

Australian Standard[®]

**Implementation of Health Level Seven
(HL7) Version 2.4**

**Part 2: Pathology and diagnostic
imaging (diagnostics)**



This Australian Standard® was prepared by Committee IT-014, Health Informatics. It was approved on behalf of the Council of Standards Australia on 1 November 2012.

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Part 2: Pathology and diagnostic imaging (diagnostics)

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PREFACE

This Standard was prepared by the IT-014-06-05 Diagnostics Messaging Working Group under direction from Standards Australia Committee IT-014, Health Informatics, in response to requests from the health informatics community to update AS 4700.2—2007.

The objective of this Standard is to specify message formats and code sets for communicating pathology and diagnostic imaging orders and results within and between Australian healthcare settings.

This Standard updates AS 4700.2—2007, *Implementation of HL7 Version 2.4*, with changes related to the national eHealth agenda, including the use of Healthcare Identifiers, terminology and the introduction of conformance points.

The contents of AS 4700.7—2005, *Implementation of HL7 Version 2.3.1, Part 7: Diagnostic imaging orders and results*, and AS 4700.2—2004, *Implementation of Health Level Seven (HL7) Version 2.3.1, Part 2: Pathology orders and results*, remain current in respect of HL7 Version 2.3.1 implementations. AS 4700.2—1998, *Implementation of Health Level Seven (HL7) Version 2.3, Part 2: Pathology orders and results*, remains current in respect of HL7 Version 2.3 implementations.

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

NOTE: Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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FOREWORD

Australia already has an existing base of healthcare institutions that use the HL7 protocol to exchange key sets of data between different computer systems. However, because of HL7's inbuilt flexibility, it is open to differences in terms of interpretation of structure and format. Implementation of the HL7 Standard in the Australian health environment requires a common and consistent approach.

This Standard provides consistent use of data definitions as well as commentary and references to the International Organization for Standardization (ISO), the National Health Data Dictionary (NHDD), the National Association of Testing Authorities, Australia (NATA), The Royal College of Pathologists of Australasia (RCPA), The Royal Australian and New Zealand College of Radiologists (RANZCR) and the Integrating the Healthcare Enterprise (IHE) initiative.

STANDARDS AUSTRALIA

Australian Standard

Implementation of Health Level Seven (HL7) Version 2.4

Part 2: Pathology and diagnostic imaging (diagnostics)

1 SCOPE

This Standard provides requirements for and guidance on the implementation of orders and observations for pathology and diagnostic imaging (hereafter referred to as ‘diagnostics’), using the *HL7 Version 2.4* protocol for communication between health service providers for messages relating to pathology and diagnostic imaging, both within and between Australian healthcare settings.

HL7 Version 2.4 is a healthcare application protocol accredited as a Standard by the American National Standards Institute (ANSI).

This Standard includes the data segments and elements that are mandatory (required), optional or conditional (required, based on a condition), and relevant usage notes in the Australian health environment, as well as use cases. The content covers the description and usage of placer and filler order management—that is, where a new order or message, a change or a cancellation is made by an order placer or filler.

This Standard is for use by Australian health authorities, providers of health services, pathology and diagnostic imaging, health institutions, health information technology vendors, health information technology consultants and the health informatics community.

Only human subjects of care are considered in this Standard.

2 REFERENCED AND RELATED DOCUMENTS

2.1 Referenced documents

2.1.1 General

The following documents are referred to in this Standard:

AS	
4700.1—2005	Implementation of Health Level Seven (HL7) Version 2.4, Part 1: Patient administration
4846—2006	Health Care Provider Identification
5017—2006	Health Care Client Identification
SA HB 234—2012	Healthcare identifier HL7 implementation guide
ISO	ISO/TS 22220:2011 Health Informatics—Identification of Subject of Care
HL7 V2.4	Health Level Seven Standard Version 2.4: Health Level Seven Inc., Ann Arbor 2000 http://www.hl7.org
LOINC®	Logical Observation Identifier Names and Codes, Users Guide, Indianapolis: Regenstrief Institute. http://www.regenstrief.org/medinformatics/loinc/