

Contents

Preface	Preface-1
1. Introduction	1-1
1.1 Purpose and Scope	1-1
1.2 Overview of the Generic State Models	1-2
1.3 Organization of the Document	1-2
1.4 Changes from Issue 1, Revision 1, to Issue 2	1-2
1.4.1 Alarm Reporting Control	1-2
1.4.2 Other Changes	1-3
1.5 Changes from Issue 1 to Issue 1, Revision 1	1-3
1.6 Requirements Terminology	1-4
1.7 Requirement Labeling Conventions	1-5
1.7.1 Numbering of Requirement and Related Objects	1-5
1.7.2 Requirement, Conditional Requirement, and Objective Object Identification	1-5
2. The Telcordia State Model	2-1
2.1 State Parameters	2-1
2.1.1 The Primary State	2-2
2.1.2 The Primary State Qualifier	2-2
2.1.3 The Secondary State	2-6
2.2 State Relationship for Dependent Entity	2-7
2.3 State Information Retrieval	2-8
2.4 State Transition	2-8
2.5 Secondary State Values Description	2-11
2.6 State Model Applications	2-18
2.6.1 Equipment	2-19
2.6.2 Termination Point	2-21
2.6.3 Cross-Connect	2-23
2.6.4 Log	2-24
2.6.5 Signaling Link	2-26
2.6.6 Packet Link	2-28
2.6.7 States for Non-ISDN Subscriber Services	2-30
3. Mapping to the ISO State Model	3-1
3.1 Conformance	3-1
3.2 Overview of the ISO State Model	3-1
3.2.1 The ISO State Attributes	3-1
3.2.2 The ISO Status Attributes	3-2
3.2.3 Alarm Reporting Control	3-4
3.2.3.1 Automatic In-service Provisioning	3-7
3.3 Mapping the Telcordia Primary State and Qualifier	3-8
3.4 Mapping the Telcordia Secondary State	3-8
3.4.1 Direct Mapping	3-9
3.4.2 Mapping of Alarm Reporting Control States	3-10

- 3.4.3 Mapping to Non-State Related Attributes 3-10
- 3.4.4 Category Mapping 3-11
- 3.4.5 Value Qualifier Mapping 3-11
- 3.4.6 Summary of Secondary State Value Mapping 3-14
- 3.5 GDMO and ASN.1 Productions 3-17
 - 3.5.1 Managed Object Classes 3-17
 - 3.5.1.1 additionalStateInfo 3-17
 - 3.5.1.2 additionalStateInfoBCRr1 3-17
 - 3.5.2 Packages 3-18
 - 3.5.2.1 additionalNonReplaceableStatesPkg 3-18
 - 3.5.2.2 additionalReplaceableStatesPkg 3-18
 - 3.5.2.3 additionalStateInfoBCRr1Pkg 3-18
 - 3.5.2.4 backedUpStatusPkg 3-18
 - 3.5.2.5 degradedQualifierPkg 3-19
 - 3.5.2.6 dependencyQualifierPkg 3-19
 - 3.5.2.7 failedQualifierPkg 3-19
 - 3.5.2.8 inTestQualifierPkg 3-19
 - 3.5.2.9 lockedQualifierPkg 3-19
 - 3.5.2.10 notInstalledQualifierPkg 3-20
 - 3.5.2.11 partsOfServicesLockedQualifierPkg 3-20
 - 3.5.2.12 standbyStatusPkg 3-20
 - 3.5.2.13 telecommunicationsControlPkg 3-20
 - 3.5.2.14 telecommunicationsProceduralPkg 3-20
 - 3.5.2.15 telecommunicationsStandbyPkg 3-21
 - 3.5.2.16 unknownStatusPkg 3-21
 - 3.5.2.17 usageStatePkg 3-21
 - 3.5.3 Attributes 3-21
 - 3.5.3.1 additionalStateInfoBCRr1Id 3-21
 - 3.5.3.2 additionalStates 3-21
 - 3.5.3.3 degradedQualifier 3-22
 - 3.5.3.4 dependencyQualifier 3-22
 - 3.5.3.5 failedQualifier 3-22
 - 3.5.3.6 inTestQualifier 3-22
 - 3.5.3.7 lockedQualifier 3-23
 - 3.5.3.8 notInstalledQualifier 3-23
 - 3.5.3.9 partsOfServicesLockedQualifier 3-23
 - 3.5.3.10 telecommunicationsControl 3-23
 - 3.5.3.11 telecommunicationsProcedural 3-24
 - 3.5.3.12 telecommunicationsStandby 3-24
 - 3.5.4 Attribute Groups 3-24
 - 3.5.4.1 bcrAdditionalStates 3-24
 - 3.5.4.2 isoAdditionalStates 3-25
 - 3.5.5 Actions 3-25
 - 3.5.6 Notifications 3-25
 - 3.5.7 Parameters 3-25
 - 3.5.8 Name Bindings 3-25
 - 3.5.9 Behaviours 3-26

3.5.9.1	additionalNonReplaceableStatesPkgBeh	3-26
3.5.9.2	additionalReplaceableStatesPkgBeh	3-26
3.5.9.3	additionalStateInfoBCRr1Beh	3-26
3.5.9.4	additionalStateInfoBCRr1IdBeh	3-26
3.5.9.5	additionalStateInfoBeh	3-26
3.5.9.6	additionalStatesBeh	3-27
3.5.9.7	degradedQualifierBeh	3-27
3.5.9.8	dependencyQualifierBeh	3-27
3.5.9.9	failedQualifierBeh	3-27
3.5.9.10	inTestQualifierBeh	3-27
3.5.9.11	lockedQualifierBeh	3-28
3.5.9.12	notInstalledQualifierBeh	3-28
3.5.9.13	partsOfServicesLockedQualifierBeh	3-28
3.5.9.14	telecommunicationsControlBeh	3-28
3.5.9.15	telecommunicationsProceduralBeh	3-28
3.5.9.16	telecommunicationsStandbyBeh	3-29
3.5.10	ASN.1 Modules	3-29
3.5.10.1	BCRGR1093Mod	3-29
References		References-1
Glossary		Glossary-1

List of Figures

Figure 2-1.	State Transition Examples for Equipment	2-20
Figure 2-2.	State Transition Examples for Termination Point	2-22
Figure 2-3.	State Transition Examples for Cross-Connect	2-23
Figure 2-4.	State Transition Examples for Log	2-25
Figure 2-5.	State Transition Examples for Signaling Link	2-27
Figure 2-6.	State Transition Examples for Packet Link	2-29
Figure 2-7.	State Transition Examples for Non-ISDN Subscriber Services	2-31
Figure 3-1.	Alarm Reporting Control State Diagram	3-6

List of Tables

Table 2-1.	Generic Transition of the Primary State and Qualifier	2-10
Table 2-2.	State Values for Equipment	2-19
Table 2-3.	State Values for Termination Point	2-21
Table 2-4.	State Values for Cross-Connect	2-23
Table 2-5.	State Values for Log	2-24
Table 2-6.	State Values for Signaling Link	2-26
Table 2-7.	State Values for Packet Link	2-28
Table 2-8.	State Values for Non-ISDN Subscriber Services	2-30
Table 3-1.	ISO Status Attributes and Values	3-3
Table 3-2.	Primary State and Qualifier to ISO State/Status Attribute Direct Mapping	3-8
Table 3-3.	Secondary State to ISO State/Status Attribute Direct Mapping .	3-9
Table 3-4.	Secondary State Mapping for Alarm Reporting Control	3-10
Table 3-5.	Secondary State to ISO Non-State-Related Attribute Mapping	3-10
Table 3-6.	Secondary State to ISO Status Category Mapping	3-11
Table 3-7.	Secondary State to ISO State Value Qualifier Mapping	3-12
Table 3-8.	Secondary State to ISO Status Value Qualifier Mapping	3-12
Table 3-9.	Summary of Secondary State Value Mapping	3-14