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**Pathology Result Reporting Package  
(v1.0 Draft)**

**Readers' Guide v3.0**

1 September 08

Draft for comment - Commercial-in-confidence

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# Document Information

## Change History

Version	Date	Author	Comments
3.0	1/09/2008	NEHTA	Package v1.0 Draft update
2.2	28/08/2008	NEHTA	Package v1.0 Draft update
2.1	25/08/2008	NEHTA	Package v1.0 Draft update
2.0	21/08/2008	NEHTA	Package v1.0 Draft update
1.2	27/05/2008	Siobhan Jenks	Changes made following Privacy Review.
1.1	15/05/2008	Siobhan Jenks	Updated presentation to be consistent across all documents within the package.
1.0	12/05/2008	Siobhan Jenks	Draft released for Comment
0.2 – 0.5	30/04/2008	Siobhan Jenks	Updated to include further information.
0.1	13/03/2008	Henk Harms	First draft



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# Preface

## Document Purpose

This Readers' Guide gives a brief overview of all the documents included in the Pathology Result Reporting Package (v1.0 Draft) and explains each document's:

- Purpose
- Intended audience
- Content
- Full document name and location

Additionally, it also provides a document map, which places each document in context with others delivered within the package.

## Intended Audience

The Readers' Guide is the recommended starting point for anyone involved in the decision making, design, development, delivery or implementation of NEHTA's Pathology Result Reporting solution, including:

- Pathology Laboratory Managers and Decision Makers
- Pathology Software Vendors
- General Practitioners
- GP Desktop Software Vendors
- GP Technical Support
- Messaging Providers
- Medical Terminology Experts

# 1 Introduction

This document explains the suite of documents included in the Pathology Result Reporting Package which NEHTA has developed for the Australian health informatics community.

## 1.1 Package Overview

### 1.1.1 Version 1.0

Included within the Pathology Result Reporting Package (v1.0 Draft) are:

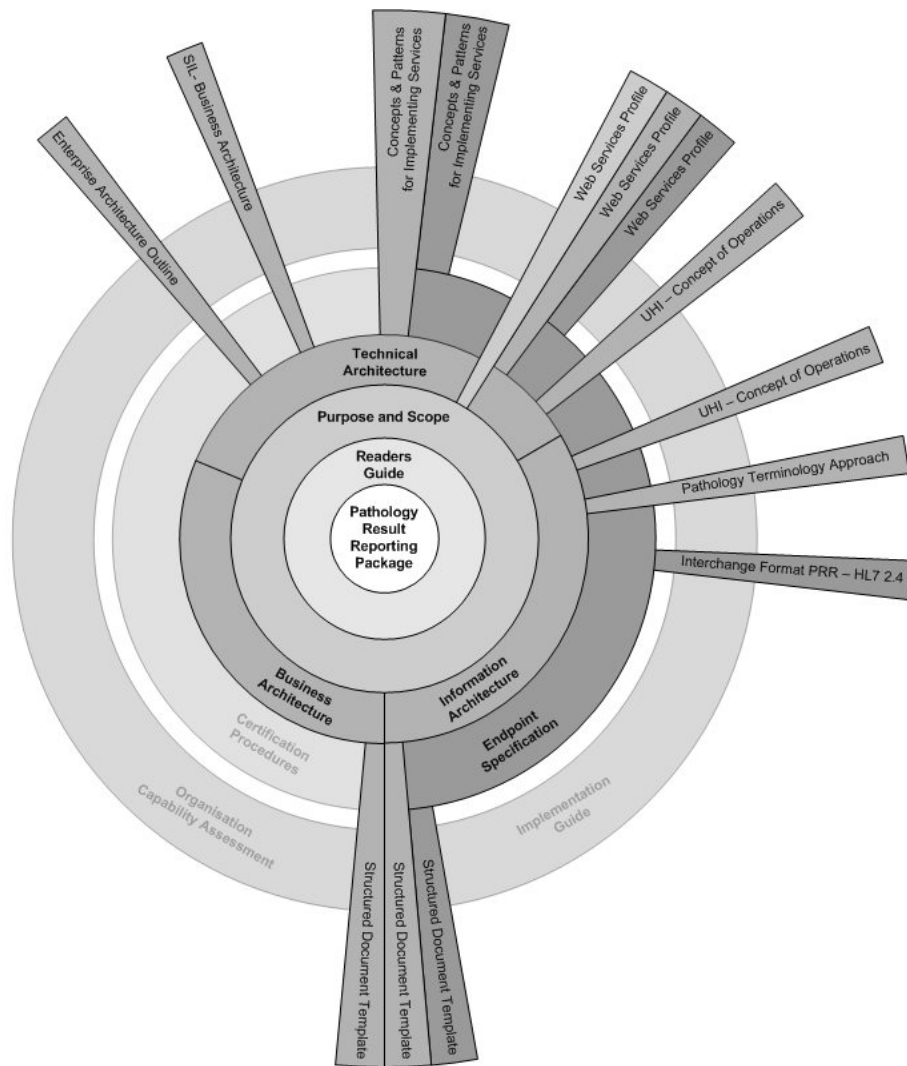
<i>Document</i>	<i>Brief Description</i>
<b>Readers' Guide</b>	- Introduces the documents delivered in the package.
<b>Purpose and Scope</b>	- Defines a high-level vision for a national approach to Pathology Result Reporting. It provides the background for the package.
<b>Business Architecture</b>	- Describes the business requirements and the way in which the solution will deliver these requirements.
<b>Information Architecture</b>	- Describes the information components of the solution and their interrelationships.
<b>Technical Architecture</b>	- Describes the technical infrastructure of the solution.
<b>Endpoint Specification</b>	- Defines the technical services to be used for receiving the Pathology Result Report.

An additional three upcoming documents will complete the package:

- Certification Procedures - Describes the tools and processes provided by NEHTA for certification
- Implementation and Supporting Material - Describes how the NEHTA package can be implemented to satisfy the certification criteria
- Organisation Capability Assessment - States the requirements that need to be applied to organisations implementing or adopting the package material.

These additional documents will form part of the full release of the Pathology Result Reporting Package v1.0

## 1.2 Package Document Map



**Figure 1 Package Document Map**

The Package Document Map is designed to show the hierarchy of core documents within the package, and their relationships to ancillary documents. Core package documents are represented as arcs, while ancillary documents (or references to such) appear as radiating spokes. Note that, due to the 'many-to-many' relationships within the package, some ancillary documents appear more than once, and have typically been grouped for clarity.

It is recommended that readers commence with documents at the centre of the map (i.e. the 'Readers' Guide', and 'Purpose and Scope'), working outwards to the detailed, technical documents as needed. Business sponsors may wish to focus upon core documentation, while technical implementers will also likely include ancillary documents. All documents are listed in the [References](#) section at the end of this Readers' Guide.

## 2 Purpose and Scope

### 2.1 Purpose

The goal of the Purpose and Scope document is to define a high-level vision for a national approach to Pathology Result Reporting. It provides a background to the business concerns for which the package has been developed.

This document is used to validate that the rest of the documents within the package address all the issues and requirements within scope.

### 2.2 Content

The Purpose and Scope document provides:

- The purpose of the package from a healthcare perspective
- The background to the package, including the current pathology landscape
- The business drivers and major issues within the pathology landscape
- The business objectives and outcomes
- The communities in which the package will be used, and
- The roles within those communities that will use and benefit from it.

It outlines:

- NEHTA's strategy, including:
  - What will be delivered
  - How it will be delivered
  - How the solution will work
  - Policy Issues

### 2.3 Intended Audience

The Purpose and Scope document should be read by anyone who requires an overview of the Pathology Result Reporting package:

- Pathology Laboratory Managers and Decision Makers:
  - To gain an overview of the business requirements and deliverables in the package
- Pathology Software Vendors:
  - To understand the scope and purpose of the of functional components delivered in the package
- General Practitioners:
  - To gain an overview of the business requirements and deliverables in the package
- GP Desktop Software Vendors:
  - To understand the scope and purpose of the of functional components delivered in the package
- GP Technical Support:
  - To understand the scope and purpose of the of technical and informational components delivered in the package

- Messaging Providers:
  - To understand the information components delivered in the package
- Medical Terminology Experts:
  - To understand the NEHTA-endorsed standards for clinical terminology and messaging

## 2.4 Name and Location

- The full name of the document is:
  - *Pathology Result Reporting Package v1.0 - Purpose and Scope v3.0*
- When it is included in references, it is abbreviated as:
  - [PATH-PRR-PS]

## 3 Business Architecture

### 3.1 Purpose

The purpose of the Business Architecture document is to outline the business requirements for the Pathology Result reporting community and to define, from a business perspective, how NEHTA is going to meet those requirements.

It is the authoritative statement of the *existing* (AS IS) state and the *required* (TO BE) state of the Pathology Result reporting domain.

### 3.2 Content

The Business Architecture describes the required outcome in terms understood by the business and assists in the solution design by using a mixture of business processes and ICT system. It focuses on requirements and functions.

It defines:

- The existing business community - roles, policy and context
- The key business process – the exchange of a Pathology Result report
- The various sub-processes within the exchange of a pathology report – the AS IS processes
- The proposed functional requirements – the specific processes, features, functions and attributes of the package deliverables - the TO BE processes
- The non functional requirements - such as security, licensing and distribution
- The impact of standards and constraints

### 3.3 Intended Audience

It is intended to be read by the following people to gain an overview of the business requirements and deliverables in the package:

- Pathology Laboratory Managers and Decision Makers
- Pathology Software Vendors
- General Practitioners
- GP Desktop Software Vendors and GP Technical Support
- Messaging Providers
- Medical Terminology Experts

### 3.4 Name and Location

- The full name of the document is:
  - *Pathology Result Reporting Package v1.0 - Business Architecture v2.0*
- When it is included in references, it is abbreviated as:
  - [PATH-PRR-BA]
- The latest version will be published on NEHTA's web site in the Pathology area at:
  - <http://www.nehta.gov.au/> (Home > Publications)

# 4 Technical Architecture

## 4.1 Purpose

The purpose of the Technical Architecture document is to outline the technical infrastructure of the Pathology Result reporting solution. It focuses on the Services Interfaces.

## 4.2 Content

The Technical Architecture document describes how to implement the models described in the associated Business Architecture document. It defines the technical roles that each member of the community will perform and how they interact with other members.

Using a combination of the functional and non functional requirements defined in the Business Architecture, the document defines:

- The current technical architecture
- NEHTA's architectural approach, including
  - technical issues, principles, standards and constraints
- The proposed technical architecture, including
  - constituent services and architecture components
  - their relationships, including structural and behavioural relationships
  - processes supported by the package and
  - policy constraints, in particular privacy, clinical safety, data quality expectations and other policies such as service management.

## 4.3 Intended Audience

The Technical Architecture document is intended for the following audiences to gain understanding of how the architecture of the solution fits together within NEHTA's model of secure messaging:

- Pathology Laboratory Managers and Decision Makers
- Pathology Software Vendors
- General Practitioners
- GP Desktop Software Vendors
- GP Technical Support
- Messaging Providers
- Medical Terminology Experts

The document is reasonably technical in nature and assumes its audience will be familiar with the language of health data specifications and have some familiarity with health-related information standards.

## 4.4 Name and Location

- The full name of the document is:
  - *Pathology Result Reporting Package v1.0 - Technical Architecture v2.0*
- When it is included in references, it is abbreviated as:

– [PATH-PRR-TA]

# 5 Information Architecture

## 5.1 Purpose

The Information Architecture focuses on the informational perspective of the package, and includes descriptions of each information component involved and the relationships between them.

It describes the structural design of the shared information environments between a Pathology Report Provider and a Pathology Report Recipient.

## 5.2 Content

This Information Architecture includes descriptions of the information components and their interrelationships independent of platform, technologies or message formats.

It outlines the *information components*, and the *data capture requirements* of:

- Clinical Information
  - the pathology report
  - acknowledgement and notifications
- Terminology
  - descriptions and reference sets
- Unique Healthcare Identifier
  - Healthcare Provider Individual Identification, Healthcare Provider Organisation Identification and Individual Healthcare Identification
- Service Instance Locator (SIL)
  - business and technical service instance records
- National Authentication Service for Health (NASH)
  - credentials

## 5.3 Intended Audience

The Information Architecture document is intended for the following audiences to gain an understanding of how the information components within the solution interrelate and support NEHTA's model of secure messaging:

- Pathology Laboratory Managers and Decision Makers
- Pathology Software Vendors
- General Practitioners
- GP Desktop Software Vendors
- GP Technical Support
- Messaging Providers
- Medical Terminology Experts

The document is reasonably technical in nature and assumes its audience will be familiar with the language of health data specifications and have some familiarity with health-related information.

## 5.4 Name and Location

- The full name of the document is:
  - *Pathology Result Reporting Package v1.0 - Information Architecture v2.0*
- When it is included in references, it is abbreviated as:
  - [PATH-PRR-IA]

# 6 Endpoint Specification

## 6.1 Purpose

The purpose of the Endpoint Specification document is to provide the technical specifications for the implementation of the Web Service Endpoint of the Pathology Result Reporting Package. It describes how the server will receive and acknowledge a Pathology Result report.

The Endpoint Specification is also the basis for conformance testing of the implementation, which is outlined in the Certification Procedures document [PATH-PRR-CP] (for future release).

## 6.2 Content

The Endpoint Specification contains a technical description of the three key structural components of the Web Service Endpoint:

- The Pathology Report
- The Secure Messaging
- The Data Storage Notifications

For each of these components, the specification defines the required:

- Data Types,
- Data Elements,
- Operations and
- Interfaces.

## 6.3 Intended Audience

The Endpoint Specification document is intended for the following audiences to:

- gain an understanding of how the Web Service End Point fits in to NEHTA's model of secure messaging
- expose functionality of systems fulfilling the roles defined in Business Architecture [PATH-PRR-BA]
- understand the method of implementing services to comply with the Web Service Endpoint specifications defined in the document

The document is technical in nature and assumes its audience will be familiar with the language of health data specifications and have some familiarity with health-related information.

- Pathology Laboratory Managers and Decision Makers
- Pathology Software Vendors
- General Practitioners
- GP Desktop Software Vendors
- GP Technical Support
- Messaging Providers
- Medical Terminology Experts

## 6.4 Name and Location

- The full name of the document is:
  - *Pathology Result Reporting Package v1.0 – Endpoint Specification v2.0*
- When it is included in references, it is abbreviated as:
  - [PATH-PRR-EPS]

# Definitions

This section explains the specialised terminology used in this document.

## Shortened Terms

This table lists abbreviations and acronyms in alphabetical order.

Term	Description
CI	Clinical Information
CT	Clinical Terminology
IeHR	Individual Electronic Health Record
ICT	Information and Communication Technology
NASH	National Authentication Service for Health
SIL	Service Instance Locator
SM	Secure Messaging
SNOMED CT	Systemised Nomenclature of Medicine, Clinical Terminology
UHI	Unique Healthcare identifiers

# References

This section lists NEHTA specifications and other documents that provide information for or about the Pathology Result Reporting Package.

At the time of publication, the document versions indicated were valid. However, as all documents listed below are subject to revision, readers are encouraged to use the most recent versions of these documents.

## Package Documents

The following table lists the documents that are delivered in the Pathology Result Reporting Package Version 1.0.

Pathology Result Reporting Package Documents			
[REF]	Document Name	Publisher	Link
PATH-PRR-BA	Pathology Result Reporting Package v1.0 – Business Architecture v3.0	NEHTA 2008	<a href="http://www.nehta.gov.au/">http://www.nehta.gov.au/</a> (Home > Publications)
PATH-PRR-EPS	Pathology Result Reporting Package v1.0 – Endpoint Specification v2.0	NEHTA 2008	<a href="http://www.nehta.gov.au/">http://www.nehta.gov.au/</a> (Home > Publications)
PATH-PRR-IA	Pathology Result Reporting Package v1.0 – Information Architecture v2.0	NEHTA 2008	<a href="http://www.nehta.gov.au/">http://www.nehta.gov.au/</a> (Home > Publications)
PATH-PRR-PS	Pathology Result Reporting Package v1.0 – Purpose and Scope v3.0	NEHTA 2008	<a href="http://www.nehta.gov.au/">http://www.nehta.gov.au/</a> (Home > Publications)
PATH-PRR-TA	Pathology Result Reporting Package v1.0 – Technical Architecture v2.0	NEHTA 2008	<a href="http://www.nehta.gov.au/">http://www.nehta.gov.au/</a> (Home > Publications)

**Table 1: Package Documents**

## Supporting Material

The following tables list the supporting material for the Pathology Result Reporting Package (1.0 Draft). The tables list the references for:

- Secure Messaging (SM) – page 20
- Service Instance Locator (SIL) – page 20
- Unique Healthcare Identifiers (UHI) – page 20
- Clinical Terminologies (CT) – page 20
- Structured Reporting (SR) – page 20
- National Authentication Service for Health (NASH) – page 20.

SM Supporting Documents			
[REF]	Document Name	Publisher	Link
[WSP2008]	Web Services Profile	NEHTA 2008	Reference in preparation for future release.
[TAIS2008]	Concepts and Patterns for Implementing Services	NEHTA 2008	<a href="http://www.nehta.gov.au/">http://www.nehta.gov.au/</a> (Home > Publications)

SIL Supporting Documents			
[REF]	Document Name	Publisher	Link
[SIL2008]	Service Instance Locator – Business and Information Architecture	NEHTA 2008	Reference in preparation for future release.

UHI Supporting Documents			
[REF]	Document Name	Publisher	Link
[UHI-CO]	Unique Healthcare Identification – Concept of Operations	NEHTA 2007	<a href="http://www.nehta.gov.au/">http://www.nehta.gov.au/</a> (Home > Publications)

CT Supporting Documents			
[REF]	Document Name	Publisher	Link
[NEHTA_0198_2008]	Pathology Terminology Approach Document	NEHTA 2008	Reference in preparation for future release.

SR Supporting Documents			
[REF]	Document Name	Publisher	Link
[PATH-PRR-SDT]	Structured Document Template – Pathology Result Report	NEHTA 2008	<a href="http://www.nehta.gov.au/">http://www.nehta.gov.au/</a> (Home > Publications)
[PATH-IF-PRR-HL72.4]	Interchange Format - Pathology Result Report and AS4700.2 (HL7 v2.4)	NEHTA 2008	<a href="http://www.nehta.gov.au/">http://www.nehta.gov.au/</a> (Home > Publications)

NASH Supporting Documents			
[REF]	Document Name	Publisher	Link
[IDMG2007]	Identity Management Glossary of Terms	NEHTA 2007	Reference in preparation for future release.

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