

Australian Technical Specification

Electronic transfer of prescriptions

Part 1: Platform independent (logical) information model to support electronic transfer of prescriptions



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Australian Technical Specification

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Part 1: Platform independent (logical) information model to support electronic transfer of prescriptions

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PREFACE

This Australian Technical Specification was prepared by the Standards Australia Technical Committee IT-014, Health Informatics.

The Standards Australia Technical Committee IT-014 recognizes the work of the Standards Australia Working Group IT-014-06-04, Prescription Messaging, in the preparation of this Technical Specification.

The purpose of this document is to define the information model for documents used for technical specifications relating to the electronic transfer of prescriptions (ETP).

This document is the first in a series of six Technical Specifications that collectively define a method for ETP in Australia. The series comprises the following parts:

ATS

4888		Electronic transfer of prescriptions
4888.1	Part 1:	Platform independent (logical) information model to support electronic transfer of prescriptions
4888.2	Part 2:	Platform independent (logical) services model to support electronic transfer of prescriptions
4888.3	Part 3:	Platform implementation specific e-prescription HL7 Clinical Document Architecture implementation guide
4888.4	Part 4:	Platform implementation specific dispense record HL7 Clinical Document Architecture implementation guide
4888.5	Part 5:	Platform implementation specific prescription request HL7 Clinical Document Architecture implementation guide
4888.6	Part 6:	Platform implementation specific web service

These Technical Specifications support the transfer of legal electronic prescriptions, dispense records and prescription requests between prescribers (e.g. medical practitioners, nurse practitioners) and dispensers (e.g. community pharmacists), where the dispensing pharmacy is not within the same organization as the prescriber. The most common scenario is the General Practitioner to Community Pharmacy transaction. Other examples include, but are not limited to, the following:

- (a) Public Hospital outpatient clinic to Community Pharmacy.
- (b) Medical Specialist to Community Pharmacy.
- (c) Hospital discharge prescription to Community Pharmacy.
- (d) General Practice to Public Hospital Pharmacy.

Prescribers and Dispensers need to be registered healthcare practitioners legally authorized to undertake the prescribing and dispensing roles under the relevant state, territory and Commonwealth legislation.

These Technical Specifications are not specifically designed to support intra-organization prescribing and dispensing processes such as inpatient medication orders; however, this does not preclude the use of these Specifications in other settings, should they meet the organization's needs.

These Specifications do not replace AS 4700.3, *Implementation of Health Level Seven, Part 3: Electronic messages for exchange of information on drug prescription*.

The term ‘informative’ has been used in this Technical Specification to define the application of the appendix to which it applies. An ‘informative’ appendix is for information and guidance only.

This publication has been developed with assistance from the Australian Government Department of Health and Ageing. The Australian Government makes no representation or warranty that the information in this publication is correct and accurate.

Standards Australia wishes to thank the Department of Health and Ageing for its continued financial support in helping to develop this Australian Technical Specification.

NOTE: This document is an Australian Technical Specification; it is not an Australian Standard. An Australian Technical Specification is a normative document that has been subject to a limited form of transparency and does not have the support of the full consensus process normally associated with an Australian Standard.

An Australian Technical Specification is often prepared in a field where the subject matter, or a related aspect such as the regulatory environment, is undergoing rapid change and where speed of delivery, rather than full consensus, is of paramount importance. In such cases, it would normally be expected that an Australian Standard would eventually be developed to supersede the Technical Specification.

An Australian Technical Specification is subject to, at least, limited peer review, with the option of going to full Public Comment if this is deemed warranted.

It is the goal in the coming years for these Specifications to progress to Australian Standards; however, the Working Group acknowledges that, for this to occur, a number of these ‘external factors’ will need to mature and that these factors may also augment the content of the Specification prior to its progression to a Standard.

Given the large number of stakeholders involved in ETP (including at least two existing Prescription Exchanges, at least 40 software vendors, and more than 5000 pharmacies and 40 000 prescribers), it is clear that a pathway for transition to this Specification by the key stakeholders will need to be agreed upon.

The support and management of the stakeholders in this transition will be a key element in the adoption of this Specification across the sector; however, the responsibility for transition is outside the scope of work for the Working Group which has prepared these documents.

This transition is also likely to affect any assessment of conformance against these Specifications and it should be noted that any conformance assessment should take into consideration ‘real world’ maturity and an ability to conform fully to this Specification. In this regard a conformance profile may be required to differ from this Specification; however, the producers of that profile should be explicit as to where those differences lie and why they are present.

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CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	10
1.2 INTENDED AUDIENCE	10
1.3 NORMATIVE REFERENCES	11
1.4 TERMS, DEFINITIONS AND ACRONYMS	11
1.5 KEYWORD INTERPRETATIONS	12
1.6 REGULATORY COMPLIANCE	14
1.7 ICON LEGEND.....	14
1.8 KNOWN ISSUES	16
SECTION 2 PRESCRIPTION STRUCTURED DOCUMENT	
2.1 E-PRESCRIPTION.....	18
2.2 DATA HIERARCHY	19
SECTION 3 E-PRESCRIPTION CONTEXT	
3.1 SUBJECT OF CARE	24
3.2 SUBJECT OF CARE ENTITLEMENT TYPE VALUES	25
3.3 PRESCRIBER	26
3.4 PRESCRIBER ORGANIZATION.....	27
3.5 PRESCRIPTION IDENTIFIER	29
SECTION 4 PRESCRIPTION ITEM	
4.1 PRESCRIPTION ITEM.....	30
4.2 DATETIME PRESCRIPTION WRITTEN	32
4.3 DATETIME PRESCRIPTION EXPIRES	33
4.4 PRESCRIPTION ITEM IDENTIFIER.....	34
4.5 THERAPEUTIC GOOD IDENTIFICATION	35
4.6 MEDICINES TERMINOLOGY	36
4.7 FORMULA.....	37
4.8 DIRECTIONS.....	38
4.9 STRUCTURED DOSE	39
4.10 QUANTITY	40
4.11 DOSE UNIT	40
4.12 DOSE UNIT REFERENCE SET	41
4.13 QUANTITY DESCRIPTION	42
4.14 TIMING.....	42
4.15 TIMING DESCRIPTION	43
4.16 STRUCTURED TIMING	44
4.17 INTERVENTION FREQUENCY RANGE.....	45
4.18 INTERVENTION INTERVAL RANGE	46
4.19 INTERVENTION TIME.....	46
4.20 INTERVENTION DAY OF WEEK.....	47
4.21 INTERVENTION DAY OF WEEK VALUES	47
4.22 INTERVENTION DAY OF MONTH.....	48
4.23 INTERVENTION DATE.....	49
4.24 PRN.....	49
4.25 START CRITERION.....	50

4.26 START DATE 50

4.27 STOP CRITERION..... 51

4.28 STOP DATE 51

4.29 DURATION OF TREATMENT 52

4.30 NUMBER OF ADMINISTRATIONS 52

4.31 LONG-TERM..... 53

4.32 ADMINISTRATION DETAILS 53

4.33 ROUTE..... 54

4.34 ROUTE OF ADMINISTRATION REFERENCE SET 55

4.35 ANATOMICAL SITE 56

4.36 BODY STRUCTURE FOUNDATION REFERENCE SET..... 57

4.37 MEDICATION DELIVERY METHOD 57

4.38 DOSE DURATION 58

4.39 QUANTITY TO DISPENSE 59

4.40 QUANTITY..... 60

4.41 DISPENSING UNIT..... 60

4.42 DOSE UNIT REFERENCE SET 61

4.43 QUANTITY DESCRIPTION 62

4.44 BRAND SUBSTITUTE NOT ALLOWED..... 62

4.45 MAXIMUM NUMBER OF REPEATS 63

4.46 MINIMUM INTERVAL BETWEEN REPEATS..... 64

4.47 PBS PRESCRIPTION TYPE..... 65

4.48 PBS PRESCRIPTION TYPE VALUES..... 65

4.49 MEDICAL BENEFIT CATEGORY TYPE 66

4.50 MEDICAL BENEFIT CATEGORY TYPE VALUES 67

4.51 PBS CLOSE THE GAP BENEFIT 68

4.52 PBS/RPBS ITEM CODE 69

4.53 PBS/RPBS ITEM CODE VALUES 70

4.54 PBS/RPBS MANUFACTURER CODE..... 71

4.55 PBS/RPBS MANUFACTURER CODE VALUES 72

4.56 PBS EXTEMPORANEOUS PREPARATION DESCRIPTION 73

4.57 PBS EXTEMPORANEOUS INGREDIENT..... 74

4.58 PBS EXTEMPORANEOUS INGREDIENT NAME 75

4.59 PBS EXTEMPORANEOUS INGREDIENT QUANTITY..... 76

4.60 GROUNDS FOR CONCURRENT SUPPLY..... 76

4.61 GROUNDS FOR CONCURRENT SUPPLY VALUES..... 78

4.62 PBS/RPBS AUTHORITY PRESCRIPTION NUMBER..... 79

4.63 PBS/RPBS AUTHORITY APPROVAL NUMBER..... 80

4.64 STREAMLINED AUTHORITY APPROVAL NUMBER..... 82

4.65 STATE AUTHORITY NUMBER..... 83

4.66 REASON FOR THERAPEUTIC GOOD 84

4.67 ADDITIONAL COMMENTS..... 85

4.68 DISPENSE ITEM IDENTIFIER..... 86

4.69 MEDICATION INSTRUCTION IDENTIFIER..... 86

SECTION 5 OBSERVATIONS SECTION

5.1 OBSERVATIONS 88

5.2 BODY WEIGHT 88

5.3 BODY WEIGHT VALUE 89

5.4 DATETIME OF OBSERVATION..... 90

5.5 BODY HEIGHT 91

5.6 BODY HEIGHT VALUE 92

5.7 DATETIME OF OBSERVATION..... 93

SECTION 6	PRESCRIPTION NOTE DETAIL	
6.1	PRESCRIPTION NOTE DETAIL	94
6.2	NOTE	94
SECTION 7	DISPENSE RECORD STRUCTURED DOCUMENT	
7.1	DISPENSE RECORD.....	96
SECTION 8	DISPENSE RECORD CONTEXT	
8.1	SUBJECT OF CARE	99
8.2	SUBJECT OF CARE ENTITLEMENT TYPE VALUES	100
8.3	DISPENSER.....	101
8.4	DISPENSING ORGANIZATION.....	102
8.5	DISPENSE RECORD IDENTIFIER.....	104
SECTION 9	DISPENSE ITEM	
9.1	DISPENSE ITEM	105
9.2	DISPENSE ITEM IDENTIFIER.....	107
9.3	DATETIME OF DISPENSE EVENT	108
9.4	PRESCRIPTION ITEM IDENTIFIER.....	108
9.5	THERAPEUTIC GOOD IDENTIFICATION	109
9.6	MEDICINES TERMINOLOGY	111
9.7	FORMULA.....	111
9.8	LABEL INSTRUCTION	112
9.9	QUANTITY DISPENSED.....	113
9.10	QUANTITY.....	114
9.11	DISPENSING UNIT	114
9.12	DOSE UNIT REFERENCE SET	115
9.13	QUANTITY DESCRIPTION	116
9.14	BRAND SUBSTITUTION OCCURRED	116
9.15	MAXIMUM NUMBER OF REPEATS	117
9.16	NUMBER OF THIS DISPENSE	118
9.17	PBS CLOSE THE GAP BENEFIT	119
9.18	PBS/RPBS ITEM CODE	120
9.19	PBS/RPBS ITEM CODE VALUES	121
9.20	PBS/RPBS MANUFACTURER CODE.....	122
9.21	PBS/RPBS MANUFACTURER CODE VALUES	123
9.22	PBS EXTEMPORANEOUS PREPARATION DESCRIPTION	124
9.23	PBS EXTEMPORANEOUS INGREDIENT.....	125
9.24	PBS EXTEMPORANEOUS INGREDIENT NAME	126
9.25	PBS EXTEMPORANEOUS INGREDIENT QUANTITY.....	127
9.26	CLAIM CATEGORY TYPE	127
9.27	CLAIM CATEGORY TYPE VALUES	128
9.28	UNDER CO-PAYMENT	129
9.29	EARLY SUPPLY WITH PHARMACEUTICAL BENEFIT.....	130
9.30	ADDITIONAL COMMENTS.....	131
9.31	PATIENT CATEGORY	132
9.32	PATIENT CATEGORY VALUES	132
9.33	RACF ID	133
SECTION 10	PRESCRIPTION REQUEST STRUCTURED DOCUMENT	
10.1	PRESCRIPTION REQUEST	135

SECTION 11 PRESCRIPTION REQUEST CONTEXT

- 11.1 SUBJECT OF CARE 141
- 11.2 SUBJECT OF CARE ENTITLEMENT TYPE VALUES 142
- 11.3 DISPENSER 143
- 11.4 DISPENSING ORGANIZATION 144
- 11.5 PRESCRIBER 146
- 11.6 PRESCRIBER ORGANIZATION 147
- 11.7 PRESCRIPTION REQUEST IDENTIFIER 149
- 11.8 DATETIME PRESCRIPTION REQUEST WRITTEN 149

SECTION 12 PRESCRIBER INSTRUCTION DETAIL

- 12.1 PRESCRIBER INSTRUCTION DETAIL 151
- 12.2 PRESCRIBER INSTRUCTION RECIPIENT 152
- 12.3 DATETIME PRESCRIBER INSTRUCTION RECEIVED 153
- 12.4 PRESCRIBER INSTRUCTION 153
- 12.5 PRESCRIBER INSTRUCTION SOURCE 154
- 12.6 PRESCRIBER INSTRUCTION COMMUNICATION MEDIUM 155
- 12.7 PRESCRIBER INSTRUCTION COMMUNICATION MEDIUM VALUES 156

SECTION 13 PRESCRIPTION REQUEST ITEM

- 13.1 PRESCRIPTION REQUEST ITEM 157
- 13.2 PRESCRIPTION REQUEST ITEM IDENTIFIER 158
- 13.3 DISPENSE ITEM IDENTIFIER 159
- 13.4 THERAPEUTIC GOOD IDENTIFICATION 160
- 13.5 MEDICINES TERMINOLOGY 161
- 13.6 FORMULA 162
- 13.7 DIRECTIONS 163
- 13.8 STRUCTURED DOSE 164
- 13.9 QUANTITY 165
- 13.10 DOSE UNIT 166
- 13.11 DOSE UNIT REFERENCE SET 167
- 13.12 QUANTITY DESCRIPTION 167
- 13.13 TIMING 168
- 13.14 TIMING DESCRIPTION 169
- 13.15 STRUCTURED TIMING 170
- 13.16 INTERVENTION FREQUENCY RANGE 171
- 13.17 INTERVENTION INTERVAL RANGE 172
- 13.18 INTERVENTION TIME 172
- 13.19 INTERVENTION DAY OF WEEK 173
- 13.20 INTERVENTION DAY OF WEEK VALUES 173
- 13.21 INTERVENTION DAY OF MONTH 174
- 13.22 INTERVENTION DATE 175
- 13.23 PRN 175
- 13.24 START CRITERION 176
- 13.25 START DATE 177
- 13.26 STOP CRITERION 177
- 13.27 STOP DATE 178
- 13.28 DURATION OF TREATMENT 178
- 13.29 NUMBER OF ADMINISTRATIONS 179
- 13.30 LONG-TERM 179
- 13.31 ADMINISTRATION DETAILS 180
- 13.32 ROUTE 181
- 13.33 ROUTE OF ADMINISTRATION REFERENCE SET 182
- 13.34 ANATOMICAL SITE 182
- 13.35 BODY STRUCTURE FOUNDATION REFERENCE SET 183

13.36 MEDICATION DELIVERY METHOD	184
13.37 DOSE DURATION	184
13.38 QUANTITY TO DISPENSE	185
13.39 QUANTITY.....	186
13.40 DISPENSING UNIT.....	187
13.41 DOSE UNIT REFERENCE SET	187
13.42 QUANTITY DESCRIPTION	188
13.43 BRAND SUBSTITUTE NOT ALLOWED.....	188
13.44 PBS PRESCRIPTION TYPE.....	189
13.45 PBS PRESCRIPTION TYPE VALUES.....	190
13.46 MEDICAL BENEFIT CATEGORY TYPE	191
13.47 MEDICAL BENEFIT CATEGORY TYPE VALUES	191
13.48 PBS CLOSE THE GAP BENEFIT	192
13.49 PBS/RPBS ITEM CODE	194
13.50 PBS/RPBS ITEM CODE VALUES	195
13.51 PBS/RPBS MANUFACTURER CODE.....	195
13.52 PBS/RPBS MANUFACTURER CODE VALUES	196
13.53 PBS EXTEMPORANEOUS PREPARATION DESCRIPTION	197
13.54 PBS EXTEMPORANEOUS INGREDIENT.....	198
13.55 PBS EXTEMPORANEOUS INGREDIENT NAME	199
13.56 PBS EXTEMPORANEOUS INGREDIENT QUANTITY.....	200
13.57 PBS/RPBS AUTHORITY PRESCRIPTION NUMBER.....	200
13.58 PBS/RPBS AUTHORITY APPROVAL NUMBER.....	202
13.59 STREAMLINED AUTHORITY APPROVAL NUMBER.....	204
13.60 STATE AUTHORITY NUMBER.....	205
13.61 ADDITIONAL COMMENTS.....	206
SECTION 14 REQUESTER NOTE	
14.1 REQUESTER NOTE.....	208
14.2 NOTE	208
APPENDICES	
A PARTICIPATIONS	210
B COMPARISON BETWEEN PRINTED AND ELECTRONIC PRESCRIPTIONS..	230
BIBLIOGRAPHY.....	234

STANDARDS AUSTRALIA

**Australian Technical Specification
Electronic transfer of prescriptions****Part 1: Platform independent (logical) information model to support
electronic transfer of prescriptions**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Technical Specification is a platform independent (logical) information model (PIM) for an electronic prescription (e-prescription). It specifies the information structure of e-prescriptions in order to support the electronic transfer of prescriptions (ETP).

This Technical Specification defines the PIMs for e-prescription and the associated dispense record and prescription request.

This Technical Specification specifies the essential clinical data groups and elements to be captured in an e-prescription exchange and the constraints that should be applied. This document provides the requirements for prescriptions that are generated by registered medical practitioners and dispensed by pharmacists.

The types of prescriptions may include, but are not limited to, the following:

- (a) Pharmaceutical Benefits Scheme (PBS)/Repatriation Pharmaceutical Benefits Scheme (RPBS) prescriptions.
- (b) PBS/RPBS authority prescriptions.
- (c) Non-PBS prescriptions (private prescriptions).
- (d) Prescriptions under a co-payment arrangement.

This Technical Specification is a key input into Parts 3, 4 and 5 in the ATS 4888 series, which describe how to implement the three logical models in these parts in *HL7 Clinical Document Architecture, Release 2*.

NOTE: Appendix B explains the comparison between printed and electronic prescriptions.

1.2 INTENDED AUDIENCE

This Technical Specification is aimed at software development teams, e-health system architects and designers, clinicians and informatics researchers, all of whom are responsible for the delivery of clinical applications, infrastructure components and messaging interfaces.

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