameter Field Definitions	6-1
6.1 Field Formats	6-1
6.2 IWSS Field Value Information	6-2
6.3 Field Definitions.....	6-2
7. Maintenance Messaging.....	7-1
References	References-1
Glossary.....	Glossary-1

Requirements List.....Requirements List-1

List of Figures

Figure 2-1.	ISDN and TCAP Protocol Stacks.....	2-2
Figure 2-2.	Remote and Local Connections Between an IWSS and an OSS Switch .	2-4
Figure 3-1.	Format of Data Elements Using BER.....	3-1
Figure 3-2.	Sample ASN.1 Specification	3-2
Figure 4-1.	ASN.1 Description for Phase 1 Implementations.....	4-4
Figure 4-4.	ASN.1 Description for CallUpdate Message.....	4-9
Figure 4-5.	ASN.1 Description for CallSuspend Message.....	4-9
Figure 4-6.	ASN.1 Description for CallResume Message	4-10
Figure 4-7.	ASN.1 Description for CallEnd Message.....	4-11
Figure 4-8.	ASN.1 Description for NonCallUpdate Message.....	4-11

List of Tables

Table 4-1.	Example of Byte Encoding for a Phase 1 Message	4-6
Table 4-2.	Example of Byte Encoding for a Phase 2 Message	4-12
Table 5-1.	Example of Parameters Sent During Call Presentation	5-6
Table 5-2.	Example of Parameters Sent During a Calling Card Call	5-17
Table 5-3.	Example of Parameters Sent During a Collect Call	5-19
Table 5-4.	Example of Parameters Sent During a Third Number Billed call	5-21
Table 5-5.	Example of Parameters Sent During a Coin Call	5-24
Table 5-6.	Example of Parameters Sent During a Handoff to an Automated System	5-27
Table 5-7.	Example of Parameters Sent During Call Connection (using Directory Number Request).....	5-45
Table 5-8.	Example of Parameters at a General Operator's Position During a Transfer to Service Assistant.....	5-46
Table 5-9.	Example of Parameters Sent During Call Cancel.....	5-47
Table 5-10.	Example of Parameters Sent During Call Release	5-47
Table 5-11.	Example of Parameters Sent During Operator Logon.....	5-58
Table 7-1.	Format of a Switch Maintenance Message.....	7-1
Table 7-2.	Format of a Solicited IWSS Maintenance Message	7-3
Table 7-3.	Format of an Unsolicited IWSS Maintenance Message	7-4