

---

**SMDS Generic Criteria on Operations  
Interfaces Using OSI Tools —  
SMDS Information Model and Usage**

**CONTENTS**

[Telcordia TR-TSV-001064-Documentation Information](#)

1. Introduction.....	1-1
1.1 Document Organization.....	1-2
2. Changes Affecting the SMDS Information Model in Issue 1.....	2-1
2.1 Managing an SS's Common Equipment .....	2-1
2.2 Propagating, Logging, and Reporting of Operations State Changes.....	2-2
2.2.1 Interaction of Operational State Changes.....	2-3
2.2.2 Logging and Reporting of Operational State Change Events.....	2-5
2.3 Managing SMDS on a Broadband ATM Platform .....	2-5
2.4 Logging of Threshold Crossing Alerts within the SS.....	2-6
2.5 Logging of Database Changes .....	2-6
2.6 Minor Corrections to Templates in Issue 1.....	2-7
2.6.1 Managed Object Class Changes .....	2-7
2.6.2 Attribute Template Change .....	2-7
2.6.3 Name Binding Template Changes.....	2-7
2.7 Clarifications of Referenced Standards and Bellcore Documents .....	2-8
2.7.1 Editorial and Syntactical Changes to ANSI T1.214a .....	2-8
2.7.1.1 Behavior of Code Violation Attribute .....	2-9
2.7.1.2 MeasurementCommonSyntax Change .....	2-9
2.7.1.3 Event Time Attribute.....	2-9
2.7.1.4 MonitoredEntityType Syntax .....	2-9
2.7.2 Object Identifiers for ANSI T1.214a and ANSI T1.229.....	2-9
2.7.3 ds3CTPBidirectional-ds3LineTTPBidirectional Name Binding.....	2-10
2.7.4 Name Bindings for Threshold Data Objects.....	2-10
2.7.5 Name Bindings for DS1 and DS3 Current Data Objects.....	2-10
2.7.6 Performance Scheduled Event Record Name Binding.....	2-11
2.7.7 DS1 Line Loopbacks .....	2-11
3. SMDS Information Model.....	3-1
3.1 Naming and Inheritance Diagrams .....	3-1
3.2 SMDS Information Model Criteria.....	3-17
3.3 SMDS Object Class Summaries .....	3-18
3.3.1 Common Equipment.....	3-18
3.3.2 Performance Spontaneous Event Record.....	3-26
4. Managed Object Classes.....	4-1
4.1 commonEquipment.....	4-1
4.2 performanceSpontaneousEventRecord.....	4-5
5. Packages.....	5-1

---

5.1	availabilityStatusPkg .....	5-1
5.2	backedUpObjectPkg .....	5-1
5.3	invokeProtectionPkg .....	5-1
5.4	primaryPkg .....	5-2
5.5	protectingPkg .....	5-2
5.6	protectionChangeReportingPkg .....	5-2
5.7	releaseProtectionPkg .....	5-3
5.8	secondaryPkg .....	5-3
5.9	standbyStatusPkg .....	5-3
6.	Attributes .....	6-1
6.1	protecting .....	6-1
7.	Name Bindings .....	7-1
7.1	commonEquipment-managedElement .....	7-1
7.2	congResrcCurrData-commonEquipment .....	7-1
7.3	congResrcHistData-commonEquipment .....	7-2
7.4	congResrcState-commonEquipment .....	7-2
7.5	congResrcThresh-commonEquipment .....	7-2
7.6	ds1LineTTPSinkCurrentData-ds1LineTTPBidirectional .....	7-3
7.7	ds1PathTTPSinkCurrentData-ds1PathTTPBidirectional .....	7-3
7.8	ds3LineTTPSinkCurrentData-ds3LineTTPBidirectional .....	7-4
7.9	ds3PathTTPSinkCurrentData-ds3PathTTPBidirectional .....	7-4
7.10	perfScheduledEventRecord-log .....	7-5
7.11	performanceSpontaneousEventRecord-log .....	7-6
7.12	sipCongMeasCurrData-commonEquipment .....	7-6
7.13	sipCongMeasHistData-commonEquipment .....	7-7
7.14	sipLevelCongMeasCurrData-commonEquipment .....	7-7
7.15	sipLevelCongMeasHistData-commonEquipment .....	7-7
8.	Notifications .....	8-1
8.1	protectionChangeReporting .....	8-1
9.	Actions .....	9-1
9.1	invokeProtection .....	9-1
9.2	releaseProtection .....	9-1
10.	Productions .....	10-1
	References .....	R-1

---

---

LIST OF FIGURES

Figure 2-1. Propagation of State Changes through Related Managed Objects .....	2-4
Figure 3-2. Inheritance Tree for Memory Administration.....	3-2
Figure 3-3. Naming Hierarchy for Memory Administration .....	3-3
Figure 3-4. Inheritance Tree for Maintenance (1 of 3).....	3-4
Figure 3-5. Inheritance Tree for Maintenance (2 of 3).....	3-5
Figure 3-6. Inheritance Tree for Maintenance (3 of 3).....	3-6
Figure 3-7. Naming Hierarchy for Maintenance (1 of 2) .....	3-7
Figure 3-8. Naming Hierarchy for Maintenance (2 of 2) .....	3-8
Figure 3-9. Inheritance Tree for Network Traffic Management.....	3-9
Figure 3-10. Naming Hierarchy for Network Traffic Management .....	3-10
Figure 3-11. Inheritance Tree for Network Data Collection (1 of 2) .....	3-11
Figure 3-12. Inheritance Tree for Network Data Collection (2 of 2) .....	3-12
Figure 3-13. Naming Hierarchy for Network Data Collection (1 of 2).....	3-13
Figure 3-14. Naming Hierarchy for Network Data Collection (2 of 2).....	3-14
Figure 3-15. Inheritance Tree for Usage Measurements for Billing.....	3-15
Figure 3-16. Naming Hierarchy for Usage Measurements for Billing.....	3-16