

User Interface Generic Requirements for Supporting Network Element
Operations

CONTENTS

[Telcordia GR-826-Documentation Information](#)

Preface	xv
I. Introduction.	1-1
1.1 Goal of Document	1-1
1.2 Relationship with Industry Standards	1-1
1.3 Definition of Criteria	1-2
1.4 Organization of Document	1-3
2. User Interface	2-1
2.1 Standards Terminology	2-1
2.2 Scope of Criteria	2-2
3. Network Operations Applications	3-1
3.1 Network Operations Categories	3-2
3.2 Network Operations Tasks	3-3
4. Presentation Elements	4-1
4.1 Windows	4-1
4.1.1 Window Components	4-1
4.1.2 Window Management Functions	4-2
4.2 Icons	4-5
4.2.1 Icon Components	4-6
4.2.2 Iconified Window Management Functions	4-6
4.3 Menus	4-7
4.3.1 Menu Components	4-7
4.3.2 Menu Item Selection and Execution	4-8
4.3.3 Menu Types	4-9
4.4 Dialog Boxes	4-10
4.4.1 Dialog Box Components	4-10
4.4.2 Dialog Box Types	4-11
4.5 Names	4-11
4.5.1 Address Identifiers	4-12
4.5.2 Abbreviations	4-12
4.6 Textual Messages	4-12
4.7 Buttons	4-12
4.7.1 Button Components	4-13
4.7.2 Operations of a Button	4-13
4.7.3 Button Types	4-13
4.8 Scroll Bars	4-15
4.8.1 Scroll Bar Components	4-16
4.8.2 Operations of Scroll Bars	4-16

4.9	Scales	4-17
4.9.1	Scale Components	4-17
4.9.2	Operations of Scales	4-18
4.10	Steppers	4-18
4.10.1	Stepper Components	4-18
4.10.2	Operations of Steppers	4-19
4.11	Text-Entry Fields	4-19
4.11.1	Text-Entry Field Components	4-19
4.11.2	Text-Entry Field Management Functions	4-19
4.12	List Boxes	4-20
4.12.1	List Box Components	4-20
4.12.2	List Box Management Functions	4-21
4.13	Combination Boxes	4-21
4.13.1	Combination Box Components	4-22
4.13.2	Operations of Combination Boxes	4-22
4.14	Symbols	4-23
4.14.1	Symbol Appearance	4-23
4.14.2	Sample Object Symbols	4-24
4.15	Schemas	4-26
4.15.1	Schema Components	4-26
4.15.2	Schema Management Functions	4-27
4.15.3	Schema Types	4-27
4.16	Tables	4-28
4.16.1	Table Components	4-28
4.16.2	Table Management Functions	4-30
4.16.3	Operations of Cells	4-30
4.17	Colors	4-30
5.	Administrative Elements	5-1
5.1	Help Facility	5-1
5.2	Utilities	5-2
5.2.1	Control Panel Utility	5-2
5.2.2	Notepad Utility	5-2
5.2.3	Table/Report Editor Utility	5-2
5.2.4	Task History Utility	5-2
5.2.5	Search Utility	5-3
5.2.6	File Management Utility	5-3
5.2.7	Scheduler Utility	5-3
5.2.8	Printer Utility	5-3
5.2.9	Cascading Utility	5-3
5.3	Online Documentation	5-4
5.4	Electronic Mail	5-4
5.5	Time and Date	5-4
6.	Input Mechanism	6-1
6.1	Keyboard	6-1

6.1.1	Function Keys	6-1
6.1.2	Accelerators	6-1
6.2	Pointing Device	6-2
6.2.1	Mouse	6-3
7.	Dialog Methods	7-1
7.1	General Dialog Structure	7-1
7.2	Menu Dialog	7-2
7.2.1	Structuring of Menus	7-2
7.2.2	Sequencing of Menu Items	7-3
7.2.3	NE Selection	7-4
7.3	Command Language Dialog	7-4
7.3.1	Command-Language Dialog	7-5
7.3.2	Command Language Access	7-5
7.3.3	Input Considerations	7-6
7.3.4	Input Structure and Syntax	7-6
7.3.5	Output Considerations	7-7
7.3.6	Output Structure and Syntax	7-8
7.3.7	Autonomous Responses	7-9
7.3.8	Normal Responses	7-9
7.3.9	Error Responses	7-10
7.3.10	Response Times	7-10
7.3.11	Feedback and Help	7-11
7.4	Form-Filling Dialog	7-11
7.4.1	Layout	7-12
7.4.2	Control	7-13
7.4.3	Navigation	7-14
7.4.4	Entry Fields	7-14
7.4.5	Choice Entries	7-14
7.4.6	Defaults	7-15
7.4.7	Parameter Values	7-15
7.5	Direct Manipulation Dialog	7-16
7.5.1	Input Considerations	7-16
7.5.2	Output Considerations	7-16
8.	Application of Menu-Driven Dialogs	8-1
8.1	Task Menu	8-2
8.2	Action Menus	8-3
8.2.1	Logon/Logoff-Action Menu	8-4
8.2.2	Provisioning-Action Menu	8-4
8.2.3	Maintenance-Action Menu	8-4
8.2.4	Administration-Action Menu	8-5
8.2.5	Software-Action Menu	8-5
8.3	Object Menus	8-5
8.3.1	Provisioning-Object Menus	8-6
8.3.2	Maintenance-Object Menus	8-7

8.3.3	Administration-Object Menus	8-8
8.3.4	Software-Object Menus	8-10
8.3.5	Help-Object Menu	8-10
8.4	Object Submenus	8-10
8.4.1	Cross-Connect Object Submenus	8-11
8.4.2	Conference Object Submenus	8-11
8.4.3	Attribute Object Submenus	8-12
8.4.4	Section DCC Object Submenus	8-12
8.4.5	Access Privilege Object Submenus	8-13
8.5	Dialog Boxes	8-14
8.5.1	Logon/Logoff Dialog Boxes	8-15
8.5.2	Provisioning Dialog Boxes	8-15
8.5.3	Maintenance Dialog Boxes	8-22
8.5.4	Administration Dialog Boxes	8-31
8.5.5	Software Dialog Boxes	8-36
8.6	List Boxes	8-38
8.6.1	SONET Map List Boxes	8-38
8.6.2	Cross-Connect List Boxes	8-39
8.7	Help Facility	8-40
8.7.1	Menu System	8-40
8.7.2	Action Verbal List	8-48
8.8	Summary of Menu Hierarchy	8-53
References	References-1
Glossary	Glossary-1

LIST OF FIGURES

Figure 2-1. Examples of User Interfaces	2-2
Figure 4-1. Examples of Action Buttons	4-13
Figure 4-2. Examples of Exclusive-Setting Buttons	4-14
Figure 4-3. Examples of Non-Exclusive Setting Buttons	4-15
Figure 4-4. Examples of Scales	4-18
Figure 4-5. Examples of Steppers	4-18
Figure 4-6. Example of a Combination Box	4-22
Figure 6-1. Mouse Buttons	6-3

LIST OF TABLES

Table 4-1. Symbols for a Sample of Equipment Classes	4-25
Table 4-2. Colors	4-31
Table 6-1. Function Keys....	6-1
Table 6-2. Accelerator Keys	6-2