

Contents

Preface	Preface-1
1. Introduction	1-1
1.1 Definition	1-1
1.2 High-Level Feature Description	1-2
1.3 Requirements Terminology	1-2
1.3.1 Requirement Labeling Conventions	1-3
1.3.2 Numbering of Requirement and Related Objects	1-3
1.4 Feature Flow Diagram Symbols	1-4
2. User Perspective	2-1
3. Feature Requirements	3-1
3.1 Feature Operations	3-1
3.1.1 Feature Status Level Operations	3-3
3.1.2 List-Editing Level Operations	3-13
3.1.3 Other Feature Operations	3-52
3.1.4 Release Treatment	3-54
3.1.5 Interrupt Treatment	3-55
3.1.6 Error Treatment and Abnormal Events	3-55
3.2 Internal Call Processing Controls	3-58
3.2.1 Connections	3-58
3.2.2 Class of Service	3-59
3.2.3 Code Interpretation	3-59
3.2.4 Overload	3-59
3.3 Signaling	3-60
3.3.1 Customer Loop	3-60
3.3.2 Customer Signaling	3-60
3.3.3 InterSPCS DC Signaling	3-61
3.3.4 Common Channel Signaling	3-61
3.3.5 Operator Service Signaling	3-77
3.4 Transmission	3-77
3.5 Administration	3-78
3.5.1 Service Changes	3-78
3.5.2 Installation	3-81
3.5.3 Person-to-System Interface	3-81
3.5.4 Traffic Measurements	3-81
3.5.5 Maintenance Measurements	3-82
3.5.6 Billing and Comptroller	3-82
3.5.7 Data Items and Usage	3-88
3.6 Maintenance	3-88
3.6.1 Automated System Maintenance	3-88
3.6.2 Manual System Maintenance	3-88
3.6.3 Input/Output Messages	3-88
3.7 Performance	3-89

3.8	Interactions	3-89
3.9	Limitations and Restrictions	3-93
3.9.1	Restriction Capability	3-94
3.10	Timing and Tolerances	3-94
3.10.1	Timers	3-94
3.10.2	Interdigit Timing	3-95
3.10.3	Announcement Timing	3-95
3.11	Announcements	3-96
Appendix A: Additional Notes on Centrex		A-1
Appendix B: SS7 TCAP Message Formats for Screening List Editing		B-1
B.1	TCAP Information for Query Messages	B-2
B.2	TCAP Information for Response Messages	B-6
B.3	TCAP Information for Return Error Messages	B-8
B.4	TCAP Information for Reject Messages	B-10
B.5	TCAP Information for Messages That Report Errors in Return Results	B-12
B.6	TCAP Information for Abort Messages	B-14
Appendix C: SS7 TCAP Parameters Formats for SLE Validation		C-1
C.1	Originating Restrictions	C-1
C.2	DN-to-Line Service-Type Mapping	C-1
C.3	Error Codes	C-2
C.4	Digits	C-3
References		References-1
Glossary		Glossary-1

List of Figures

Figure 3-1.	Feature-Status Level	3-4
Figure 3-2.	Confirm Remote DN	3-6
Figure 3-3.	Enter Remote DN	3-7
Figure 3-4.	Listing Editing (1 of 2)	3-15
Figure 3-5.	Change Status	3-19
Figure 3-6.	Add First Entry to List	3-20
Figure 3-7.	Add Entry to List (1 of 3)	3-24
Figure 3-8.	Delete Entry from List (1 of 3)	3-37
Figure 3-9.	List Review (1 of 2)	3-45
Figure 3-10.	Delete Entry During List Review	3-47
Figure 3-11.	Delete All Entries	3-51
Figure 3-12.	Delete All Anonymous Entries	3-52
Figure 3-13.	Save Status and List	3-54

List of Tables

Table 3-1.	Denial Provided to a Customer Based on the Return Cause Value Received in an SCCP N-Notice Indication Primitive . . .	3-69
Table 3-2.	Denial Provided to a Customer Based on the Cause Value Received in a TCAP Message Failure Primitive	3-71
Table 3-3.	SLE Announcements	3-97
Table B-1.	TCAP Information for Query Messages	B-2
Table B-2.	TCAP Information for Response to Query with Return Result Component	B-6
Table B-3.	TCAP Information for Return Error Message	B-8
Table B-4.	TCAP Information for Reject Messages	B-10
Table B-5.	TCAP Information for 'Report Error' Messages	B-12
Table B-6.	TCAP Information for 'Abort' Messages	B-14