

HL7 Version 2.5 Standard

Table of Contents

CHAPTER 1-INTRODUCTION

1.1	CHAPTER 1 CONTENTS.....	1-1
1.2	PURPOSE	1-2
1.3	BACKGROUND.....	1-3
1.4	NEED FOR A STANDARD.....	1-4
1.5	GOALS OF THE STANDARD	1-5
1.6	HISTORY OF HL7 DEVELOPMENT	1-6
1.7	OVERVIEW	1-6
1.8	THE SCOPE OF HL7	1-6
1.9	REFERENCE DOCUMENTS.....	1-6
1.10	TECHNICAL EDITORS	1-6
1.11	SUGGESTIONS AND COMMENTS.....	1-6

CHAPTER 2 CONTROL

2.1	CHAPTER 2 CONTENTS.....	2-1
2.2	INTRODUCTION	2-4
2.3	CONCEPTUAL APPROACH.....	2-4
2.4	COMMUNICATIONS ENVIRONMENT	2-5
2.5	MESSAGE FRAMEWORK.....	2-6
2.6	MESSAGE CONSTRUCTION RULES	2-13
2.7	USE OF ESCAPE SEQUENCES IN TEXT FIELDS	2-18
2.8	VERSION COMPATIBILITY DEFINITION.....	2-21
2.9	MESSAGE PROCESSING RULES	2-26
2.10	SPECIAL HL7 PROTOCOLS	2-31
2.11	LOCAL EXTENSION	2-39
2.12	CONFORMANCE USING MESSAGE PROFILES.....	2-43
2.13	CHAPTER FORMATS FOR DEFINING HL7 MESSAGES	2-62
2.14	ACKNOWLEDGMENT MESSAGES	2-65
2.15	MESSAGE CONTROL SEGMENTS	2-65
2.16	DATA TYPES.....	2-94
2.17	MISCELLANEOUS HL7 TABLES USED ACROSS ALL CHAPTERS	2-99
2.18	SAMPLE CONTROL MESSAGES.....	2-118

2.19	MESSAGE PROFILE DOCUMENT DEFINITION	2-124
2.20	OUTSTANDING ISSUES.....	2-137

CHAPTER 3 PATIENT ADMINISTRATION

3.1	CHAPTER 3 CONTENTS.....	3-1
3.2	PURPOSE	3-3
3.3	TRIGGER EVENTS AND MESSAGE DEFINITIONS	3-3
3.4	MESSAGE SEGMENTS	3-74
3.5	EXAMPLE TRANSACTIONS.....	3-110
3.6	IMPLEMENTATION NOTES.....	3-110
3.7	REFERENCED ORGANIZATIONS AND DOCUMENTS.....	3-110

CHAPTER 4 ORDER ENTRY

4.1	CHAPTER 4 CONTENTS.....	4-1
4.2	PURPOSE	4-2
4.3	QUANTITY/TIMING (TQ) DATA TYPE DEFINITION.....	4-2
4.4	GENERAL TRIGGER EVENTS & MESSAGE DEFINITIONS.....	4-2
4.5	GENERAL SEGMENTS	4-2
4.6	GENERAL MESSAGE EXAMPLES.....	4-2
4.7	DIET TRIGGER EVENTS & MESSAGE DEFINITIONS.....	4-2
4.8	DIET SEGMENTS	4-2
4.9	DIET MESSAGE EXAMPLES.....	4-2
4.10	SUPPLY TRIGGER EVENTS & MESSAGES	4-2
4.11	SUPPLY SEGMENTS	4-2
4.12	SUPPLY MESSAGE EXAMPLES	4-2
4.13	PHARMACY/TREATMENT TRIGGER EVENTS & MESSAGES	4-2
4.14	PHARMACY/TREATMENT SEGMENTS.....	4-2
4.15	PHARMACY/TREATMENT MESSAGE EXAMPLES	4-2
4.16	PHARMACY/TREATMENT TRANSACTION FLOW DIAGRAM	4-2
4.17	VACCINE TRIGGER EVENTS & MESSAGE DEFINITIONS.....	4-2
4.18	VACCINE SEGMENTS	4-2
4.19	VACCINATION MESSAGE EXAMPLES.....	4-2
4.20	TRANSFUSION SERVICE (BLOOD BANK) TRIGGER EVENTS & MESSAGES.....	4-2
4.21	TRANSFUSION SERVICE (BLOOD BANK) SEGMENTS	4-2
4.22	TRANSFUSION SERVICE (BLOOD BANK) TRANSACTION FLOW DIAGRAM.....	4-2
4.23	TABLES LISTINGS	4-2
4.24	OUTSTANDING ISSUES.....	4-2

CHAPTER 5 QUERY

5.1	CHAPTER 5 CONTENTS.....	5-1
5.2	INTRODUCTION	5-3
5.3	QUERY/RESPONSE CONFORMANCE STATEMENT	5-14
5.4	QUERY/RESPONSE MESSAGE PAIRS	5-25
5.5	QUERY/RESPONSE MESSAGE SEGMENTS	5-25
5.6	AUXILIARY QUERY PROTOCOLS.....	5-25
5.7	PUBLISH AND SUBSCRIBE	5-25
5.8	QUERY IMPLEMENTATION CONSIDERATIONS	5-25
5.9	QUERY/RESPONSE MESSAGE EXAMPLES	5-25
5.10	SUPERCEDED QUERY/RESPONSE TRIGGER EVENTS AND MESSAGE PAIRS	5-25
5.11	OUTSTANDING ISSUES.....	5-25

CHAPTER 6 FINANCIAL MANAGEMENT

6.1	CHAPTER 6 CONTENTS.....	6-1
6.2	PURPOSE	6-2
6.3	PATIENT ACCOUNTING MESSAGE SET.....	6-2
6.4	TRIGGER EVENTS AND MESSAGE DEFINITIONS	6-2
6.5	MESSAGE SEGMENTS	6-15
6.6	EXAMPLE TRANSACTIONS.....	6-114
6.7	IMPLEMENTATION CONSIDERATIONS.....	6-115

CHAPTER 7 OBSERVATION REPORTING

7.	OBSERVATION REPORTING	7-1
7.1	CHAPTER 7 CONTENTS.....	7-1
7.2	PURPOSE	7-3
7.3	GENERAL TRIGGER EVENTS & MESSAGE DEFINITIONS.....	7-12
7.4	GENERAL SEGMENTS	7-27
7.5	EXAMPLES OF USE.....	7-66
7.6	CLINICAL TRIALS	7-76
7.7	CLINICAL TRIALS - TRIGGER EVENTS AND MESSAGE DEFINITIONS	7-79
7.8	CLINICAL TRIALS – SEGMENT DEFINITIONS	7-82
7.9	CLINICAL TRIALS – EXAMPLES OF USE	7-89
7.10	PRODUCT EXPERIENCE	7-91
7.11	PRODUCT EXPERIENCE - TRIGGER EVENTS AND MESSAGE DEFINITIONS	7-95
7.12	PRODUCT EXPERIENCE – SEGMENT DEFINITIONS	7-100

7.13 PRODUCT EXPERIENCE – EXAMPLES OF USE	7-122
7.14 WAVEFORM	7-123
7.15 WAVEFORM – TRIGGER EVENTS & MESSAGE DEFINITIONS	7-126
7.16 WAVEFORM – SEGMENT DEFINITIONS	7-126
7.17 WAVEFORM – EXAMPLES OF USE	7-129
7.18 TABLES LISTINGS	7-132
7.19 OUTSTANDING ISSUES.....	7-151

CHAPTER 8 MASTER FILES

8.1 CHAPTER 8 CONTENTS.....	8-1
8.2 PURPOSE	8-3
8.3 TRIGGER EVENTS	8-4
8.4 MESSAGES	8-5
8.5 GENERAL MASTER FILE SEGMENTS	8-11
8.6 GENERIC MASTER FILE EXAMPLES	8-17
8.7 STAFF AND PRACTITIONER MASTER FILES	8-19
8.8 SERVICE/TEST/OBSERVATIONS MASTER FILES.....	8-21
8.9 LOCATION MASTER FILES.....	8-59
8.10 CHARGE DESCRIPTION MASTER FILES	8-74
8.11 CLINICAL TRIALS MASTER FILES.....	8-82
8.12 INVENTORY ITEM MASTER FILES.....	8-89
8.13 EXAMPLES.....	8-93
8.14 OUTSTANDING ISSUES.....	8-95

CHAPTER 9 MEDICAL RECORDS/INFORMATION MANAGEMENT (DOCUMENT MANAGEMENT)

9.1 CHAPTER 9 CONTENTS.....	9-1
9.2 PURPOSES	9-2
9.3 DOCUMENT MANAGEMENT SECTION	9-4
9.4 ASSUMPTIONS	9-4
9.5 TRIGGER EVENTS AND MESSAGE DEFINITIONS	9-4
9.6 MESSAGE SEGMENTS	9-15
9.7 EXAMPLE MESSAGE.....	9-34
9.8 QUERY.....	9-34
9.9 CONSENT INFORMATION	9-35
9.10 OUTSTANDING ISSUES.....	9-49

CHAPTER 10 SCHEDULING

10.1	CHAPTER 10 CONTENTS.....	10-1
10.2	PURPOSE	10-2
10.3	PLACER APPLICATION REQUESTS AND TRIGGER EVENTS	10-12
10.4	FILLER APPLICATION MESSAGES AND TRIGGER EVENTS UNSOLICITED.....	10-18
10.5	QUERY TRANSACTIONS AND TRIGGER EVENTS.....	10-23
10.6	MESSAGE SEGMENTS	10-27
10.7	EXAMPLE TRANSACTIONS.....	10-64
10.8	IMPLEMENTATION CONSIDERATIONS.....	10-67
10.9	ISSUES	10-67
10.10	OUTSTANDING ISSUES.....	10-68

CHAPTER 11 PATIENT REFERRAL

11.1	CHAPTER 11 CONTENTS.....	11-1
11.2	PURPOSE	11-2
11.3	PATIENT INFORMATION REQUEST MESSAGES AND TRIGGER EVENTS.....	11-8
11.4	PATIENT TREATMENT AUTHORIZATION REQUESTS.....	11-15
11.5	PATIENT REFERRAL MESSAGES AND TRIGGER EVENTS.....	11-19
11.6	SEGMENTS.....	11-23
11.7	EXAMPLES.....	11-35
11.8	OUTSTANDING ISSUES.....	11-42

CHAPTER 12 PATIENT CARE

12.1	CHAPTER 12 CONTENTS.....	12-1
12.2	INTRODUCTION AND OVERVIEW	12-2
12.3	MESSAGE DEFINITIONS	12-7
12.4	MESSAGE SEGMENTS	12-25
12.5	EXAMPLE TRANSACTIONS.....	12-37
12.6	IMPLEMENTATION CONSIDERATIONS.....	12-39
12.7	OUTSTANDING ISSUES.....	12-39

CHAPTER 13 CLINICAL LABORATORY AUTOMATION

13.1	CHAPTER 13 CONTENTS.....	13-1
13.2	BACKGROUND AND INTRODUCTION	13-3
13.3	TRIGGER EVENTS AND MESSAGE DEFINITIONS	13-16
13.4	MESSAGE SEGMENTS	13-24
13.5	NOTES REGARDING USAGE	13-56

13.6	EXAMPLE MESSAGES	13-57
13.7	OUTSTANDING ISSUES.....	13-60

CHAPTER 14 APPLICATION MANAGEMENT

14.1	CHAPTER 14 CONTENTS.....	14-1
14.2	INTRODUCTION	14-2
14.3	TRIGGER EVENTS AND MESSAGE DEFINITIONS	14-2
14.4	MESSAGE SEGMENTS	14-4
14.5	OUTSTANDING ISSUES.....	14-9

CHAPTER 15 PERSONNEL MANAGEMENT

15.1	CHAPTER 15 CONTENTS.....	15-1
15.2	PURPOSE	15-1
15.3	TRIGGER EVENTS AND MESSAGE DESCRIPTIONS.....	15-2
15.4	MESSAGE SEGMENTS	15-8
15.5	EXAMPLE TRANSACTIONS.....	15-40
15.6	OUTSTANDING ISSUES.....	15-40

APPENDIX A DATA DEFINITION TABLES

A.1	APPENDIX A CONTENTS.....	A-1
A.2	INTRODUCTION	A-1
A.3	MESSAGE TYPES.....	A-2
A.4	SEGMENTS.....	A-5
A.5	HL7 AND USER-DEFINED TABLES - ALPHABETIC SORT.....	A-9
A.6	HL7 AND USER-DEFINED TABLES - NUMERIC SORT.....	A-22
A.7	DATA ELEMENT NAMES	A-166

APPENDIX B LOWER LAYER PROTOCOLS

B.1	APPENDIX B.....	B-1
-----	-----------------	-----

APPENDIX C VERSION 2.5 BNF MESSAGE DESCRIPTIONS

C.1	APPENDIX C CONTENTS.....	C-1
C.2	BNF DESCRIPTIONS OF HL7 VERSION 2.5 ABSTRACT MESSAGES.....	C-1

APPENDIX D GLOSSARY

D.1	APPENDIX D.....	D-1
-----	-----------------	-----