

Contents

Generic Requirements Notice Of Disclaimer	iii
List of Tables	viii
Preface	ix
Telcordia Interactive GR Process	ix
FA-TA-TR to GR	ix
Transition Phase	ix
Comments and Issues List Report Mechanism	x
GR-1272-CORE Current Maturity Level, Status, and Plans	x
Formatting Comments	xi
Where and When to Submit Comments	xi
1 Introduction	
1.1 Purpose and Scope of This Document	1-1
1.2 Related Requirements	1-2
1.3 Other Affected Requirements	1-2
1.4 Organization of this Document	1-2
1.5 Requirements Terminology	1-3
1.6 Superseded Material	1-4
1.7 Reasons for Reissue	1-4
1.8 Difference Markings	1-5
1.9 Summary of Principal Revisions	1-5
2 General Information	
2.1 Background and Motivation	2-1
2.1.1 Overview of the Gateway STP Internetwork Message Screening Process	2-1
2.1.2 Current Gateway STP Administration Capabilities Provided by the SEAS System	2-2
2.1.3 Complexity of the Gateway Screening Process and Its User View	2-2
2.1.4 The Potential for Errored Screening Logic	2-4
2.1.5 Potential Network Vulnerabilities	2-5
2.1.6 The Perceived Need for a Gateway Screening Test Capability	2-5
2.2 Functional Overview	2-6
2.2.1 Test Parameters	2-6
2.2.2 Test Processing	2-6
2.2.3 Results Reporting	2-6
2.2.4 Operations Interfaces	2-7
3 Functional Requirements	
3.1 General Requirements and Terminology	3-1
3.2 Test Access	3-1
3.3 Test Functionality	3-1

3.3.1	Normal Processing	3-2
3.3.2	Exception Processing	3-4
3.3.2.1	Test Denial	3-4
3.3.2.2	Failed or Indeterminate Tests	3-4
3.3.3	Special Considerations	3-5
3.3.3.1	Independence from Other GSTP Operations Functions	3-5
3.3.3.2	Implementation-Specific Considerations Regarding Inactive Screening	3-5
3.4	Test Parameter Inputs	3-6
3.4.1	Sample Message Types and Their Definitions	3-6
3.4.1.1	General	3-6
3.4.1.2	Standard Sample Message Types	3-6
3.4.1.3	Other (General) Sample Messages	3-7
3.4.1.4	Other (Implementation-Specific) Sample Messages	3-7
3.4.1.5	Summary of Sample Message Types and Applicable Test Parameters	3-8
3.4.2	Test Parameters Common to All Sample Message Types	3-8
3.4.3	Test Parameters for MTP-NM Sample Messages	3-10
3.4.4	Test Parameters for MTP Testing and Maintenance (T&M) Sample Messages	3-10
3.4.5	Test Parameters for ISUP Sample Messages	3-11
3.4.6	Test Parameters for SCCP Sample Messages (Non-SCMG)	3-11
3.4.7	Test Parameters for SCCP Management (SCMG) Sample Messages	3-13
3.4.8	Test Parameters for the Other-General Sample Message Type	3-14
3.4.9	Test Parameters for Implementation-Specific (Other) Sample Message Types	3-14
3.5	Test Outputs	3-14
3.5.1	General	3-14
3.5.2	Test Time	3-15
3.5.3	Echo of Sample Message Attributes and Other Test Parameters	3-15
3.5.4	Screening Outcome	3-15
3.5.5	Last Screening Function Performed	3-17
3.5.6	Message Rejection Cause Diagnostics (Blocked Messages)	3-18
3.5.6.1	Message-Rejection Cause	3-18
3.5.6.2	Message Rejection Clarifying Text	3-19
3.5.6.3	Rejected Message Attributes	3-19
3.5.7	Screening Table Logic Error Diagnostics	3-20
3.5.7.1	Types of Screening Table Errors	3-20
3.5.7.2	Anticipated Screening Error Cases and Message Treatment	3-21
3.5.7.3	Applicability of Screening Error Conditions and Treatment Actions	3-25
3.5.7.4	Required Outputs for Screening Table Logic Error Diagnostics	3-25
3.5.8	Test Failure/Abort Diagnostics	3-27
3.5.9	Screening Trace	3-28
3.5.9.1	Definition: Encountered Entities	3-28
3.5.9.2	Screening Trace Content	3-29
3.5.9.3	Use of Reported Screening Actions	3-31

3.5.9.4 Reporting of Attribute Ranges For Encountered Entities	3-32
3.5.10 Implementation-Specific Outputs	3-33
3.6 Operations Interface Support	3-33
3.7 Performance and Capacity	3-34
3.7.1 Response Time	3-34
3.7.2 Support of Simultaneous Tests	3-34

Appendix A: References

Note	Reference-2
To Contact Telcordia Customer Service or to Order Documents . . .	Reference-2
To Order Documents From Within Telcordia (Employees Only) . . .	Reference-2

Appendix B: Glossary

List of Tables

Table 3-1	Summary of GSTP Local Message Screening Test Input Parameters	3-35
Table 3-2	Valid H0, H1 and Affected Destination Field Formats for SS7 MTP-NM Messages	3-37