

Table of Contents

SECTION 1 THE SCORM® RUN-TIME ENVIRONMENT (RTE)	1-1
1.1. INTRODUCTION TO THE SCORM RUN-TIME ENVIRONMENT (RTE) BOOK	1-3
1.1.1. What is Covered in the SCORM RTE Book?	1-3
1.1.2. Using the SCORM RTE Book	1-4
1.1.3. Relationship with other SCORM Books	1-4
1.2. RUN-TIME ENVIRONMENT OVERVIEW	1-7
SECTION 2 MANAGING THE RUN-TIME ENVIRONMENT (RTE)	2-1
2.1. RUN-TIME ENVIRONMENT (RTE) MANAGEMENT	2-3
2.1.1. Run-Time Environment Temporal Model	2-4
2.1.2. Launching Content Objects	2-7
2.1.3. Taking Content Objects Away	2-9
SECTION 3 APPLICATION PROGRAMMING INTERFACE (API)	3-1
3.1. APPLICATION PROGRAMMING INTERFACE (API)	3-3
3.1.1. API Overview	3-3
3.1.2. API Methods and Syntax	3-5
3.1.3. Session Methods	3-6
3.1.4. Data-Transfer Methods	3-7
3.1.5. Support Methods	3-9
3.1.6. Communication Session State Model	3-11
3.1.7. API Implementation Error Codes	3-13
3.2. LMS RESPONSIBILITIES	3-27
3.2.1. API Instance	3-27
3.3. SCO RESPONSIBILITIES	3-30
3.3.1. Finding the API Instance	3-30
3.3.2. API Usage Requirements and Guidelines	3-33
SECTION 4 SCORM® RUN-TIME ENVIRONMENT DATA MODEL	A-1
4.1. DATA MODEL OVERVIEW	A-3
4.1.1. SCORM Run-Time Environment Data Model Basics	A-4
4.2. SCORM RUN-TIME ENVIRONMENT DATA MODEL	A-19
4.2.1. Data Model Version	A-22
4.2.2. Comments From Learner	A-23
4.2.3. Comments From LMS	A-30
4.2.4. Completion Status	A-36
4.2.5. Completion Threshold	A-40
4.2.6. Credit	A-41
4.2.7. Entry	A-43
4.2.8. Exit	A-45
4.2.9. Interactions	A-48
4.2.10. Launch Data	A-85
4.2.11. Learner Id	A-87
4.2.12. Learner Name	A-88
4.2.13. Learner Preference	A-89
4.2.14. Location	A-95
4.2.15. Maximum Time Allowed	A-97
4.2.16. Mode	A-98
4.2.17. Objectives	A-100
4.2.18. Progress Measure	A-120
4.2.19. Scaled Passing Score	A-122

4.2.20.	Score	A-124
4.2.21.	Session Time	A-129
4.2.22.	Success Status.....	A-131
4.2.23.	Suspend Data.....	A-135
4.2.24.	Time Limit Action.....	A-137
4.2.25.	Total Time	A-139
APPENDIX A	ACRONYM LISTING.....	A-1
ACRONYM LISTING	A-3
APPENDIX B	REFERENCES.....	B-1
REFERENCES	B-3
APPENDIX C	DOCUMENT REVISION HISTORY	C-1
DOCUMENT REVISION HISTORY	C-3

List of Figures

Figure 1.1a:	The SCORM Run-Time Environment Book as Part of the SCORM Bookshelf.....	1-3
Figure 1.2a:	SCORM Conceptual Run-Time Environment.....	1-8
Figure 2.1a:	Conceptual Content Structure Illustration	2-3
Figure 2.1.1.1a:	Single Learner Attempt with one Learner Session.....	2-6
Figure 2.1.1.1b:	Learner Attempt Spread Over Several Learner Sessions	2-6
Figure 2.1.1.1c:	Successive Learner Attempts, Spread Over Several Learner Sessions	2-6
Figure 3.1.1a:	Illustration of API, API Instance and API Implementation.....	3-4
Figure 3.1.6a:	Conceptual API Instance State Transitions	3-12
Figure 3.2.1a:	Permitted DOM Locations of an API Implementation.....	3-28
Figure 3.3.1a:	Illustration of Finding the API	3-31
Figure 4.1.1a:	Illustration of Using the Data Model with the API	A-3
Figure 4.2.9a:	Interactions and Interaction Data	A-48

List of Tables

Table: 3.1.1b: Categories of API Methods	3-5
Table 3.1.7a: Error Code Categories and Range.....	3-13
Table 4.1.1.6a: Reserved Property Delimiters	A-9
Table 4.1.1.6b: Reserved Separator Delimiters	A-12
Table 4.2a: SCORM Run-Time Environment Data Model Elements Summary	A-19
Table 4.2b: Data Model Element Table Explanation.....	A-20
Table 4.2.1a: Dot-notation Binding for the Data Model Version Data Model Element	A-22
Table 4.2.2a: Dot-notation Binding for the Comments from Learner Data Model Element	A-23
Table 4.2.3a: Dot-notation Binding for the Comment from LMS Data Model Element	A-30
Table 4.2.4a: Dot-notation Binding for the Completion Status Data Model Element	A-36
Table 4.2.4.1a: GetValue() Evaluation of Completion Status	A-38
Table 4.2.5a: Dot-notation Binding for the Completion Threshold Data Model Element.....	A-40
Table 4.2.6a: Dot-notation Binding for the Credit Data Model Element.....	A-41
Table 4.2.7a: Dot-notation Binding for the Entry Data Model Element.....	A-43
Table 4.2.8a: Dot-notation Binding for the Exit Data Model Element.....	A-45
Table 4.2.9a: Dot-notation Binding for the Interactions Data Model Element.....	A-49
Table 4.2.9.1a: Correct Response Pattern Format Requirements	A-68
Table 4.2.9.2a: Learner Response Format Requirements	A-78
Table 4.2.10a: Dot-notation Binding for the Launch Data Data Model Element	A-85
Table 4.2.11a: Dot-notation Binding for the Learner ID Data Model Element	A-87
Table 4.2.12a: Dot-notation Binding for the Learner Name Data Model Element.....	A-88
Table 4.2.13a: Dot-notation Binding for the Learner Preference Data Model Element	A-89
Table 4.2.14a: Dot-notation Binding for the Location Data Model Element	A-95
Table 4.2.15a: Dot-notation Binding for the Max Time Allowed Data Model Element	A-97
Table 4.2.16a: Dot-notation Binding for the Mode Data Model Element	A-98
Table 4.2.16.1a: Mode and Credit Values	A-99
Table 4.2.17.1a: Scenarios for Storing Collection Data	A-101
Table 4.2.17a: Dot-notation Binding for the Objectives Data Model Element.....	A-103
Table 4.2.18a: Progress Measure relationship with Completion Status.....	A-120
Table 4.2.18b: Dot-notation Binding for the Progress Measure Data Model Element	A-120
Table 4.2.19a: Dot-notation Binding for the Scaled Passing Score Data Model Element	A-122
Table 4.2.20a: Dot-notation Binding for the Score Data Model Element.....	A-124
Table 4.2.21a: Dot-notation Binding for the Session Time Data Model Element	A-129
Table 4.2.22a: Dot-notation Binding for the Success Status Data Model Element	A-131
Table 4.2.22.1a: GetValue() Evaluation of Success Status.....	A-133
Table 4.2.23a: Dot-notation Binding for the Suspend Data Data Model Element.....	A-135
Table 4.2.24a: Dot-notation Binding for the Time Limit Action Data Model Element.....	A-137
Table 4.2.25a: Dot-notation Binding for the Total Time Data Model Element.....	A-139