

Contents

Interface to Loop Test Systems	FSD 40-02-0301
Dialable Cable Pair Locator Tone	FSD 40-04-0100



Performance from Experience

LSSGR: Interface to Loop Test Systems (FSD 40-02-0301)

A Module of LSSGR, FR-64

Telcordia Technologies Generic Requirements
GR-536-CORE
Issue 1
June 2000
(Formerly TR-TSY-000536, Issue 2, July 1987)

Comments Requested (See Preface)

Contents

Preface	Preface-1
1. Introduction	1-1
1.1 Definition	1-1
1.2 Overview	1-1
1.2.1 Operations Work Center	1-2
1.2.2 Operations System	1-2
1.2.2.1 Local Test Desk	1-2
1.2.2.2 Mechanized Loop Test System	1-2
1.2.2.3 Detection of Unauthorized Equipment Hardware	1-3
1.2.2.4 SARTS	1-3
1.2.3 SPCS/OS Interface	1-3
1.2.3.1 NTT	1-3
1.2.3.2 Outgoing Test Trunk	1-3
2. Features and Capabilities	2-1
2.1 Switch Independent Features	2-1
2.2 Switch Dependent Features	2-1
3. Interface Requirements	3-1
3.1 Protocols	3-1
3.1.1 Protocol 1	3-1
3.1.1.1 User-Switch Interactions - NTT	3-1
3.1.1.2 User-Distinguishable NTT States	3-1
3.1.1.3 Changes Between States	3-5
3.1.2 Protocol 2	3-13
3.1.2.1 User-Switch Accessing Interactions - OGT	3-13
3.1.2.2 User-Distinguishable OGT States	3-13
3.1.2.3 Changes Between States	3-14
3.2 Application Layer	3-15
3.2.1 Character Sets	3-15
3.2.2 Languages	3-15
3.2.3 Application Layer Protocol	3-15
3.2.4 Messages and Transmissions	3-15
3.2.4.1 Input Messages	3-15
3.2.4.2 Output Messages	3-16
3.2.4.3 Other Transmissions	3-17
3.3 Switch Dependent Attributes	3-17
3.4 Performance	3-17
3.5 Operations and Maintenance	3-17
3.5.1 Initialization	3-17
3.5.1.1 Foreign Voltages	3-17
3.5.1.2 Balance	3-18
3.5.1.3 Noise	3-18
3.5.1.4 Leakage	3-18

3.5.1.5	Trunk Resistance	3-18
3.5.1.6	Sleeve Detector Tolerance to 60 Hz Current	3-18
3.5.2	Testing	3-18
3.5.3	Routine Maintenance	3-19
3.5.4	Recovery	3-19
3.5.5	Back Up Arrangements	3-19
3.5.6	Unexpected Events	3-19
3.6	Switch Dependent Exceptions	3-19
3.6.1	Post Access Testing Requirements (Solid State Switching Systems)	3-19
3.6.1.1	Leakage Magnitude	3-19
3.6.1.2	Leakage Variation	3-20
3.6.1.3	Maximum AC Parasitics	3-20
3.6.1.4	Balance of AC Parasitics	3-20
3.6.1.5	Office Contrast - AC Parasitics	3-20
3.6.1.6	Series Impedance Magnitude	3-20
3.6.1.7	Series Impedance Balance	3-21
3.6.1.8	Linearity	3-21
3.6.1.9	Low Frequency Noise	3-21
3.6.1.10	Leakage Balance and Contrast	3-21
3.6.1.11	Set-Up Time	3-21
3.6.1.12	Traffic Requirements	3-22
3.6.1.13	Current Limiting	3-22
3.6.1.14	Voltage Limiting	3-22
4.	Feature Flow Diagram	4-1
	References	References-1
	Glossary	Glossary-1
	Definitions	Glossary-3



Performance from Experience

LSSGR: Dialable Cable Pair Locator Tone (FSD 40-04-0100)

A Module of LSSGR, FR-64

Telcordia Technologies Generic Requirements
GR-536-CORE
Issue 1
June 2000
(Formerly TR-TSY-000536, Issue 2, July 1987)

Comments Requested (See Preface)

Contents

Preface	Preface-1
1. Introduction	1-1
1.1 Definition	1-1
1.2 Background	1-1
1.3 High Level Feature Description	1-1
2. User Perspective	2-1
2.1 Normal User/System Interactions	2-1
2.2 Abnormal User/System Interactions	2-1
3. Feature Requirements	3-1
3.1 Feature Operations	3-1
3.1.1 Main Feature Operations	3-1
3.1.2 Other Feature Operations	3-1
3.1.2.1 Completed as Requested	3-1
3.1.2.2 Cannot Be Completed as Requested	3-1
3.1.3 Release Treatment	3-1
3.1.4 Interrupt Treatment	3-1
3.1.5 Error Treatment and Abnormal Events	3-2
3.2 Internal Call Processing Controls	3-2
3.2.1 Connections	3-2
3.2.2 Class of Service	3-2
3.2.3 Code Interpretation	3-2
3.2.4 Screening	3-2
3.2.5 Routing	3-2
3.2.6 Charge Treatment Determination	3-2
3.2.7 Overload	3-2
3.3 Signaling	3-3
3.3.1 Customer Loop	3-3
3.3.2 Customer Signaling	3-3
3.3.2.1 Customer to Office Supervision	3-3
3.3.2.2 Office to Customer Supervision	3-3
3.3.2.3 Customer to Office - Address Signaling	3-3
3.3.2.4 Office to Customer - Information Signaling	3-3
3.3.3 Intersystem Dc Signaling	3-4
3.3.4 Intersystem Ac Signaling	3-4
3.3.5 Operator Service Signaling	3-4
3.4 Transmission	3-4
3.5 Administration	3-4
3.5.1 Service Changes	3-4
3.5.1.1 Telephone Company (System)	3-4
3.5.2 Installation	3-4
3.5.3 Modification or Retrofit	3-4
3.5.4 Person/system Interface	3-4

3.5.5	Traffic Measurements	3-4
3.5.6	Maintenance Measurements	3-4
3.5.7	Network Management	3-4
3.5.8	Billing and Comptroller	3-4
3.5.9	Quantities	3-5
3.5.10	Data Items and Usage	3-5
3.6	Maintenance	3-5
3.6.1	Automated System Maintenance	3-5
3.6.2	Manual System Maintenance	3-5
3.6.3	Line Maintenance	3-5
3.6.4	Trunk Maintenance	3-5
3.6.5	Input/output Messages	3-5
3.6.6	Customer Tests	3-5
3.7	Performance	3-5
3.8	Interactions	3-5
3.9	Limitations and Restrictions	3-5
3.9.1	Unusual Feature Operation	3-5
3.9.2	Restriction Capability	3-6
3.10	Timing and Tolerances	3-6
4.	Feature Flow Diagram	4-1
	References	References-1
	Glossary	Glossary-1
	Definitions	Glossary-1
	Index - Trunk, Line, and Special Service Circuit Test	Glossary-3