



**PCEHR View Service  
Technical Service Specification v1.7**

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# Document information

## Key information

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## Product version history

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| <b>Product version</b> | <b>Date</b>      | <b>Release comments</b>   |
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| 1.0                    | 20 Dec 2011      | Draft for limited release   |
| 1.1                    | 18 Jan 2012      | Update to reflect Tiger Team feedback   |
| 1.2                    | 18 April 2012    | Added conformance points 31 to 40.<br>Added Transmission Timestamp and Signature. Table 12 is now Timestamp Header. Table 13 is now Transmission Signature in SOAP Header<br>Changed all XSD and WSDL files to latest version as of 11 April 2012.<br>Added reference for ATS 5821<br>Added reference W3C-XML-1.1<br>PCEHR Header changed from section 4.1.1.3 to 4.1.1.5<br><b>Updates related to document exchange:</b><br>Section 3.2.5, Table 5 replaced with new Document Metadata to XDS.b Document Entry mapping<br>Table 9 replaced with new Document Metadata to XDS.b Document Entry mapping<br>VIEW-T 8 Changed documentid from document unique identifier to entryUUID. |
| 1.3                    | 30 May 2012      | Added getRepresentativeListView operation<br>Added conformance points 41 to 43  |
| 1.4                    | 6 Sept 2012      | Added getIndividualDetailsView operation.<br>Updated schemas and WSDLs  |
| 1.5                    | 5 April 2013     | See details in PCEHR B2B Gateway Service release note v1.4  |
| 1.6                    | 13 November 2014 | Update for PCEHR Release 5 to include Pathology, Diagnostic Imaging, Advance Care and Health Record Overview capabilities.<br>Update to Health Record Overview section in both the getView and the Appendix section of the document.  |
| 1.6.1                  | 31 December 2014 | Minor editorial changes.  |
| 1.7                    | 22 July 2015     | Updated to reflect new version of Health Record Overview.   |

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# Table of contents

|                   |  |           |
|-------------------|--|-----------|
| <b>1</b>          | <b>Introduction .....</b>                      | <b>5</b>  |
| 1.1               | Purpose .....                                  | 5         |
| 1.2               | Intended audience .....                        | 5         |
| 1.3               | Context .....                                  | 5         |
| 1.4               | Scope of document .....                        | 6         |
| 1.4.1             | In scope .....                                 | 6         |
| 1.4.2             | Out of scope.....                              | 7         |
| 1.5               | Conformance points .....                       | 7         |
| 1.6               | Document map.....                              | 7         |
| <b>2</b>          | <b>Standards and technology platform .....</b> | <b>9</b>  |
| <b>3</b>          | <b>Computational viewpoint.....</b>            | <b>10</b> |
| 3.1               | Security.....                                  | 10        |
| 3.2               | Service interface realisation .....            | 10        |
| 3.2.1             | getView .....                                  | 10        |
| 3.2.2             | getChangeHistoryView .....                     | 13        |
| 3.2.3             | getAuditView .....                             | 16        |
| 3.2.4             | registryStoredQuery .....                      | 20        |
| 3.2.5             | getRepresentativeList .....                    | 21        |
| 3.2.6             | getIndividualDetailsView .....                 | 25        |
| <b>4</b>          | <b>Information viewpoint.....</b>              | <b>28</b> |
| 4.1               | Information data type realisation .....        | 28        |
| 4.1.1             | Common Header.....                             | 28        |
| 4.1.2             | Output message data types.....                 | 32        |
| 4.2               | PCEHR views .....                              | 33        |
| 4.2.1             | Prescription and Dispense View.....            | 33        |
| 4.2.2             | Observation View.....                          | 34        |
| 4.2.3             | Health Check Schedule View.....                | 35        |
| 4.2.4             | Medicare Overview .....                        | 35        |
| 4.2.5             | Pathology Report View .....                    | 36        |
| 4.2.6             | Diagnostic Imaging Report View .....           | 39        |
| 4.2.7             | Health Record Overview.....                    | 43        |
| <b>5</b>          | <b>Engineering viewpoint.....</b>              | <b>51</b> |
| 5.1               | Discovery services .....                       | 51        |
| <b>Appendix A</b> | <b>XSD and WSDL.....</b>                       | <b>52</b> |
| <b>Appendix B</b> | <b>Common types .....</b>                      | <b>54</b> |
| <b>Appendix C</b> | <b>PCEHR formats.....</b>                      | <b>62</b> |
| <b>Acronyms</b>   | <b>.....</b>                                   | <b>63</b> |
| <b>Glossary</b>   | <b>.....</b>                                   | <b>64</b> |
| <b>References</b> | <b>.....</b>                                   | <b>65</b> |

# 1 Introduction

## 1.1 Purpose

This document provides an implementable technical interface specification for the PCEHR View Service.

This document must be read in conjunction with the *PCEHR View Service - Logical Service Specification* [[PCEHR-VS-LSS](#)] and the *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification* [[PCEHR-DE-TSS](#)].

## 1.2 Intended audience

This document is intended for use by implementers of systems interfacing with the PCEHR system, such as clinical information systems (CIS) and conformant portals.

This includes:

- Developers and implementers of software products which seek to interact with the PCEHR system (normative)
- Jurisdictional eHealth programs (informative)
- The Australian Health Informatics Standards development community (informative).

This is a technical document which makes use of the UML 2.3 standard [[UML2010](#)].

This document assumes that the reader is familiar with:

- UML and service-oriented architecture concepts and patterns
- *PCEHR Concept of Operations* [[PCEHR-CON-OPS](#)], September 2011 release
- RM-ODP (Reference Model of Open Distributed Processing) reference model [[RM-ODP](#)]
- XDS.b Cross Document Exchange [[XDS](#)].
- *PCEHR View Service Logical Service Specification* [[PCEHR-VS-LSS](#)]
- *ATS 5820-2010 E-health Web Services Profile* [ATS 5820-2010](#)
- *ATS 5821-2010 E-health XML Secured Payload Profiles* [ATS 5821-2010](#).

## 1.3 Context

The *PCEHR View Service Logical Service Specification* [[PCEHR-VS-LSS](#)] presents a platform-independent specification of the PCEHR View Service. This technical service specification presents an implementable interface that is supported by the PCEHR system and can be used by systems integrating to the PCEHR system.

[Figure 1](#) shows how the set of operations addressed within this specification fit into the broader set of PCEHR functionality.

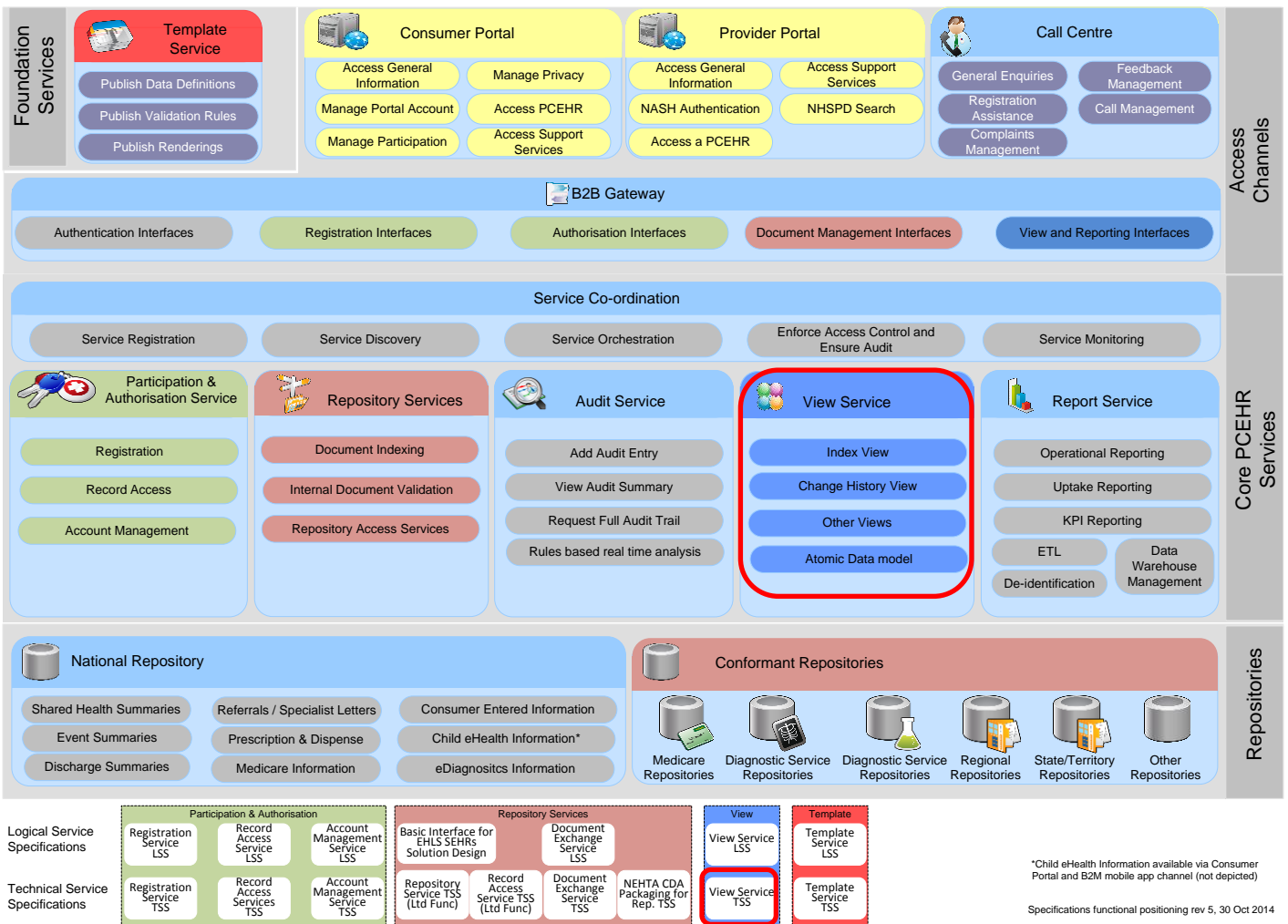


Figure 1 – PCEHR functions addressed

## 1.4 Scope of document

This technical service specification binds the services, services interfaces and operations defined in the logical service specification onto a technology platform to a level of detail sufficient to support the implementation of external interfacing systems.

### 1.4.1 In scope

The scope of this specification is to provide implementation level detail of the interfaces that external systems will use to interact with the PCEHR View Service.

The main scope of this specification can be summarised as:

- interface technical details (e.g. communication protocol, encoding)
- request and response message layouts
- message interactions
- error messages expected
- message transmission security
- operational details.

### 1.4.2 Out of scope

This document does not cover any user interaction via an integrated system or specify any user interface. This document deals solely with machine-level interactions.

## 1.5 Conformance points

This specification contains conformance points that identify normative requirements that are to be met by identified members of the View Service interface user system roles (as described in the logical service specification) in order to comply with this specification when interacting with the View Service interface.

Conformance points include requirements on a party (Service Invoker) invoking the service and the party (Service Provider) providing the service.

Any capability required to meet a conformance point **SHALL** be considered part of the requirements to be met under this specification.

Conformance points are identified within this document by the means of the following notation:

|                 |   |
|-----------------|---|
| <b>VIEW-T 0</b> | This is an example only. Conformance points <b>SHALL</b> be numbered and contain an identifier of VIEW-T which identifies them as being applicable to the View Service technical service specification. |
|-----------------|---|

The keywords **SHALL**, **SHALL NOT**, **SHOULD** and **SHOULD NOT** in this document are to be interpreted as described in IETF's RFC 2119 [[RFC2119](#)].

Note that the conformance point numbering is non-consecutive in some sections; however, numbers remain uniquely assigned to each conformance points.

## 1.6 Document map

Figure 2 shows how this document and other PCEHR artefacts are grouped according to the eHealth Interoperability Framework layers of abstraction and viewpoints.

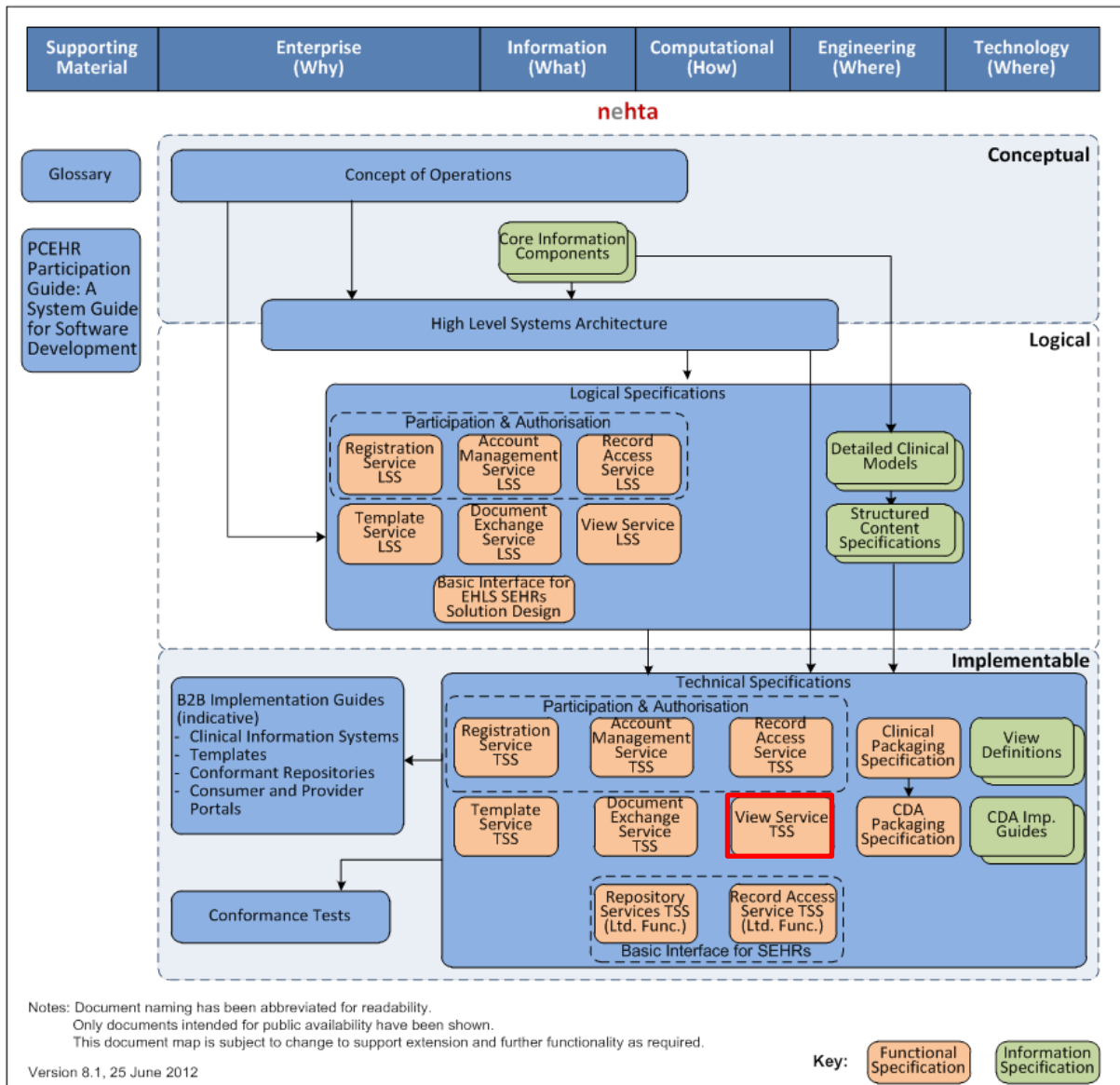


Figure 2 – Document map



## 2 Standards and technology platform

A standards and technology platform is a collection of standards and technologies that may be used collectively to realise an implementation of one or more service interfaces specified within a logical service specification.

A single service interface within a logical specification must be realised fully by a single technology platform. However, each service interface specified within a logical specification may be realised wholly on different standards and technology platforms.

The technology platform for this specification is comprised of interaction through web service interfaces that conform to the relevant elements of the Australian Technical Specification *E-health Web Services Profiles* [ATS 5820-2010] and IHE cross-enterprise document sharing-b [XDS] for document related operations. The technical specification for document exchange using XDS.b interface is defined in the *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification* [PCEHR-DE-TSS].

This specification depends on the following infrastructure services:

- Healthcare Identifiers (HI) Service for identification of healthcare provider organisations (HPI-O), healthcare provider individuals (HPI-I) and the subject of care (an individual identified by an IHI).
- The National Authentication Service for Health (NASH) for the provision of X.509 certificates used for signing and encryption.

### *Conformance points*

The following conformance points define the application of the *E-health Web Services Profile* [ATS 5820-2010] to service interactions:

- |                 |   |
|-----------------|---|
| <b>VIEW-T 1</b> | All implementations <b>SHALL</b> conform to the Web Services Base Profile from ATS 5820-2010 for all web service invocations. |
| <b>VIEW-T 2</b> | All implementations <b>SHALL</b> implement the TLS Security Profile from ATS 5820-2010 for all web service invocations.       |

## 3 Computational viewpoint

The computational viewpoint addresses how the service interfaces and service operations defined in the logical service specification map onto the operation and transport specifications provided by the standards and technology platform.

### 3.1 Security

- VIEW-T 3** View Users **SHALL** use NASH certificates for authentication when implementing TLS Security Profile from ATS 5820-2010.
- VIEW-T 31** The *Service Invoker* and *Service Provider* **SHALL** include a Transmission Signature (section 4.1.1.4) containing a signed attestation of elements contained within the SOAP message on all SOAP Request and Response messages, except where the response contains a SOAP Fault.
- VIEW-T 32** The *Service Invoker* and *Service Provider* **SHALL** create the signature using a certificate that asserts the same identity as that asserted in the TLS connection.
- VIEW-T 33** The *Service Provider* **SHOULD** respond to an invalid Transmission Signature by rejecting the entire message and responding with an error defined in ATS 5820-2010.

### 3.2 Service interface realisation

This section shows the service interfaces defined in the *PCEHR View Service – Logical Service Specification* [PCEHR-VS-LSS] and specifies how these are realised on the chosen technology platform.

Table 1 below shows how the logical operations are realised in this technical service specification.

*Table 1 – Logical to technical service specification mapping table*

| Logical Service Specification (LSS) | Technical Service Specification (TSS) |
|-------------------------------------|---------------------------------------|
| getView                             | getView                               |
| getChangeHistoryView                | getChangeHistoryView                  |
| getAuditView                        | getAuditView                          |
| getDocumentList                     | registryStoredQuery (ITI-18)          |
| getRepresentativeList               | getRepresentativeList                 |
| getIndividualDetailsView            | getIndividualDetailsView              |

#### *Conformance points*

- VIEW-T 4** All implementations **SHALL** comply with applicable conformance points specified in the *PCEHR View Service - Logical Service Specification* [PCEHR-VS-LSS].

#### 3.2.1 getView

This operation returns the requested PCEHR view to the healthcare provider.

### 3.2.1.1 Actors and roles

#### **Role 1: getView Service Invoker**

The *getView Service Invoker* represents the party responsible for obtaining views from the PCEHR system. This role will typically be realised by a conformant portal, a clinical information system or a contracted service provider.

#### **Role 2: getView Service Provider**

The *getView Service Provider* role represents the party responsible for supplying views of information relating to PCEHR stored information, so that it may be accessed by authorised *Service Invoker*. This role will be fulfilled by the national PCEHR System.

### 3.2.1.2 Pre-condition

*Conformance points*

**VIEW-T 5** The *Service Invoker* **SHALL** set the PCEHR individual IHI to the *ihiNumber* in the PCEHR Header.

### 3.2.1.3 Post-conditions

*Conformance points*

**VIEW-T 6** The *Service Provider* **SHALL** return a response containing the PCEHR assembled view based on the access level of the healthcare provider organisation for the provided IHI.

### 3.2.1.4 Interaction

*Conformance points*

**VIEW-T 7** This operation **SHALL** be realised as a synchronous call between the *Service Invoker* and the *Service Provider*.

### 3.2.1.5 Inputs, outputs and faults

This section details the data which is submitted to the service as an input, the response returned and the details of any faults. The data types are realised as XML Schema Definitions (XSD) (referenced in [Appendix A](#)).

The service interfaces will use the WSDLs referenced in [Appendix A](#).

#### **Input message**

*Table 2 – getView Input Message*

| Element Name    | Type   | Cardinality | Remarks   |
|-----------------|--------|-------------|---|
| <b>GetView</b>  |        | <b>1..1</b> | The schema elements are used to automatically determine what view it is |
| view            | xs:any | 1..1        | Refer to individual view parameters below for each type of view         |
| <b>/GetView</b> |        |             |   |

The schema elements are used to automatically determine which view is being requested by the Service Invoker. The XSD has a strongly typed schema. This includes all of the views under a single choice element. When parsing the XML data against this, it will automatically determine which view it is.

For details on the different views' input parameters, please refer to Section [4.2](#) in this document.

### **Output message**

Table 3 – getView output message

| <b>Element Name</b>     | <b>Type</b>                             | <b>Cardinality</b> | <b>Remarks</b>  |
|-------------------------|---|--------------------|---|
| <b>GetViewResponse</b>  |   | <b>1..1</b>        |   |
| <b>ResponseStatus</b>   |   | <b>1..1</b>        |   |
| code                    | String                                  | 1..1               | Status Code for the result of the transaction   |
| description             | String                                  | 1..1               | Brief status description  |
| details                 | String                                  | 0..1               | Additional detail of the response   |
| <b>/ResponseStatus</b>  |   |                    |   |
| <b>View</b>             |   | <b>0..1</b>        |   |
| templateID              | String                                  | 1..1               | Template identifier for template used to display the CDA <sup>®</sup> view  |
| data                    | xs:Any (Base64Binary custom XML or ZIP) | 1..1               | Use MTOM/XOP to optimise transmission.<br>For a details on the different views <data> returned, see section <a href="#">4.2</a> PCEHR Views in this document. |
| <b>/View</b>            |   |                    |   |
| <b>/GetViewResponse</b> |   |                    |   |

For details on the different view <data> returned please refer to Section [4.2](#) in this document. The view data in the output message will depend on the getView input message <view> parameters.

#### *Informative note*

With the exception of naming conventions and explicit support for MTOM-XOP, this technical service specification is closely aligned with the specification provided within *ATS 5820-2010 E-health Web Services Profiles*.

The Message Transmission Optimization Mechanism (MTOM) is used to separate out binary data, which is otherwise base64-encoded, and send it in separate binary attachments using a MIME Multipart/Related message.

Sending the data in binary format significantly reduces its size, thus optimising the transmission of the SOAP message.

XOP processing is used to serialise it into a MIME Multipart/Related message. The XOP processing extracts the base64Binary data from the SOAP message and packages it as separate binary attachments.

### **Service fault**

Please refer to the error codes in Section [4.1.2.2](#).

## **3.2.2 getChangeHistoryView**

This operation returns the list of document metadata that has been registered to the PCEHR system for a specific document.

XDS.b AdhocQueryResponse object is used to represent the list of document metadata.

### **3.2.2.1 Actors and roles**

#### **Role 1: getChangeHistoryView Service Invoker**

The *getChangeHistoryView Service Invoker* role represents the party responsible for obtaining views from the PCEHR system. This role will typically be realised by a conformant portal, a clinical information system or a contracted service provider.

#### **Role 2: getChangeHistoryView Service Provider**

The *getChangeHistoryView Service Provider* role represents the party responsible for supplying views of information relating to PCEHR stored information, so that it may be accessed by authorised users. This role will be fulfilled by the national PCEHR system.

### **3.2.2.2 Pre-condition**

*Conformance points*

|                 |  |
|-----------------|--|
| <b>VIEW-T 8</b> | The <i>Service Invoker</i> <b>SHALL</b> set the documentId to the document unique identifier for which the document change history information is being requested. |
|-----------------|--|

### **3.2.2.3 Post-conditions**

*Conformance points*

|                 |   |
|-----------------|---|
| <b>VIEW-T 9</b> | The <i>Service Provider</i> <b>SHALL</b> return sets of document change history information for the specified document. |
|-----------------|---|

|                  |   |
|------------------|---|
| <b>VIEW-T 10</b> | The <i>Service Provider</i> <b>SHALL NOT</b> return sets of document change history information when the healthcare provider organisation does not have access to the specified document. |
|------------------|---|

### **3.2.2.4 Interaction**

*Conformance points*

|                  |  |
|------------------|--|
| <b>VIEW-T 11</b> | This operation <b>SHALL</b> be realised as a synchronous query between the <i>Service Invoker</i> and the <i>Service Provider</i> . The response <b>SHALL</b> be returned on the same software communication connection. |
|------------------|--|

### 3.2.2.5 Inputs, outputs and faults

This section details the data which is submitted to the service as an input, the response returned and the details of any faults. The data types are realised as XSDs (reference in [Appendix A](#)).

The WSDLs and service interfaces for this service are referenced in [Appendix A](#).

#### **Input message**

Table 4 – *getChangeHistoryView* Input Message

| Element Name                 | Type   | Cardinality | Remarks                       |
|------------------------------|--------|-------------|-------------------------------|
| <b>getChangeHistoryView</b>  |        | <b>1..1</b> |                               |
| documentID                   | String | 1..1        | The identifier for a document |
| <b>/getChangeHistoryView</b> |        |             |                               |

#### **Output message**

This operation returns IHE XDS.b AdhocQueryResponse, which contains a list of document metadata from the document registry.

Please refer to query.xsd for AdhocQueryResponse. The query.xsd is in the XDS.b - supporting material [[XDS.b SM](#)] (/schema/ebRS).

Table 5 is the mapping table for the DocumentMetadata realisation to the XDS.b document registry.

Table 5 – *Logical Document Metadata Mapping Table*

| LSS field                  | Description  | XDS.b field name                      |
|----------------------------|--|---------------------------------------|
| Authoring Organisation     | The identifier of the organisation that authored the document.   | XDSDocumentEntry.authorInstitution    |
| Authoring Individual       | The identifier of the individual that authored the document.   | XDSDocumentEntry.authorPerson         |
| Document Type Code         | A code relating to the type of document being retrieved.   | XDSDocumentEntry.classCode            |
| Document Type Display Name | A display friendly name for the document type.   | XDSDocumentEntry.classCodeDisplayName |
| PCEHR Template Identifier  | The identifier of the template this document conforms to.  | XDSDocumentEntry.formatCode           |
| Document ID                | A unique object identifier relating to the document. This must be unique within the PCEHR system and must be equivalent to the identifier of the root CDA <sup>®</sup> Document within the CDA <sup>®</sup> Package. | XDSDocumentEntry.uniqueId             |
| Title                      | An optional title for the given document.  | XDSDocumentEntry.title                |
| Document Creation Time     | The time the document was created.   | XDSDocumentEntry.creationTime         |

| LSS field                        | Description  | XDS.b field name  |
|----------------------------------|--|---|
| Service Start Time               | The datetime the service being performed, which caused the document to be created, started.  | XDSDocumentEntry.serviceStartTime   |
| Service Stop Time                | The datetime the service being performed, which caused the document to be created, stopped.<br><br>The Service Stop Time may be set to the same value as the Service Start Time in order to indicate the datetime of an event. | XDSDocumentEntry.serviceStopTime  |
| Document Hash                    | A SHA-1 hash representation of the document.   | XDSDocumentEntry.hash   |
| Keyword                          | One or more keywords that are related to the document submission.<br><br>Both these fields must be <i>excluded</i> from submission.  | XDSDocumentEntry.eventCodeList<br><br>XDSDocumentEntry.eventCodeListDisplayNam<br>e |
| Healthcare Facility Type Code    | A code identifying the type of healthcare facility where the event relating to this document submission request initiated.   | XDSDocumentEntry.healthcareFacilityTypeCod<br>e                                     |
| Healthcare Facility Type Name    | A display friendly name for the above code.  | XDSDocumentEntry.healthcareFacilityTypeCod<br>eDisplayName                          |
| Clinical Speciality Code         | A code identifying the clinical speciality where the event relating to this document submission request initiated.   | XDSDocumentEntry.practiceSettingCode  |
| Clinical Speciality Display Name | A display friendly name for the above speciality.  | XDSDocumentEntry.practiceSettingCodeDispla<br>yName                                 |
| N/A                              | This field is not present in the LSS definition of the Document Metadata as it is in the Common Header.<br><br>The value from the common header should be replicated into this field.  | XDSDocumentEntry.sourcePatientId  |
| N/A                              | This mandatory XDS.b field is not supported by PCEHR.<br><br>It shall be set to a value of 'NA'.   | XDSDocumentEntry.confidentialityCode  |
| N/A                              | This field is not required by the logical model presented within the LSS but is a mandatory field within XDS.<br><br>This field shall be set to the same value as that provided in the classCode field.                        | XDSDocumentEntry.typeCode   |
| N/A                              | This field is not required by the logical model presented within the LSS but is a mandatory field within XDS.<br><br>This field shall be set to the same value as that provided in the classCodeDisplayName field.             | XDSDocumentEntry.typeCodeDisplayName  |
| Common Header.<br>IHI Number     | This value <b>SHALL</b> be set to the same value as the XDSDocumentEntry.sourcePatientId.  | XDSDocumentEntry.patientId  |

| LSS field | Description   | XDS.b field name                   |
|-----------|---|------------------------------------|
| N/A       | This field is not required by the logical model presented within the LSS but is a mandatory field within XDS.<br>Set to a fixed value of 'en-AU'. | XSDSDocumentEntry.<br>languageCode |
| N/A       | The MIME type of the document provided.<br>This field is set to a fixed value of 'application/zip'.   | XSDSDocumentEntry.<br>mimeType     |
| N/A       | This will be the entryUUID allocated to the XDS Document Entry object within the PCEHR registry.  | XSDSDocumentEntry.<br>entryUUID    |
| N/A       | The size of the CDA <sup>®</sup> document.<br>This field is mandatory for ITI-42 document registrations.  | XSDSDocumentEntry.<br>size         |

### **Service FAULT**

Please refer to section 4.2.6 of the *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification* [[PCEHR-DE-TSS](#)] for the XDS Service Fault.

### **3.2.3 getAuditView**

This operation returns an audit trail from the PCEHR system for organisations and individuals. The organisation may be either a healthcare provider or, in an exceptional case, a non-healthcare provider. Healthcare providers obtain their identification (HPI-O) from the HI Service to access and view audit trails. However, organisations that are not healthcare providers receive a special identifier from the PCEHR system operator to access and view audit trails. Individuals, on the other hand, obtain their identification number IHI from the HI Service to access and view audit trails of their own PCEHR.

The getAuditView operation returns information based on the type of identifier supplied, as follows:

- If the getAuditView service receives a request from a healthcare provider organisation with an HPI-O, then the getAuditView returns the audit events of the provider across multiple PCEHRs.
- If the getAuditView service receives a request for a non-healthcare organisation with a specially issued identifier from the PCEHR system operator, then the getAuditView returns the audit events of the non-healthcare provider across multiple PCEHRs.
- If the getAuditView service receives a request from an individual with an IHI, then only the audit events for the PCEHR that the individual owns will be returned.

The audit view data presented to the requestor will contain data appropriate for the requestor's access rights and role in the system.

Organisation requestors are able to access only a subset (a limited section) of audit events, while consumers (the owners of PCEHRs) can access all their audit events.



### 3.2.3.1 Actors and roles

#### **Role 1: *getAuditView Service Invoker***

The *getAuditView Service Invoker* role represents the party responsible for obtaining views from the PCEHR system. This role will typically be realised by a conformant portal, a clinical information system or a contracted service provider acting on behalf of one of those system types.

#### **Role 2: *getAuditView Service Provider***

The *getAuditView Service Provider* role represents the party responsible for supplying views of information relating to PCEHR stored information, so that it may be accessed by authorised users. This role will be fulfilled by the national PCEHR system.

### 3.2.3.2 Pre-condition

*Conformance points*

**VIEW-T 12** The *Service Invoker* **SHALL** set the Date To and Date From.

### 3.2.3.3 Post-conditions

*Conformance points*

**VIEW-T 13** The *Service Provider* **SHALL** return an audit trail applicable to the PCEHR role within the specified period of time defined in the input message.

### 3.2.3.4 Interaction

*Conformance points*

**VIEW-T 14** This operation **SHALL** be realised as a synchronous query between the *Service Invoker* and the *Service Provider*. The response **SHALL** be returned on the same software communication connection.

### 3.2.3.5 Inputs, outputs and faults

This section details the data which is submitted to the service as an input, the response returned and the details of any faults. The data types are realised as XSDs as referenced in [Appendix A](#).

The WSDLs and service interfaces for this service are also referenced in [Appendix A](#).

#### ***Input message***

Table 6 – *getAuditView* Input Message

| Element Name         | Type     | Cardinality | Remarks                          |
|----------------------|----------|-------------|----------------------------------|
| <b>GetAuditView</b>  |          | <b>1..1</b> |                                  |
| dateFrom             | dateTime | 1..1        | The start date of the date range |
| dateTo               | dateTime | 1..1        | The end date of the date range   |
| <b>/GetAuditView</b> |          |             |                                  |

**Output message**

Table 7 – getAuditView Output Message

| Element Name                | Type     | Cardinality | Remarks   |
|-----------------------------|----------|-------------|---|
| <b>GetAuditViewResponse</b> |          | <b>1..1</b> |   |
| <b>ResponseStatus</b>       |          | <b>1..1</b> |   |
| code                        | String   | 1..1        | Status code for the result of the transaction       |
| description                 | String   | 1..1        | Brief status description                            |
| details                     | String   | 0..1        | Additional detail of the response                   |
| <b>/ResponseStatus</b>      |          |             |   |
| <b>AuditView</b>            |          | <b>0..1</b> |   |
| <b>EventTrail</b>           |          | <b>1..*</b> |   |
| businessEvent               | String   | 1..1        | Unique internal event identifier                    |
| eventTimeStamp              | DateTime | 1..1        | Business event date time                            |
| <b>AuditEvent</b>           |          | <b>0..1</b> |   |
| auditEventID                | String   | 0..1        | Unique identifier of audit event                    |
| <b>ParticipantDetails</b>   |          | <b>0..1</b> |   |
| providerID                  | String   | 0..1        | HPI-I number  |
| providerName                | String   | 0..1        | Provider name                                       |
| accessingHPIO               | String   | 0..1        | An identifier accepted by the PCEHR system operator |
| accessingHPIOName           | String   | 0..1        | Accessing organisation Name                         |
| participatingHPIO           | String   | 0..1        | Participating organisation                          |
| participatingHPIOName       | String   | 0..1        | Participating organisation name                     |
| userID                      | String   | 0..1        | User Id   |
| userName                    | String   | 0..1        | User Name   |
| displayRole                 | String   | 0..1        | The role of the participant                         |
| <b>/ParticipantDetails</b>  |          |             |   |
| <b>AccessedEntity</b>       |          | <b>0..1</b> |   |
| ihiNumber                   | String   | 0..1        | IHI number  |
| ihiName                     | String   | 0..1        | Individual name                                     |
| subjectType                 | String   | 0..1        | Subject type  |
| subject                     | String   | 0..1        | Subject   |
| <b>/AccessedEntity</b>      |          |             |   |

| Element Name              | Type     | Cardinality | Remarks   |
|---------------------------|----------|-------------|---|
| <b>ParticipantAction</b>  |          | <b>0..1</b> |   |
| actionType                | String   | 0..1        | Create, Read, Update, Delete  |
| operationPerformed        | String   | 0..1        | Operation performed   |
| reason                    | String   | 0..1        | IncorrectIdentity, MedicalInaccuracy, ElectToRemove, IHIStatusIsDecreased, NoLegalAppointmentAuthorised, NoOwnershipOfPCEHR, IHINotActive, IHINotVerified, TermsAndConditionsWereNotAccepted, Death, WithdrawalFromParticipation  |
| approvalDatetime          | DateTime | 0..1        | Approval date time  |
| approvalRole              | String   | 0..1        | Approval role   |
| approvalName              | String   | 0..1        | Approval name   |
| statusPriorActivation     | String   | 0..1        | Status prior activation   |
| <b>/ParticipantAction</b> |          |             |   |
| <b>AccessConditions</b>   |          | <b>0..1</b> |   |
| accessLevel               | String   | 0..1        | Self, General, Limited  |
| accessPermission          | String   | 0..1        | Permit, Deny  |
| accessConditions          | String   | 0..1        | OpenAccess, PACAccess, PACXAccess, EmergencyAccess, LocalConsentAccess, AuthorisedRepresentativeAccess, NominatedRepresentativeAccess, IncorrectCode, LocalConsentAccessDenied, AccessRevoked<br><br>Note that PACC is now called Record Access Code. PACCX is now called Limited Document Access Code. However the reference data strings representing these remain unchanged. |
| <b>/AccessConditions</b>  |          |             |   |
| <b>/AuditEvent</b>        |          |             |   |
| <b>LogEvent</b>           |          | <b>0..1</b> |   |
| messageLogLevel           |          | 1..1        | WARN,ERROR,DEBUG,FATAL,AUDIT,INFO   |
| <b>StatusDetails</b>      |          | <b>1..1</b> |   |
| code                      | String   | 1..1        | Code  |
| description               | String   | 1..1        | Description   |

| Element Name                 | Type   | Cardinality | Remarks   |
|------------------------------|--------|-------------|---|
| details                      | String | 0..1        | Details   |
| <b>/StatusDetails</b>        |        |             |   |
| <b>ErrorDetails</b>          |        | <b>0..1</b> |   |
| code                         | String | 1..1        | PCEHR_SUCCESS,<br>PCEHR_ERROR_1600  |
| description                  | String | 1..1        | Description depending on the code. Will reflect the category of codes such as a description of Success, Technical Failure or Functional Failure |
| details                      | String | 0..1        | Details   |
| <b>/ErrorDetails</b>         |        |             |   |
| <b>/LogEvent</b>             |        |             |   |
| <b>/EventTrail</b>           |        |             |   |
| <b>/AuditView</b>            |        |             |   |
| <b>/GetAuditViewResponse</b> |        |             |   |

**Service fault**

Please refer to the error codes in Section [4.1.2.2](#).

**3.2.4 registryStoredQuery**

The getDocumentList operation is realised using registryStoredQuery operation defined in the *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification* section 3.3.3.

This operation returns a list of XDS.b XSDSDocumentEntry objects that can be realised to derive document list within the client system.

**3.2.4.1 Actors and roles****Role 1: registryStoredQuery Service Invoker**

The *registryStoredQuery Service Invoker* role represents the party responsible for obtaining views from the PCEHR system. This role will typically be realised by a conformant portal, a clinical information system or a contracted service provider acting on behalf of one of those system types.

**Role 2: registryStoredQuery Service Provider**

The *registryStoredQuery Service Provider* role represents the party responsible for supplying views of information relating to PCEHR stored information, so that it may be accessed by authorised users. This role will be fulfilled by the national PCEHR system.

### 3.2.4.2 Pre-conditions

*Conformance points*

**VIEW-T 15** The *Service Invoker* shall comply with all the pre-condition conformance points defined in the *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification*, Section 3.3.3 ITI-18 Registry Stored Query.

### 3.2.4.3 Post-conditions

*Conformance points*

**VIEW-T 16** The *Service Invoker* shall comply with all the post-condition conformance points defined in the *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification*, Section 3.3.3 ITI-18 Registry Stored Query.

### 3.2.4.4 Interaction

*Conformance points*

**VIEW-T 17** The *Service Invoker* shall comply with all the interaction conformance points defined in the *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification*, Section 3.3.3 ITI-18 Registry Stored Query.

### 3.2.4.5 Inputs, outputs and faults

All inputs, outputs and faults data types are defined in the *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification*, section 3.3.3.

#### **Input message**

Please refer to query.xsd in [Appendix A](#) for AdhocQueryRequest.

**VIEW-T 18** The *Service Invoker* **SHALL** comply with the query id defined in *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification*, section 3.3.3 ITI-18 Registry Stored Query.

**VIEW-T 19** The *Service Invoker* **SHALL** comply with the query parameter defined in *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification*, section 3.3.3 ITI-18 Registry Stored Query.

#### **Output message**

Please refer to query.xsd or AdhocQueryResponse (the query.xsd is in the XDS.b - supporting material [[XDS.b SM](#)] /schema/ebRS) and *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification*.

#### **Service fault**

Please refer to the *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification*.

## 3.2.5 getRepresentativeList

This operation returns the list of representatives associated with a particular individual's PCEHR.

### 3.2.5.1 Actors and roles

#### **Role 1: *getRepresentativeListView Service Invoker***

The *getRepresentativeListView Service Invoker* role represents the party responsible for obtaining views from the PCEHR system. This role will be typically realised by a conformant portal, a clinical information system or a contracted service provider.

#### **Role 2: *getRepresentativeList Service Provider***

The *getRepresentativeList Service Provider* role represents the party responsible for supplying views of information relating to PCEHR stored information, so that it may be accessed by the authorised *Service Invoker*.

### 3.2.5.2 Pre-condition

*Conformance points*

**VIEW-T 41** The *Service Invoker* **SHALL** set the PCEHR individual IHI to the *ihiNumber* in the PCEHR Header.

### 3.2.5.3 Post-conditions

*Conformance points*

**VIEW-T 42** The *Service Provider* **SHALL NOT** return the list of Nominated Representatives when the request is from a healthcare provider organisation or individual.

### 3.2.5.4 Interaction

*Conformance points*

**VIEW-T 43** This operation **SHALL** be realised as a synchronous call between the *Service Invoker* and the *Service Provider*. The response **SHALL** be returned on the same software communication connection.

### 3.2.5.5 Inputs, outputs and faults

This section details the data which is submitted to the service as an input, the response returned and the details of any faults. The data types are realised as XML Schema Definitions (XSD) (referenced in [Appendix A](#)).

The WSDLs and service interfaces for this service are also referenced in [Appendix A](#).

#### ***Input message***

Table 8 – *getRepresentativeList* Input Message

| Element Name                  | Type | Cardinality | Remarks |
|-------------------------------|------|-------------|---------|
| <b>getRepresentativeList</b>  |      | <b>1..1</b> |         |
| <b>/getRepresentativeList</b> |      |             |         |

## Output message

Table 9 – getRepresentativeList Output Message

| Element Name                         | Type   | Cardinality | Remarks   |
|--------------------------------------|--------|-------------|---|
| <b>getRepresentativeListResponse</b> |        | <b>1..1</b> |   |
| <b>responseStatus</b>                |        |             |   |
| code                                 | String | 1..1        | Status code for the result of the transaction   |
| description                          | String | 1..1        | Brief status description  |
| details                              | String | 0..1        | Additional details of the response  |
| <b>/responseStatus</b>               |        |             |   |
| <b>PCEHRRecord</b>                   |        | <b>0..1</b> |   |
| <b>representativeList</b>            |        | 1..1        |   |
| <b>representative</b>                |        | 1..*        |   |
| ID                                   | String | 1..1        | PCEHR Identity  |
| Type                                 |        | 1..1        | Values ('Authorised Representative', 'Legally Appointed Authorised Representative', 'Parent', 'Guardian', 'Nominated Representative') |
| <b>name</b>                          |        | 1..1        | The full name of the representative   |
| nameTitle                            | String | 0..1        | Refer to TECH.SIS.HI.02 section 2 <a href="#">[TECH.SIS.HI.02]</a>  |
| familyName                           | String | 1..1        | Individual surname  |
| givenName                            | String | 0..2        | Individual given names  |
| nameSuffix                           | String | 0..1        | Refer to TECH.SIS.HI.02 section 2   |
| usage                                | String | 0..1        | Values ('M', 'N', 'O', 'B', 'L', 'R')   |
| preferred                            | String | 0..1        | Values ('true', 'false')  |
| conditionalUse                       | String | 0..1        | Values ('1', '2', '3', '4')   |
| <b>/name</b>                         |        |             |   |
| <b>address</b>                       |        | 0..1        |   |
| <b>unstructuredAddressLine</b>       |        | <b>0..1</b> |   |
| australianAddressLine                | String | 0..1        |   |
| postcode                             | String | 1..1        | Property postcode   |
| suburb                               | String | 1..1        | Property suburb name  |
| state                                | String | 1..1        | Refer to TECH.SIS.HI.02 section 16  |
| <b>/unstructuredAddressLine</b>      |        |             |   |

| Element Name                    | Type   | Cardinality | Remarks  |
|---------------------------------|--------|-------------|--|
| <b>australianStreetAddress</b>  |        | <b>0..1</b> |  |
| state                           |        | 1..1        | Refer to TECH.SIS.HI.02 section 16                                       |
| postcode                        |        | 1..1        | Property postcode  |
| suburb                          |        | 1..1        | Property suburb name   |
| addressSiteName                 |        | 0..1        | Full name of physical building or property                               |
| <b>unitGroup</b>                |        |             |  |
| unitType                        | String | 1..1        | Mandatory if level number is present. Refer to TECH.SIS.HI.02 section 14 |
| unitNumber                      | String | 0..1        | Mandatory if unit type is present  |
| <b>/unitGroup</b>               |        |             |  |
| <b>levelGroup</b>               |        |             |  |
| levelType                       | String | 1..1        | Mandatory if level type is present                                       |
| levelNumber                     | String | 0..1        | Mandatory if level number is present. Refer to TECH.SIS.HI.02 section 14 |
| <b>/levelGroup</b>              |        |             |  |
| lotNumber                       | String | 0..1        | Mandatory if street number is not present                                |
| streetNumber                    | String | 0..1        | Numeric or alphanumeric reference of property street number              |
| streetName                      | String | 1..1        | Property street name   |
| streetType                      | String | 0..1        | Refer to TECH.SIS.HI.02 section 13                                       |
| streetSuffix                    | String | 0..1        | Refer to TECH.SIS.HI.02 section 17                                       |
| <b>/australianStreetAddress</b> |        |             |  |
| <b>australianPostalAddress</b>  |        | <b>0..1</b> |  |
| state                           | String | 1..1        | Refer to TECH.SIS.HI.02 section 16                                       |
| postcode                        | String | 1..1        | Property postcode  |
| suburb                          | String | 1..1        | Property suburb name   |
| <b>postalDeliveryGroup</b>      |        |             |  |
| postalDeliveryType              | String | 1..1        | Refer to TECH.SIS.HI.02 section 18                                       |
| postalDeliveryNumber            | String | 0..1        | Channel of postal delivery. Mandatory if postal delivery type            |



| Element Name                          | Type | Cardinality | Remarks  |
|---------------------------------------|------|-------------|--|
|                                       |      |             | code is present, unless type code is Care PO, CMA or CMB |
| <b>/postalDeliveryGroup</b>           |      |             |  |
| <b>/australianPostalAddress</b>       |      |             |  |
| <b>/address</b>                       |      |             |  |
| <b>/representative</b>                |      |             |  |
| <b>/representativeList</b>            |      |             |  |
| <b>/PCEHRRecord</b>                   |      |             |  |
| <b>/getRepresentativeListResponse</b> |      |             |  |

*Note: The address is optional—it will not be populated. It is provided for future use.*

**Service fault**

Please refer to the error codes in Section [4.1.2.2](#).

**3.2.6 getIndividualDetailsView**

This operation `getIndividualDetailsView` returns the details about the individual consumer, including information such as name, date of birth, age, emergency contact and carer information. It does not return the individual consumer’s mailing address when a provider requests to view an individual’s details.

**3.2.6.1 Actors and roles**

**Role 1: `getIndividualDetailsView Service Invoker`**

The `getIndividualDetailsView Service Invoker` role represents the party responsible for obtaining views from the PCEHR system. This role will be typically realised by a conformant portal, a clinical information system or a contracted service provider.

**Role 2: `getIndividualDetailsView Service Provider`**

The `getIndividualDetailsView Service Provider` role represents the party responsible for supplying views of information relating to PCEHR stored information, so that it may be accessed by an authorised Service Invoker.

**3.2.6.2 Pre-condition**

*Conformance points*

**VIEW-T 44** The *Service Invoker* **SHALL** set the PCEHR individual IHI to the `ihiNumber` in the PCEHR Header.

### 3.2.6.3 Post-conditions

*Conformance points*

**VIEW-T 46** The *Service Provider* **SHALL NOT** return the mailing address of the individual consumer when the request is from a healthcare provider.

### 3.2.6.4 Interaction

*Conformance points*

**VIEW-T 45** This operation **SHALL** be realised as a synchronous call between the *Service Invoker* and the *Service Provider*. The response **SHALL** be returned on the same software communication connection.

### 3.2.6.5 Inputs, outputs and faults

This section details the data that is submitted to the service as an input, the response returned and the details of any faults. The data types are realised as XML Schema Definitions (XSD) (referenced in [Appendix A](#)).

The WSDLs and service interfaces for this service are also referenced in [Appendix A](#).

#### ***Input message***

Table 10 – *getIndividualDetailsView* Input Message

| Element Name                     | Type | Cardinality | Remarks |
|----------------------------------|------|-------------|---------|
| <b>getIndividualDetailsView</b>  |      | <b>1..1</b> |         |
| <b>/getIndividualDetailsView</b> |      |             |         |

#### ***Output message***

Table 11 – *getIndividualDetailsView* Output Message

| Element Name                             | Type   | Cardinality | Remarks                                       |
|--|--------|-------------|---|
| <b>getIndividualDetailstViewResponse</b> |        | <b>1..1</b> |   |
| <b>responseStatus</b>                    |        | <b>1..1</b> |   |
| code                                     | String | 1..1        | Status code for the result of the transaction |
| description                              | String | 1..1        | Brief status description                      |
| details                                  | String | 0..1        | Additional details of the response            |
| <b>/responseStatus</b>                   |        |             |   |
| <b>individual</b>                        |        | 0..1        |   |
| <b>name</b>                              |        | 1..1        |   |
| nameTitle                                | String | 0..1        | Refer to TECH.SIS.HI.02 section 2             |
| familyName                               | String | 1..1        | Individual surname                            |
| givenName                                | String | 0..2        | Individual given names                        |
| nameSuffix                               | String | 0..1        | Refer to TECH.SIS.HI.02 section 2             |

| Element Name                             | Type   | Cardinality | Remarks  |
|--|--------|-------------|--|
| usage                                    | String | 0..1        | Values ('M', 'N', 'O', 'B', 'L', 'R')  |
| preferred                                | String | 0..1        | Values ('true', 'false')   |
| conditionalUse                           | String | 0..1        | Values ('1', '2', '3', '4')  |
| <b>/name</b>                             |        |             |  |
| sex                                      | String | 1..1        | Values ("F", "I", "M", "N")  |
| dateOfBirth                              | Date   | 1..1        |  |
| dateAccuracyIndicator<br>Type            | String | 0..1        |  |
| ihiRecordStatus                          | String | 0..1        | Values ('Verified', 'Unverified')  |
| ihiStatus                                | String | 0..1        | Values ('Active', 'Deceased', 'Retired', 'Resolved', 'Expired')  |
| ihiNumber                                | String | 1..1        | IHI number   |
| <b>contactDetails</b>                    |        | 0..1        |  |
| mobilePhoneNumber                        | String | 0..1        |  |
| emailAddress                             | String | 0..1        |  |
| <b>/contactDetails</b>                   |        |             |  |
| <b>contactPersons</b>                    |        | <b>0..1</b> |  |
| <b>contactPerson</b>                     |        | <b>1..*</b> |  |
| type                                     | String | 1..1        | Values ("Emergency", "Next of Kin", "Carer")   |
| name                                     | String | 1..1        | Contact full name  |
| phoneNumber                              | String | 0..1        | Contact phone number   |
| emailAddress                             | String | 0..1        | Contact email address  |
| relationship                             | String | 0..1        | Description of the relationship between the record holder and the emergency contact, next of kin or carer (e.g. son, father, aunt, uncle, friend, etc) |
| <b>/contactPerson</b>                    |        |             |  |
| <b>/contactPersons</b>                   |        |             |  |
| indigenousStatus                         | String | 1..1        | Values ('1','2','3','4','9'). Refer to METeOR identifier: 291036 <sup>1</sup>  |
| <b>/individual</b>                       |        |             |  |
| <b>/getIndividualDetailsViewResponse</b> |        |             |  |

**Service fault**

Please refer to the error codes in Section [4.1.2.2](#).

<sup>1</sup> See [meteor.aihw.gov.au](http://meteor.aihw.gov.au) from Australian Institute for Health and Welfare

## 4 Information viewpoint

The information viewpoint addresses common information models that are used in the service operations defined in the computational viewpoint.

### 4.1 Information data type realisation

This section describes the information data type realisation from the logical service specification [PCEHR-VS-LSS] into this technical specification.

#### 4.1.1 Common Header

Common Header is realised into the SOAP Header on web service calls as:

- WS-Addressing Header
- Timestamp
- Signature
- PCEHRHeader

##### 4.1.1.1 WS-Addressing header (Request)

Table 12 – WS-Addressing Header (Request)

| Element Name          | Type   | Cardinality | Remarks  |
|-----------------------|--------|-------------|--|
| <b>WS-Addressing</b>  |        | <b>1..1</b> |  |
| MessageId             | UUID   | 1..1        | Unique id for the message.<br>E.g. uuid:95b48e68-5dfc-4dbd-ab05-aaa855cec03f   |
| To                    | anyURI | 1..1        | Value: e.g.<br><a href="http://www.w3.org/2005/08/addressing/anonymous">http://www.w3.org/2005/08/addressing/anonymous</a> |
| Action                | anyURI | 1..1        | Identifier (full namespace) of the virtual service being invoked.  |
| <b>/WS-Addressing</b> |        |             |  |

*Conformance points*

**VIEW-T 20** The *Service Invoker* **SHALL** set these values in accordance with ATS 5820-2010, Section 6 - Metadata.

#### 4.1.1.2 WS-Addressing header (Response)

Table 13 – WS-Addressing Header (Response)

| Element Name          | Type   | Cardinality | Remarks  |
|-----------------------|--------|-------------|--|
| <b>WS-Addressing</b>  |        | <b>1..1</b> |  |
| MessageId             | UUID   | 1..1        | Unique id for the message.<br>E.g. uuid:95b48e68-5dfc-4dbd-ab05-aaa855cec03f |
| RelatesTo             | UUID   | 1..1        | MessageId of the original service request.                                   |
| Action                | anyURI | 1..1        | Identifier (full namespace) of the virtual service being invoked.            |
| <b>/WS-Addressing</b> |        |             |  |

#### Conformance points

**VIEW-T 21** The *Service Provider* **SHALL** set these values in accordance with ATS 5820-2010, Section 6 - Metadata.

#### 4.1.1.3 Transmission timestamp

Table 14 – Timestamp Header

| Element Name      | Type     | Cardinality | Remarks   |
|-------------------|----------|-------------|---|
| <b>timestamp</b>  |          | <b>1..1</b> |   |
| created           | dateTime | 1..1        | Time at SOAP message creation. Inclusive of Date, Time and UTC Timezone.<br>E.g. 2011-10-25T03:06:13Z |
| expires           | dateTime | 0..1        | For future use.   |
| <b>/timestamp</b> |          |             |   |

#### 4.1.1.4 Transmission signature

Table 15 – Transmission Signature in SOAP Header

| Element Name      | Type         | Cardinality | Remarks   |
|-------------------|--------------|-------------|---|
| <b>signature</b>  |              | <b>1..1</b> |   |
| signature         | ds:signature | 1..1        | A signed attestation of key SOAP message elements using the ATS 5821 specification. |
| <b>/signature</b> |              |             |   |

- VIEW-T 34** The element signed by the Transmission Signature by all parties **SHALL** include a SOAP Body Element.
- VIEW-T 36** The elements signed by the Transmission Signature by the *Service Invoker* **SHALL** also include PCEHR Header element (as defined in Section 4.1.1.5).
- VIEW-T 38** The elements signed by the Transmission Signature **SHOULD** include the Transmission Timestamp element (as defined in Section 3.1).
- VIEW-T 39** The *Service Invoker* and *Service Provider* **SHALL** calculate the ds:DigestValue as specified in "section 4. XML Signature Profile" of [ATS 5821-2010](#) prior to the application of MTOM/XOP.
- VIEW-T 40** The ds:SignedInfo element type **SHALL** be realised in conformance with "section 4. XML Signature Profile" as specified in [ATS 5821-2010](#).
- VIEW-T 47** The fragment identifier used within the ds:Reference element, specified in "section 4. XML Signature Profile" of [ATS 5821-2010](#), **SHALL** refer to the "ID" attribute specified in section 3.3 of W3C-XML-1.1 of the element referenced [[W3C-XML](#)].
- VIEW-T 48** As specified in [ATS 5821-2010](#), the ds:signature element type **SHALL** be realised in conformance with section 4. XML Signature Profile".

### 4.1.1.5 PCEHRHeader

PCEHRHeader is used for all interactions with the PCEHR system.

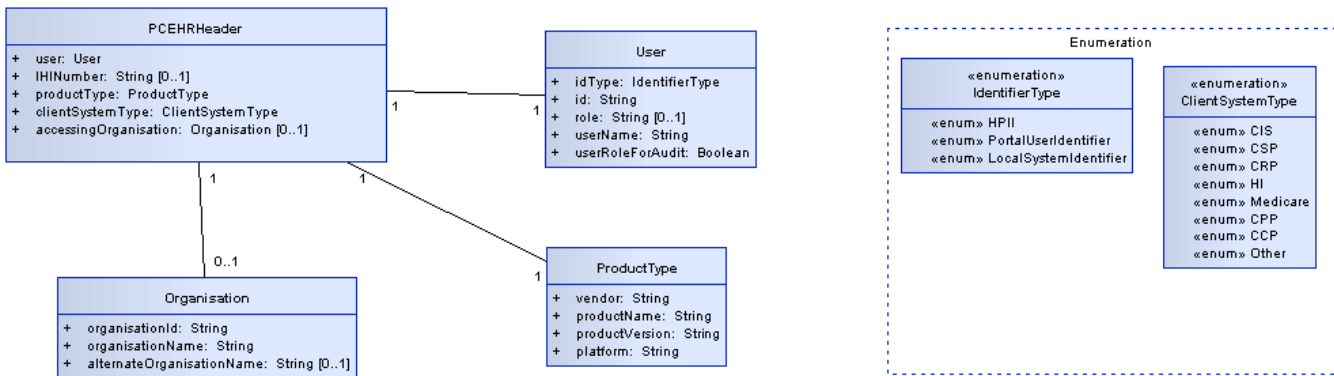


Figure 3 – PCEHRHeader

Table 16 – PCEHRHeader

| Element Name       | Type           | Cardinality | Remarks  |
|--------------------|----------------|-------------|--|
| <b>PCEHRHeader</b> |                | <b>1..1</b> |  |
| <b>User</b>        |                | <b>1..1</b> |  |
| IDType             | IdentifierType | 1..1        | Values ("HPII", "PortalUserIdentifier", "LocalSystemIdentifier") |
| ID                 | String         | 1..1        | PCEHR identity, 16 digit HPI-I number or Other User ID           |
| role               | String         | 0..1        | Optional User Role   |
| userName           | String         | 1..1        | Username   |

| Element Name                   | Type    | Cardinality | Remarks  |
|--------------------------------|---------|-------------|--|
| useRoleForAudit                | Boolean | 1..1        | If true, PCEHR will use sourceSystemUserRole as the user name for audit, else PCEHR will use sourceSystemUserName as the user name for audit           |
| <b>/User</b>                   |         |             |  |
| iHINumber                      | String  | 0..1        | PCEHR individual's 16-digit IHI number   |
| <b>productType</b>             |         | <b>1..1</b> |  |
| vendor                         | String  | 1..1        | Client system's vendor name  |
| productName                    | String  | 1..1        | Client system's product name   |
| productVersion                 | String  | 1..1        | Client system's product version  |
| platform                       | String  | 1..1        | Client system's platform   |
| <b>/productType</b>            |         |             |  |
| clientSystemType               | String  | 1..1        | Values ("CCP", "CPP", "CIS", "CSP", "CRP", "HI", "Medicare", "Other")  |
| <b>accessingOrganisation</b>   |         | <b>0..1</b> |  |
| organisationID                 | String  | 1..1        | The 16-digit Healthcare Organisation Identifier (HPI-O) or approved alternative (a unique identifier issued by the PCEHR System Operator e.g. a PAI-O) |
| organisationName               | String  | 1..1        | Organisation Name  |
| alternateOrganisationName      | String  | 0..1        | Alternate Organisation Name  |
| <b>/ accessingOrganisation</b> |         |             |  |
| <b>/PCEHRHeader</b>            |         |             |  |

*Conformance points*

**VIEW-T 22** The *Service Invoker* **SHALL** set the ihiNumber to the IHI of the individual who owns the PCEHR.

**VIEW-T 23** The *Service Invoker* **SHALL** set the accessingOrganisation to the accessing organisation attempting to query the PCEHR.

**VIEW-T 24** The *Service Invoker* **SHALL** set the User.ID to either:

- Preferably, if known, the 16-digit of HPI-I of the provider attempting to access the PCEHR;
- Or alternatively, a local identifier of the provider/support operator attempting to access the PCEHR.

**VIEW-T 25** The *Service Invoker* **SHALL** set the User.IDType to the relevant value to identify the type of User.ID.

**VIEW-T 26** The *Service Invoker* **SHALL** set the productType.vendor to the vendor name of the client system.

- VIEW-T 27** The *Service Invoker* **SHALL** set the `productType.productName` to the product name of the client system.
- VIEW-T 28** The *Service Invoker* **SHALL** set the `productType.productVersion` to the product version of the client system.
- VIEW-T 29** The *Service Invoker* **SHALL** set the `productType.platform` to the client system vendor.

## 4.1.2 Output message data types

### 4.1.2.1 Common response status

All PCEHR system operations will return common response field.

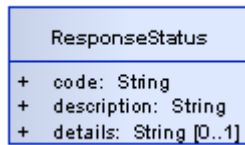


Figure 4 – ResponseStatus

Table 17 – ResponseStatus Responses

| Element Name            | Type   | Cardinality | Remarks                                       |
|-------------------------|--------|-------------|---|
| <b>ResponseStatus</b>   |        | <b>1..1</b> |   |
| code                    | String | 1..1        | Status Code for the result of the transaction |
| description             | String | 1..1        | Brief status description                      |
| details                 | String | 0..1        | Additional detail of the response             |
| <b>/ ResponseStatus</b> |        |             |   |

#### Conformance points

- VIEW-T 30** The *Service Provider* **SHALL** set the appropriate code from [Table 18](#) for any business failure.

### 4.1.2.2 Error codes

The PCEHR success and error codes in [Table 18](#) are applicable to the View Service.

**Note:** The error code tables may be subject to extension as the development of the PCEHR system progresses.



Table 18 – Response Codes

| Code             | Description   | View web service                         |
|------------------|---|--|
| PCEHR_SUCCESS    | SUCCESS   | All                                      |
| PCEHR_ERROR_0004 | Authorisation denied<br>(e.g. insufficient privileges to retrieve the view)   | All                                      |
| PCEHR_ERROR_0011 | Unexpected service exception error<br>(e.g. in case view cannot be generated) | All                                      |
| PCEHR_ERROR_0015 | IHI is required   | All                                      |
| PCEHR_ERROR_0016 | Invalid service version   | getView                                  |
| PCEHR_ERROR_0138 | Invalid start date  | getView                                  |
| PCEHR_ERROR_0139 | Invalid end date  | getView                                  |
| PCEHR_ERROR_0506 | Invalid request   | All                                      |
| PCEHR_ERROR_1600 | Too many entries found (more than 500 entries)                                | getAuditView                             |
| PCEHR_ERROR_3002 | Document metadata failed validation   | getChangeHistoryView,<br>getDocumentList |
| PCEHR_ERROR_5101 | PCEHR not found   | getIndividualDetailsView                 |
| PCEHR_ERROR_6001 | No representatives found  | getRepresentativeList                    |
| PCEHR_ERROR_6002 | Invalid observation type  | getView (Observation View)               |
| PCEHR_ERROR_6003 | Invalid document source   | getView (Observation View)               |

For Common Header Status codes and descriptions, please refer to *PCEHR Document Exchange using the IHE XDS.b Platform Technical Service Specification [PCEHR-DE-TSS]* and *ATS 5820-2010*.

## 4.2 PCEHR views

This section describes different request and response data for the PCEHR views provided by the getView web service. The subsections outline the request parameters and response data for the different views.

### 4.2.1 Prescription and Dispense View

The parameters for the Prescription and Dispense View getView request are given in [Table 19](#).

Table 19 – prescriptionAndDispenseView parameters

| Element Name                         | Type   | Cardinality | Remarks  |
|--------------------------------------|--------|-------------|--|
| <b>prescriptionAndDispenseView</b>   |        | <b>1..1</b> |  |
| versionNumber                        | String | 1..1        | Version number of the view corresponding to the namespace version.                                   |
| fromDate                             | Date   | 1..1        | Filter the view by start date value. Prescription or dispense clinical event date (serviceStopTime). |
| toDate                               | Date   | 1..1        | Filter the view by end date value. Prescription or dispense clinical event date (serviceStopTime).   |
| <b>/ prescriptionAndDispenseView</b> |        |             |  |

Please refer to [Appendix A](#) for the Prescription and Dispense View XDS schema.

This view data is returned as a CDA<sup>®</sup> package.

For specific details of the view's data element returned in the getView response, also refer to the clinical document specifications defined for Prescription and Dispense View [[PCEHR-PDV](#)].

## 4.2.2 Observation View

The parameters for the Observation View getView request are given in Table 20.

Table 20 – observationView parameters

| Element Name             | Type   | Cardinality | Remarks   |
|--------------------------|--------|-------------|---|
| <b>observationView</b>   |        | <b>1..1</b> |   |
| versionNumber            | String | 1..1        | Version number of the view corresponding to the namespace version |
| fromDate                 | Date   | 1..1        | Filter the view by start date value                               |
| toDate                   | Date   | 1..1        | Filter the view by end date value                                 |
| observationType          | String | 1..1        | Values: 'HEADCIRCUMFERENCE', 'HEIGHT', 'WEIGHT', 'BMI'            |
| documentSource           | String | 1..1        | Values: 'PROVIDER', 'PERSONAL', 'ALL'                             |
| referenceData            | String | 1..1        | Simple element reference data 'WHO' or 'CDC'                      |
| <b>/ observationView</b> |        |             |   |

Please refer to [Appendix A](#) for the Observation View XDS schema.

This view data is returned as a CDA<sup>®</sup> package.

For further details of the view, see the Observation View – PCEHR Conformance Profile [PCEHR-OBS].

### 4.2.3 Health Check Schedule View

The parameters for the Health Check Schedule View getView request are given in Table 21.

Table 21 – healthCheckScheduleView parameters

| Element Name                     | Type   | Cardinality | Remarks  |
|----------------------------------|--------|-------------|--|
| <b>healthCheckScheduleView</b>   |        | <b>1..1</b> |  |
| versionNumber                    | String | 1..1        | Version number of the view corresponding to the namespace version  |
| jurisdiction                     | String | 1..1        | Individual state's health check schedule. Enumerations: 'NSW', 'QLD', 'ACT', 'NT', 'VIC', 'WA', 'TAS' and 'SA' |
| <b>/ healthCheckScheduleView</b> |        |             |  |

Please refer to [Appendix A](#) for the Health Check Schedule View XDS schema.

This view data is returned as a CDA<sup>®</sup> package. For further details of the view, see the *Health Check Schedule View – PCEHR Conformance Profile* [[PCEHR-HCSV](#)].

### 4.2.4 Medicare Overview

The parameters for the Medicare Overview getView request parameters are given in Table 22.

Table 22 – Medicare Overview parameters

| Element Name              | Type   | Cardinality | Remarks  |
|---------------------------|--------|-------------|--|
| <b>medicareOverview</b>   |        | <b>1..1</b> |  |
| versionNumber             | String | 1..1        | Version number of the view corresponding to the namespace version. Two versions are available:<br>Version <b>1.0</b> EXCLUDES document links in the narrative;<br>Version <b>1.1</b> INCLUDES document links in the narrative, |
| fromDate                  | Date   | 1..1        | Filter the view by start date value for PBS/MBS service items  |
| toDate                    | Date   | 1..1        | Filter the view by end date value for PBS/MBS service items  |
| <b>/ medicareOverview</b> |        |             |  |

**Informative note**

The information from the Australian Childhood Immunisation Register (ACIR) and Australian Organ Donor Register (AODR) will not have date range filtering applied in the view.

Please refer to [Appendix A](#) for the Medicare Overview XDS schema.

This view data is returned as a CDA<sup>®</sup> package. For specific details of the view data element returned in the getView response, please refer to the specifications defined for Medicare Overview.

**4.2.5 Pathology Report View****4.2.5.1 Request**

The parameters for the Pathology Report View getView request parameters are given in [Table 23](#).

*Table 23 – pathologyReportView parameters*

| Element Name                 | Type   | Cardinality | Remarks  |
|------------------------------|--------|-------------|--|
| <b>pathologyReportView</b>   |        | <b>1..1</b> |  |
| versionNumber                | String | 1..1        | Version number of the view corresponding to the namespace version<br>Version <b>1.0</b> is the CURRENT version of the Pathology Report View. |
| fromDate                     | Date   | 1..1        | Filter the view by start date value for the Pathology Report items based on the Specimen Collection Date                                     |
| toDate                       | Date   | 1..1        | Filter the view by end date value for Pathology Report items based on the Specimen Collection Date.  |
| <b>/ pathologyReportView</b> |        |             |  |

**Informative note**

Please refer to [Appendix A](#) for the Pathology Report View XDS schema.

This view data is returned as a XML document which is Base64 encoded in the response object.

**4.2.5.2 Response**

Please refer to [Appendix A](#) for the Pathology Report View Response XDS schema.

The data returned from in the Pathology Report View getView payload is provided in [Table 24](#).

Table 24 – pathologyReportViewResponse Data

| Element Name                       | Type                               | Cardinality | Remarks   |
|------------------------------------|------------------------------------|-------------|---|
| <b>pathologyReportViewResponse</b> |                                    | <b>1..1</b> |   |
| <b>viewMetadata</b>                |                                    | <b>1..1</b> |   |
| <b>individualProfile</b>           |                                    | <b>1..1</b> |   |
| ihiNumber                          | ihiNumber                          | <b>1..1</b> | A 16-digit string representing the individual's IHI                                       |
| individual                         | <a href="#">individualTypeSupp</a> | <b>1..1</b> | The individual who is the subject of this view payload                                    |
| <b>/ individualProfile</b>         |                                    |             |   |
| <b>viewParameters</b>              |                                    | <b>1..1</b> |   |
| dateFromFilter                     | date                               | <b>1..1</b> | The Date to Filter by Start Date which was passed by the parameter to the getView Service |
| dateToFilter                       | date                               | <b>1..1</b> | The Date to Filter by End Date which was passed by the parameter to the getView Service   |
| viewVersionNumber                  | string                             | <b>1..1</b> | The version of the View Service which was returned in the View Response                   |
| <b>/ viewParameters</b>            |                                    |             |   |
| informationAvailable               | boolean                            | <b>1..1</b> | Indicates whether any Pathology Reports are available within the provided parameters      |
| <b>/viewMetadata</b>               |                                    |             |   |
| <b>pathologyReport</b>             |                                    | <b>0..*</b> |   |

| Element Name                    | Type                         | Cardinality | Remarks   |
|---------------------------------|------------------------------|-------------|---|
| dateAvailableToConsumer         | string                       | 1..1        | The date on which the Pathology Report will be available to the consumer. (If this date is in the past, then the report is already available to the consumer.)<br>Note: If this report is superseded, than the dateAvailableToConsumer will also be superseded.<br>See Appendix C.2 for more information regarding date and time formats. |
| reportInformation               | pathologyReportInformationDT | 1..1        | Report information such as a dates, status, document Identifiers.<br>See pathologyReportInformationDT and the <i>Pathology Report Structured Content Specification [PATH-SCS]</i> for further detail.   |
| clinicalDocumentAuthor          | providerInformationDT        | 1..1        | The details of the author of the clinical document.<br>See providerInformationDT  |
| reportingPathologistInformation | providerInformationDT        | 1..1        | Pathologist who is responsible for the pathology test result.   |
| testRequesterInformation        | requesterInformationDT       | 1..1        | Party that arranges provision of a service.   |
| <b>pathologyTestResult</b>      |                              | <b>1..*</b> |   |
| specimenCollectionDate          | string                       | 1..1        | See the <i>Pathology Report Structured Content Specification</i> for further detail.<br>See Appendix C.2 for more information regarding date and time formats.  |
| pathologyDiscipline             | CodedType                    | 1..1        | See the <i>Pathology Report Structured Content Specification</i> for further detail.  |
| testResultName                  | CodedType                    | 1..1        | See the <i>Pathology Report Structured Content Specification</i> for further detail.  |
| overallTestResultStatus         | CodedType                    | 1..1        | See the <i>Pathology Report Structured Content Specification</i> for further detail<br>Also note that this element is being shortened as described in the informative note below and in <a href="#">Table 25</a>  |
| <b>/ pathologyTestResult</b>    |                              |             |   |
| <b>/ pathologyReport</b>        |                              |             |   |

| Element Name                     | Type | Cardinality | Remarks |
|----------------------------------|------|-------------|---------|
| /<br>pathologyReportViewResponse |      |             |         |

**Informative note**

This view data is returned as an XML document which is base64 encoded in the response object. For further details of the view, see the *eHealth Pathology Report View – Presentation and Data Usage Guide* [PATH-PG].

The Pathology Report View shortens the displayName for the overallTestResultStatus value. See Table 25 for details on how the HL7 0123 table is being shortened in the View Service.

Table 25 – View Service HL7 0123 Table displayName shorting

| displayName as it appears in the document  | Code | codeSystem Name   | codeSystem               | Shortened Displayname for view |
|--|------|-------------------|--------------------------|--------------------------------|
| Correction to results  | C    | HL7 result Status | 2.16.840.1.113883.12.123 | Corrected                      |
| Final results; results stored and verified. Can only be changed with a corrected result. | F    | HL7 result Status | 2.16.840.1.113883.12.123 | Final                          |
| Preliminary: A verified early result is available, final results not yet obtained.       | P    | HL7 result Status | 2.16.840.1.113883.12.123 | Preliminary                    |

**4.2.6 Diagnostic Imaging Report View**

**4.2.6.1 Request**

The parameters for the Diagnostic Imaging Report View getView request parameters are given in Table 26.

Table 26 – diagnosticImagingReportView parameters

| Element Name                | Type | Cardinality | Remarks |
|-----------------------------|------|-------------|---------|
| diagnosticImagingReportView |      | 1..1        |         |

|               |        |      |   |
|---------------|--------|------|---|
| versionNumber | String | 1..1 | Version number of the view corresponding to the namespace version<br>Version <b>1.0</b> is the CURRENT version of the Diagnostic Imaging Report View. |
| fromDate      | Date   | 1..1 | Filter the view by start date value for the Diagnostic Imaging Report items based on imaging date.  |
| toDate        | Date   | 1..1 | Filter the view by end date value for Diagnostic Imaging Report items based on imaging date.  |

**/  
diagnosticImagingReportView**

#### **Informative note**

Please refer to [Appendix A](#) for the Diagnostic Imaging Report View XDS schema. This view data is returned as an XML document which is base64 encoded in the response object.

#### **4.2.6.2 Response**

The data returned from in the Diagnostic Imaging Report View getView payload is provided in Table 27.

Table 27 – diagnosticImagingReportViewResponse data

| Element Name                               | Type                               | Cardinality | Remarks   |
|--|------------------------------------|-------------|---|
| <b>diagnosticImagingReportViewResponse</b> |                                    | <b>1..1</b> |   |
| <b>viewMetadata</b>                        |                                    | <b>1..1</b> |   |
| <b>individualProfile</b>                   |                                    | <b>1..1</b> |   |
| ihiNumber                                  | ihiNumber                          | <b>1..1</b> | A 16-digit string representing the individual's IHI.    |
| individual                                 | <a href="#">individualTypeSupp</a> | <b>1..1</b> | The individual who is the subject of this view payload. |
| <b>/ individualProfile</b>                 |                                    |             |   |
| <b>viewParameters</b>                      |                                    | <b>1..1</b> |   |



| Element Name                    | Type  | Cardinality | Remarks  |
|---------------------------------|---|-------------|--|
| dateFromFilter                  | date  | 1..1        | The Date to Filter by Start Date which was passed by the parameter to the getView Service.   |
| dateToFilter                    | date  | 1..1        | The Date to Filter by End Date which was passed by the parameter to the getView Service.   |
| viewVersionNumber               | string  | 1..1        | The version of the View Service which was returned in the View Response.   |
| <b>/ viewParameters</b>         |   |             |  |
| informationAvailable            | boolean                                       | 1..1        | Indicates whether any diagnostic imaging reports are available within the provided parameters  |
| <b>/viewMetadata</b>            |   |             |  |
| <b>diagnosticImagingReport</b>  |   | <b>0..*</b> |  |
| dateAvailableToConsumer         | string  | 1..1        | The on date which the Diagnostic Imaging Report will be available to the consumer. (If this date is in the past, then the report is already available to the consumer.)<br><br>Note: If this report is superseded, than the dateAvailableToConsumer will also be superseded. |
| reportInformation               | <a href="#">diagnosticReportInformationDT</a> | 1..1        | Report information such as dates, status, document identifiers.<br>See <a href="#">diagnosticReportInformationDT</a> and the <i>Diagnostic Imaging Report Structured Content Specification [DIAG-SCS]</i> for further detail.  |
| clinicalDocumentAuthor          | providerInformationDT                         | 1..1        | The details of the author of the clinical document.<br>See providerInformationDT   |
| reportingRadiologistInformation | providerInformationDT                         | 1..1        | Radiologist who is responsible for the report.   |
| imagingRequesterInformation     | requesterInformationDT                        | 1..1        | Party that arranges provision of a service.  |
| <b>imagingExaminationResult</b> |   | <b>1..*</b> |  |

| Element Name                                  | Type      | Cardinality | Remarks  |
|---|-----------|-------------|--|
| imagingServiceDateTime                        | string    | 1..1        | See the <i>Diagnostic Imaging Report Structured Content Specification [DIAG-SCS]</i> for further detail<br>See Appendix C.2 for more information regarding date and time formats |
| examinationResultName                         | CodedType | 1..1        | See the <i>Diagnostic Imaging Report Structured Content Specification</i> for further detail   |
| modality                                      | CodedType | 1..1        | See the <i>Diagnostic Imaging Report Structured Content Specification</i> for further detail   |
| <b>anatomicalSiteDetails</b>                  |           | <b>0..*</b> |  |
| anatomicalRegion                              | CodedType | 0..1        | See the <i>Diagnostic Imaging Report Structured Content Specification</i> for further detail   |
| <b>anatomicalLocation</b>                     |           | <b>0..*</b> |  |
| anatomicalLocationName                        | CodedType | 0..1        | See the <i>Diagnostic Imaging Report Structured Content Specification</i> for further detail   |
| laterality                                    | CodedType | 0..1        | See the <i>Diagnostic Imaging Report Structured Content Specification</i> for further detail   |
| / <b>anatomicalLocation</b>                   |           |             |  |
| / <b>anatomicalSiteDetails</b>                |           |             |  |
| overallTestResultStatus                       | CodedType | 0..1        | See the <i>Diagnostic Imaging Report Structured Content Specification</i> for further detail   |
| imageLocationInformation                      | String    | 0..1        | See the <i>Diagnostic Imaging Report Structured Content Specification</i> for further detail   |
| / <b>imagingExaminationResult</b>             |           |             |  |
| / <b>diagnosticImagingReport</b>              |           |             |  |
| / <b>diagnosticImagingReport ViewResponse</b> |           |             |  |

**Informative note**

Please refer to [Appendix A](#) for the Diagnostic Imaging Report View Result XDS schema.

This view data is returned as a XML document which is base64 encoded in the response object. For further details of the view, see the *eHealth Diagnostic Imaging Report View – Presentation and Data Usage Guide* [[DIAG-PG](#)].

## 4.2.7 Health Record Overview

### 4.2.7.1 Request

The parameters for the Health Record Overview getView request parameters are given in Table 28.

Table 28 – healthRecordOverview parameters

| Element Name                  | Type   | Cardinality | Remarks   |
|-------------------------------|--------|-------------|---|
| <b>healthRecordOverview</b>   |        | <b>1..1</b> |   |
| versionNumber                 | String | <b>1..1</b> | Version number of the view corresponding to the namespace version.<br><br>Version <b>1.0</b> has been DEPRECATED. No new implementations should use this version of the Health Record Overview. If you require further detail please consult the previous version of this document [ <a href="#">PCEHR-VS-TSS-1.6.1</a> ];<br><br>Version <b>1.1</b> CURRENT version of the Health Record Overview. |
| clinicalSynopsisLength        | Int    | <b>1..1</b> | Specifies the character length of the Clinical Synopsis that is to be returned for Event Summary Documents. If '0' is supplied the full clinical synopsis will be returned.   |
| <b>/ healthRecordOverview</b> |        |             |   |

#### **Informative note**

Please refer to [Appendix A](#) for the Health Record Overview XDS schema.

### 4.2.7.2 Response

The data returned from in the Health Record Overview getView payload is provided in Table 29.

Table 29 – healthRecordOverview Data

| Element Name                        | Type | Cardinality | Remarks |
|-------------------------------------|------|-------------|---------|
| <b>healthRecordOverviewResponse</b> |      | <b>1..1</b> |         |

| Element Name               | Type                               | Cardinality | Remarks   |
|----------------------------|------------------------------------|-------------|---|
| <b>viewMetadata</b>        |                                    | <b>1..1</b> |   |
| <b>individualProfile</b>   |                                    | <b>1..1</b> |   |
| ihiNumber                  | ihiNumber                          | <b>1..1</b> | A 16-digit string representing the individual's IHI   |
| individual                 | <a href="#">individualTypeSupp</a> | <b>1..1</b> | The individual who is the subject of this view payload  |
| indigenousStatus           | String                             | <b>0..1</b> | Will return a single integer in the string which represents the following: <ul style="list-style-type: none"> <li>"1" - Aboriginal but not Torres Strait Islander origin</li> <li>"2" - Torres Strait Islander but not Aboriginal origin</li> <li>"3" - Both Aboriginal and Torres Strait Islander origin</li> <li>"4" - Neither Aboriginal nor Torres Strait Islander origin</li> <li>"9" - indigenous status not stated/inadequately described</li> </ul> |
| veteranAndADFStatus        | String                             | <b>0..1</b> | Will return a single integer in the string which represents the following: <ul style="list-style-type: none"> <li>"1" - Never an Australian Defence Force (ADF) member</li> <li>"2" - Current or former serving ADF member who is a Department of Veterans' Affairs (DVA) client</li> <li>"3" - Current or former serving ADF member who is not a DVA client</li> <li>"9" - Veteran status not stated/inadequately described</li> </ul>                     |
| <b>/ individualProfile</b> |                                    |             |   |
| <b>viewParameters</b>      |                                    | <b>1..1</b> |   |
| clinicalSynopsisLength     | int                                | <b>1..1</b> | The Length of the Clinical Synopsis.  |
| viewVersionNumber          | String                             | <b>1..1</b> | The version of the View Service that was returned in the View Response.   |
| <b>/ viewParameters</b>    |                                    |             |   |
| <b>/viewMetadata</b>       |                                    |             |   |
| <b>newDocuments</b>        |                                    | <b>1..1</b> |   |
| informationAvailable       | boolean                            | <b>1..1</b> | Indicates whether any new documents are available. If this is set to false, there will be no document elements below.   |
| document                   | <a href="#">documentDT</a>         | <b>0..*</b> | Data regarding the new document   |
| <b>/ newDocuments</b>      |                                    |             |   |
| <b>sharedHealthSummary</b> |                                    | <b>1..1</b> |   |

| Element Name                         | Type             | Cardinality | Remarks   |
|--------------------------------------|------------------|-------------|---|
| informationAvailable                 | boolean          | 1..1        | Indicates whether a shared health summary is available. If this is set to false, there will be no Shared Health Summary elements below.   |
| <b>sharedHealthSummaryAtomicData</b> |                  | <b>0..1</b> |   |
| documentDate                         | String           | 1..1        | See the Shared Health Summary - Structured Content Specification [SHS-SCS]<br>See Appendix C.2 for more information regarding date and time formats.  |
| cdaDocumentTitle                     | String           | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| shsAuthorName                        | nameType Supp    | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| shsAuthorId                          | String           | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| shsAuthorDesignation                 | CodedType        | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| shsAuthorOrgName                     | String           | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| shsAuthorOrgId                       | String           | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| shsAuthorOrgAddress                  | addressTypeDT    | 0..1        | Note: This returns the first address associated with the author's organisation with the type 'WP' (workplace). If no address of type 'WP' is associated with the author's organisation, this element will not be returned.<br>See the <i>Shared Health Summary - Structured Content Specification</i> |
| shsAuthorOrgContactDetails           | contactDetailsDT | 0..*        | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| shsAuthorAddress                     | addressTypeDT    | 0..1        | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| shsAuthorContactDetails              | contactDetailsDT | 0..*        | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| <b>shsEntitlements</b>               |                  | <b>0..1</b> |   |
| <b>entitlement</b>                   |                  | <b>0..*</b> |   |
| entitlementNumberId                  | String           | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| entitlementType                      | CodedType        | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>   |

| Element Name                 | Type                           | Cardinality | Remarks  |
|------------------------------|--------------------------------|-------------|--|
| entitlementEffectiveTime     | timeStamp<br>DT                | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>  |
| <b>/ entitlement</b>         |                                |             |  |
| <b>/ shsEntitlements</b>     |                                |             |  |
| shsAuthorQualifications      | CodedType                      | 0..1        | See the <i>Shared Health Summary - Structured Content Specification</i>  |
| <b>medicinesList</b>         |                                | <b>1..1</b> |  |
| informationAvailable         | informatio<br>nAvailable<br>DT | 1..1        | Indicates whether a medicines list is available. If this is set to false, there will be no medicine elements below.        |
| <b>medicine</b>              |                                | <b>0..*</b> |  |
| medicineTitle                | CodedType                      | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>  |
| medicineDose                 | String                         | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>  |
| <b>medicineDesc</b>          |                                | <b>0..*</b> |  |
| indication                   | String                         | 0..1        | See the <i>Shared Health Summary - Structured Content Specification</i>  |
| comment                      | String                         | 0..1        | See the <i>Shared Health Summary - Structured Content Specification</i>  |
| <b>/ medicineDesc</b>        |                                |             |  |
| <b>/ medicine</b>            |                                |             |  |
| <b>/ medicinesList</b>       |                                |             |  |
| <b>advReactionsList</b>      |                                | <b>1..1</b> |  |
| informationAvailable         | informatio<br>nAvailable<br>DT | 1..1        | Indicates whether an adverse reaction list is available. If this is set to false there will be no document elements below. |
| <b>advReaction</b>           |                                | <b>0..*</b> |  |
| advReactionCause             | CodedType                      | 1..1        | See the <i>Shared Health Summary - Structured Content Specification</i>  |
| advReactionManifestatio<br>n | CodedType                      | 0..*        | See the <i>Shared Health Summary - Structured Content Specification</i>  |
| advReactionType              | CodedType                      | 0..1        | See the <i>Shared Health Summary - Structured Content Specification</i>  |
| <b>/ advReaction</b>         |                                |             |  |
| <b>/ advReactionsList</b>    |                                |             |  |
| <b>immunisationList</b>      |                                | <b>1..1</b> |  |
| informationAvailable         | informatio<br>nAvailable       | 1..1        | Indicates whether an immunisation list is available. If this is set to false there will                                    |

| Element Name                 | Type                       | Cardinality | Remarks   |
|------------------------------|----------------------------|-------------|---|
|                              | DT                         |             | be no document elements below.  |
| <b>immunisation</b>          |                            | <b>0..*</b> |   |
| immunisationDate             | timeStamp<br>DT            | <b>1..1</b> | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| immunisationTitle            | CodedType                  | <b>1..1</b> | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| immunisationSequenceNumber   | int                        | <b>0..1</b> | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| <b>/ immunisation</b>        |                            |             |   |
| <b>/ immunisationList</b>    |                            |             |   |
| <b>medHistoryList</b>        |                            | <b>1..1</b> |   |
| informationAvailable         | informationAvailable<br>DT | <b>3..3</b> | Indicates which medical history lists are available.<br><br>The element repeats three times for each list. The informationAvailable element has a sub-element of <i>flavor</i> , whose value will be set to "other", "problem" and "procedure" respectively. If a list is unavailable, the <i>value</i> sub-element is set to false, and an exclusion statement is returned as a coded element. |
| <b>problemAndDiagnosis</b>   |                            | <b>0..*</b> |   |
| medTitle                     | CodedType                  | <b>1..1</b> | Problem and Diagnosis Identification<br><br>See the <i>Shared Health Summary - Structured Content Specification</i>   |
| medDateO                     | timeStamp<br>DT            | <b>0..1</b> | Date of Onset<br><br>See the <i>Shared Health Summary - Structured Content Specification</i>  |
| medDateR                     | timeStamp<br>DT            | <b>0..1</b> | Date of Resolution/Remission<br><br>See the <i>Shared Health Summary - Structured Content Specification</i>   |
| medComment                   | string                     | <b>0..1</b> | Problem and Diagnosis Comment.<br><br>See the <i>Shared Health Summary - Structured Content Specification</i>   |
| <b>/ problemAndDiagnosis</b> |                            |             |   |
| <b>procedure</b>             |                            | <b>0..*</b> |   |
| medTitle                     | CodedType                  | <b>1..1</b> | Procedure Name  |

| Element Name                           | Type            | Cardinality | Remarks   |
|--|-----------------|-------------|---|
|  |                 |             | See the <i>Shared Health Summary - Structured Content Specification</i>   |
| medDateO                               | timeStamp<br>DT | 0..1        | MedDateO is <b>not</b> used in procedure  |
| medDateR                               | timeStamp<br>DT | 0..1        | The date <b>range</b> during which the Procedure occurred.<br><br>See the <i>Shared Health Summary - Structured Content Specification</i>   |
| medComment                             | string          | 0..1        | Procedure Comment.<br><br>See the <i>Shared Health Summary - Structured Content Specification</i>   |
| <b>/ procedure</b>                     |                 |             |   |
| <b>otherMedicalHistory</b>             |                 | <b>0..*</b> |   |
| medTitle                               | CodedType       | 1..1        | Medical History Item Description<br><br>See the <i>Shared Health Summary - Structured Content Specification</i>   |
| medDateO                               | timeStamp<br>DT | 0..1        | MedDateO is <b>not</b> used in otherMedicalHistory  |
| medDateR                               | timeStamp<br>DT | 0..1        | The date <b>range</b> during which the problem or diagnosis applied or the procedure occurred.<br><br>See the <i>Shared Health Summary - Structured Content Specification</i>                           |
| medComment                             | string          | 0..1        | Other/Unctaegorised Medical History Comment.<br><br>See the <i>Shared Health Summary - Structured Content Specification</i>   |
| <b>/ otherMedicalHistory</b>           |                 |             |   |
| <b>/ medHistoryList</b>                |                 |             |   |
| <b>/sharedHealthSummary AtomicData</b> |                 |             |   |
| <b>/ sharedHealthSummary</b>           |                 |             |   |
| <b>otherLinks</b>                      |                 | <b>1..1</b> | This section contains other Views and Documents relating to a patient's eHealth Record.<br><br>At the time of publication this will include the following Views and Documents (Subject to availablity): |



| Element Name         | Type                                      | Cardinality | Remarks   |
|----------------------|---|-------------|---|
|                      |   |             | <ul style="list-style-type: none"> <li>Medicare Overview</li> <li>Diagnostic Imaging View</li> <li>Pathology Index View</li> <li>Health Check Assessment View</li> <li>Prescription and Dispense View</li> <li>Personal Health Summary (Shared Health Summary)</li> <li>Advance Care Directive</li> </ul> <p>As new views and documents become supported by the PCEHR System, these items may appear as additional links in this list. Connecting systems must gracefully ignore any links which have not been implemented.</p> |
| <b>link</b>          |   | <b>1..*</b> |   |
| linkName             | string                                    | <b>1..1</b> | <p>The following linkNames are supported:</p> <ul style="list-style-type: none"> <li>MedicareOverview</li> <li>DiagnosticImagingView</li> <li>PathologyIndexView</li> <li>HealthCheckAssessmentView</li> <li>PrescriptionAndDispenseView</li> <li>PersonalHealthSummary</li> <li>AdvanceCareDirective</li> </ul>  |
| linkTitle            | string                                    | <b>1..1</b> | <p>The following titles are supported:</p> <ul style="list-style-type: none"> <li>Medicare Overview</li> <li>Diagnostic Imaging View</li> <li>Pathology Index View</li> <li>Health Check Assessment View</li> <li>Prescription and Dispense View</li> <li>Personal Health Summary</li> <li>Advance Care Directive</li> </ul>  |
| linkTarget           | anyURI                                    | <b>0..1</b> | <p>The links to the View or Document.</p> <p>If the link is to a Document (Personal Health Summary, Advance Care Directice) this will be in the PCEHR document link format.</p> <p>If the link is a view, then this link target is the name of the view (as provided linkName)</p>  |
| informationAvailable | boolean                                   | <b>1..1</b> | An indicator whether any information is available in the provided link.   |
| linkType             | string<br>enumeration("Document", "View") | <b>1..1</b> | Links may refer to either a document or view.   |

| Element Name                          | Type               | Cardinality | Remarks   |
|---------------------------------------|--------------------|-------------|---|
| <b>/ link</b>                         |                    |             |   |
| <b>/ otherLinks</b>                   |                    | <b>1..1</b> |   |
| <b>recentDocuments</b>                |                    | <b>1..1</b> |   |
| informationAvailable                  | boolean            | <b>1..1</b> | Indicates whether any recent documents are available. If this is set to false there will be no document elements below. |
| document                              | <b>document DT</b> | <b>0..*</b> | Data and metadata regarding the document.   |
| <b>/ recentDocuments</b>              |                    |             |   |
| <b>/ healthRecordOverviewResponse</b> |                    |             |   |

**Informative note**

Please refer to [Appendix A](#) for the Health Record Overview Result XDS schema.

This view data is returned as an XML document which is base64 encoded in the response object.

For further details of the view, see the Health Record Overview – Presentation and Data Usage Guide [[HRO-PG](#)].

The format for [XDSDocumentEntry.uniqueId] is described in conformance point DEXS-T 56 in the *PCEHR Document Exchange Technical Service Specification*.

## **5 Engineering viewpoint**

The engineering viewpoint includes definitions of mechanisms and functions to support distributed interactions between computational objects as a series of templates (i.e. patterns) for computational interactions. These, in turn, are parameterised to support a range of different policies defined in the enterprise, information or computational specifications.

### **5.1 Discovery services**

The location of the services exposed by the PCEHR system will be shared between parties before interaction. Dynamic discovery mechanisms will not be provided.

# Appendix A XSD and WSDL

## A.1 View Service schemas

The following XML schema defines the XSD for IHI ITI-58 Registry Store Query messages. The query.xsd can be found in the XDS.b -supporting material [[XDS.b SM](#)] (/schema/ebRS).

Table 30 below provides the name and description of the XML schema relevant for this specification. The schemas (XSD files) are published in NEHTA's *PCEHR B2B Client Library - Schema WSDL v2.0.0* [[PCEHR-B2B-LIB](#)].

Table 30 – View XML Schemas

| XML schema                                     | Schema description   |
|--|--|
| PCEHR_GetChangeHistoryView.xsd                 | Defines the data type for getChangeHistoryView operation.                |
| PCEHR_GetView.xsd                              | Defines the data type for getView operation.                             |
| PCEHR_GetAuditView.xsd                         | Defines the data type for getAuditView operation.                        |
| PCEHR_CommonTypes.xsd                          | Defines the XSD for common data associated with all the WSDLs interface. |
| PCEHR_GetRepresentativeList.xsd                | Defines the data type for the getRepresentativeList                      |
| PCEHR_GetIndividualDetailsView.xsd             | Defines the data type for the GetIndividualDetailsView                   |
| PCEHR_PrescriptionAndDispenseView.xsd          | Defines the data type for the PrescriptionAndDispense View               |
| PCEHR_ObservationView.xsd                      | Defines the data type for the Observation View                           |
| PCEHR_HealthCheckScheduleView.xsd              | Defines the data type for the HealthCheckSchedule View                   |
| PCEHR_MedicareOverview.xsd                     | Defines the data type for the MedicareOverview                           |
| PCEHR_PathologyReportView.xsd                  | Defines the data type for the PathologyReport View                       |
| PCEHR_PathologyReportView_Response.xsd         | Defines the data type of the response from the PathologyReport View.     |
| PCEHR_DiagnosticImagingReportView.xsd          | Defines the data type for the PathologyReport View                       |
| PCEHR_DiagnosticImagingReportView_Response.xsd | Defines the data type of the response from the PathologyReport View.     |
| PCEHR_HealthRecordOverview.xsd                 | Defines the data type for the HealthRecordOverview                       |
| PCEHR_HealthRecordOverview_Response.xsd        | Defines the data type of the response from the HealthRecordOverview.     |

## A.2 Web service interfaces

The following WSDLs specification defines the PCEHR View Service SOAP interface. They are published in NEHTA's *PCEHR B2B Client Library - Schema WSDL v2.0.0* [[PCEHR-B2B-LIB](#)].

*Table 31 – Web Service Interfaces*

| <b>WSDL</b>                                |
|--|
| B2B_GetViewInterface.wsdl                  |
| B2B_GetChangeHistoryViewInterface.wsdl     |
| B2B_GetAuditViewInterface.wsdl             |
| B2B_GetRepresentativeListInterface.wsdl    |
| B2B_GetIndividualDetailsViewInterface.wsdl |

## A.3 TLS binding

The following WSDLs defines the binding based on the TLS Security Profile defined in ATS 5820–2010.

*Table 32 – TLS Binding*

| <b>WSDL</b>                       |
|-----------------------------------|
| B2B_GetView.wsdl                  |
| B2B_GetChangeHistoryView.wsdl     |
| B2B_GetAuditView.wsdl             |
| B2B_GetRepresentativeList.wsdl    |
| B2B_GetIndividualDetailsView.wsdl |

# Appendix B Common types

## B.1 CodedType

| Element Name      | Type           | Cardinality | Remarks   |
|-------------------|----------------|-------------|---|
| <b>CodedType</b>  | <b>Complex</b> | <b>1..1</b> | OriginalText shall be displayed to the user unless it is unavailable, in which case displayName is to be displayed.<br><br>For further information, see Requirement 020665 from "Displaying the stored concepts extracted from an inbound non-CDA message" from the <i>Clinical Terminology - Guidance for Use of Medical Nomenclatures in Information Exchange</i> [CT-UMNIE]. |
| displayName       | String         | 0..1        | See the <i>Data Types Abstract Specification</i> from CDA <sup>®</sup> Release 2.0 [HL7-CDA]  |
| originalText      | String         | 0..1        | See the <i>Data Types Abstract Specification</i> from CDA <sup>®</sup> Release 2.0  |
| code              | String         | 0..1        | See the <i>Data Types Abstract Specification</i> from CDA <sup>®</sup> Release 2.0  |
| codeSystem        | String         | 0..1        | See the <i>Data Types Abstract Specification</i> from CDA <sup>®</sup> Release 2.0  |
| codeSystemName    | String         | 0..1        | See the <i>Data Types Abstract Specification</i> from CDA <sup>®</sup> Release 2.0  |
| codeSystemVersion | String         | 0..1        | See the <i>Data Types Abstract Specification</i> from CDA <sup>®</sup> Release 2.0  |

/ CodedType

## B.2 informationAvailableDT

| Element Name                  | Type                               | Cardinality | Remarks   |
|-------------------------------|------------------------------------|-------------|---|
| <b>informationAvailableDT</b> | <b>Extends</b><br><b>CodedType</b> | <b>1..1</b> | Adds two attributes to the CodedType.element. To indicate whether the contents of the element is information or an exclusion statement. |

|        |  |      |   |
|--------|--|------|---|
| value  | Attribute: Boolean                                     | 1..1 | If returned as true, the element will contain information.<br>If returned a false, then the element will contain an exclusion statement.  |
| flavor | Attribute: String<br>("Other", "Problem", "Procedure") | 1..1 | Stating whether the CodedType is relating to "other" (in the context of Medicines List, Adverse Reaction List, Medical History List, Immunisations List) or "Problem or "Procedure" in context of Medical History List. |

**/ informationAvailableDT**

### B.3 addressTypeDT

| Element Name         | Type           | Cardinality | Remarks  |
|----------------------|----------------|-------------|--|
| <b>addressTypeDT</b> | <b>Complex</b> | <b>1..1</b> |  |
| streetAddressLine    | String         | 0..1        | See the <i>Participation Data Specification [PAR-DS]</i> |
| country              | String         | 0..1        | See the <i>Participation Data Specification</i>          |
| unitType             | String         | 0..1        | See the <i>Participation Data Specification</i>          |
| unitID               | String         | 0..1        | See the <i>Participation Data Specification</i>          |
| additionalLocator    | String         | 0..*        | See the <i>Participation Data Specification</i>          |
| streetName           | String         | 0..1        | See the <i>Participation Data Specification</i>          |
| houseNumber          | String         | 0..1        | See the <i>Participation Data Specification</i>          |
| usage                | String         | 0..1        | See the <i>Participation Data Specification</i>          |
| streetNameType       | String         | 0..1        | See the <i>Participation Data Specification</i>          |
| direction            | String         | 0..1        | See the <i>Participation Data Specification</i>          |
| deliveryAddressLine  | String         | 0..*        | See the <i>Participation Data Specification</i>          |
| city                 | String         | 0..1        | See the <i>Participation Data Specification</i>          |
| state                | String         | 0..1        | See the <i>Participation Data Specification</i>          |
| postalCode           | String         | 0..1        | See the <i>Participation Data Specification</i>          |

**/ addressTypeDT**

### B.4 contactDetailsDT

| Element Name            | Type           | Cardinality | Remarks |
|-------------------------|----------------|-------------|---------|
| <b>contactDetailsDT</b> | <b>Complex</b> | <b>1..1</b> |         |

|       |  |      |   |
|-------|--|------|---|
| use   | String<br>("WP", "H",<br>"HP", "HV",<br>"AS", "EC",<br>"MC", "PG") | 1..1 | <ul style="list-style-type: none"> <li>• Workplace</li> <li>• Home</li> <li>• Primary Home</li> <li>• Vacation Home</li> <li>• Answering Service</li> <li>• Emergency Contact</li> <li>• Mobile Contact</li> <li>• Pager</li> </ul> |
| value | anyURI   | 1..1 | <p>Communication Details URI</p> <p>The prefix of the URI indicates the type of contact detail, such as 'tel' being a telephone number.</p>   |

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**/ contactDetailsDT**


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## B.5 timeStampDT

| Element Name       | Type           | Cardinality | Remarks  |
|--------------------|----------------|-------------|--|
| <b>timeStampDT</b> | <b>Complex</b> | <b>1..1</b> | In most cases, only some of the time fields will be populated, depending on whether the time being represented is a single specific time, or a time range. |
| value              | dateTime       | 0..1        | See the <i>XML Implementation Technology Specification - Data Types</i> from the CDA <sup>®</sup> Release 2.0 [ <a href="#">HL7-CDA</a> ]                  |
| low                | dateTime       | 0..1        | See the <i>XML Implementation Technology Specification - Data Types</i> from the CDA <sup>®</sup> Release 2.0  |
| high               | dateTime       | 0..1        | See the <i>XML Implementation Technology Specification - Data Types</i> from the CDA <sup>®</sup> Release 2.0  |
| width              | dateTime       | 0..1        | See the <i>XML Implementation Technology Specification - Data Types</i> from the CDA <sup>®</sup> Release 2.0  |
| center             | dateTime       | 0..1        | See the <i>XML Implementation Technology Specification - Data Types</i> from the CDA <sup>®</sup> Release 2.0  |

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**/ timeStampDT**


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## B.6 documentDT

| Element Name                         | Type             | Cardinality | Remarks  |
|--------------------------------------|------------------|-------------|--|
| <b>documentDT</b>                    | <b>None</b>      | <b>1..1</b> |  |
| effectiveDateTime                    | dateTime         | 1..1        | See the CDA <sup>®</sup> R-MIM ClinicalDocument.effectiveTime Section from CDA <sup>®</sup> Release 2.0 [ <a href="#">HL7-CDA</a> ]  |
| documentLink                         | anyURI           | 1..1        | A PCEHR document link format to the document   |
| documentTypeName                     | String           | 1..1        | The Type Name of the Document.   |
| documentTypeCode                     | CodedType        | 1..1        | The Type Code of the Document  |
| documentAuthorPersonName             | nameType<br>Supp | 1..1        | The Name of the Person Author.   |
| documentAuthorPersonIdentifier       | String           | 1..1        | The identifier of the Person Author.   |
| documentAuthorRole                   | String           | 1..1        | The Role of the Author.  |
| documentAuthorOrganizationName       | String           | 1..1        | The Organisation Name.   |
| documentAuthorOrganizationIdentifier | String           | 1..1        | The Organisation's HPI-O.  |
| clinicalSynopsis                     | String           | 0..1        | The Clinical Synopsis from Event Summaries.<br>Note: This field is a String. Each character should be rendered 'as is'. No formatting or HTML characters is permitted in this field. |

/ documentDT

## B.7 nameTypeDT

| Element Name      | Type | Cardinality | Remarks |
|-------------------|------|-------------|---------|
| <b>nameTypeDT</b> |      | <b>1..1</b> |         |

|            |                                      |      |   |
|------------|--------------------------------------|------|---|
| nameTitle  | String                               | 0..* | See the <i>Participation Data Specification</i> [PAR-DS]  |
| familyName | String                               | 1..1 | See the <i>Participation Data Specification</i>   |
| givenName  | String                               | 0..* | See the <i>Participation Data Specification</i>   |
| nameSuffix | String                               | 0..* | See the <i>Participation Data Specification</i>   |
| usage      | Usage ("M", "N", "O", "B", "L", "R") | 0..1 | <ul style="list-style-type: none"> <li>• Maiden Name (Name at birth)</li> <li>• Newborn Name</li> <li>• Other Name (Alias)</li> <li>• Professional or Business Name</li> <li>• Registered Name (Legal Name)</li> <li>• Reporting Name</li> </ul> See the <i>Participation Data Specification</i> for further details. |

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## / nameTypeDT

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## B.8 pathologyReportInformationDT

| Element Name                        | Type   | Cardinality | Remarks   |
|-------------------------------------|--------|-------------|---|
| <b>pathologyReportInformationDT</b> |        | <b>1..1</b> |   |
| CDAeffectiveTime                    | String | 1..1        | See the <i>Pathology Report Structured Content Specification</i> [PATH-SCS] and <i>Pathology Report CDA<sup>®</sup> Implementation Guide</i> [PATH-CDA] |
| dateTimeReportAuthored              | String | 1..1        | See the <i>Pathology Report Structured Content Specification</i> and <i>Pathology Report CDA<sup>®</sup> Implementation Guide</i>                       |
| dateTimeAuthorisation               | String | 1..1        | See the <i>Pathology Report Structured Content Specification</i> and <i>Pathology Report CDA<sup>®</sup> Implementation Guide</i>                       |
| pathologistLocalReportId            | String | 1..1        | See the <i>Pathology Report Structured Content Specification</i> and <i>Pathology Report CDA<sup>®</sup> Implementation Guide</i>                       |
| reportName                          | String | 1..1        | See the <i>Pathology Report Structured Content Specification</i> and <i>Pathology Report CDA<sup>®</sup> Implementation Guide</i>                       |

| Element Name | Type      | Cardinality | Remarks   |
|--------------|-----------|-------------|---|
| reportStatus | CodedType | 1..1        | See the <i>Pathology Report Structured Content Specification</i> and <i>Pathology Report CDA<sup>®</sup> Implementation Guide</i> |
| documentId   | String    | 1..1        | See the <i>Pathology Report Structured Content Specification</i> and <i>Pathology Report CDA<sup>®</sup> Implementation Guide</i> |
| documentLink | anyURI    | 1..1        | See the <i>Pathology Report Structured Content Specification</i> and <i>Pathology Report CDA<sup>®</sup> Implementation Guide</i> |

/  
**pathologyReportInformationDT**

## B.9 diagnosticReportInformationDT

| Element Name                         | Type          | Cardinality | Remarks   |
|--------------------------------------|---------------|-------------|---|
| <b>diagnosticReportInformationDT</b> |               | <b>1..1</b> |   |
| CDAeffectiveTime                     | String        | 1..1        | See the <i>Diagnostic Imaging Report Structured Content Specification</i> [DIAG-SCS] and <i>Diagnostic Imaging Report CDA<sup>®</sup> Implementation Guide</i> [DIAG-CDA] |
| dateTimeReportAuthored               | String        | 1..1        | See the <i>Diagnostic Imaging Structured Content Specification</i> and <i>Diagnostic Imaging Reoprt CDA<sup>®</sup> Implementation Guide</i>                              |
| dateTimeAuthorisation                | String        | 1..1        | See the <i>Diagnostic Imaging Structured Content Specification</i> and <i>Diagnostic Imaging Reoprt CDA<sup>®</sup> Implementation Guide</i>                              |
| accessionNumber                      | String        | 1..1        | See the <i>Diagnostic Imaging Structured Content Specification</i> and <i>Diagnostic Imaging Reoprt CDA<sup>®</sup> Implementation Guide</i>                              |
| reportDescription                    | String        | 1..1        | See the <i>Diagnostic Imaging Structured Content Specification</i> and <i>Diagnostic Imaging Reoprt CDA<sup>®</sup> Implementation Guide</i>                              |
| reportStatus                         | Code<br>dType | 1..1        | See the <i>Diagnostic Imaging Structured Content Specification</i> and <i>Diagnostic Imaging Reoprt CDA<sup>®</sup> Implementation Guide</i>                              |
| documentId                           | String        | 1..1        | See the <i>Diagnostic Imaging Structured Content Specification</i> and <i>Diagnostic Imaging Reoprt CDA<sup>®</sup> Implementation Guide</i>                              |
| documentLink                         | anyU<br>RI    | 1..1        | See the <i>Diagnostic Imaging Structured Content Specification</i> and <i>Diagnostic Imaging Reoprt CDA<sup>®</sup> Implementation Guide</i>                              |

/  
**diagnosticReportInformationDT**

## B.10 requesterInformationDT

| Element Name                   | Type            | Cardinality | Remarks  |
|--------------------------------|-----------------|-------------|--|
| <b>requesterInformationDT</b>  |                 | <b>1..1</b> |  |
| testRequestId                  | String          | 0..1        | The Test Request Identifier.   |
| dateTimeRequested              | String          | 1..1        | The Date and Time that the request was made. (Note: Time may not always be available.) |
| providerOrganisationName       | String          | 0..1        | The Requesting Organisation's Name.  |
| providerOrganisationIdentifier | String          | 0..1        | The Requesting Organisation's HPI-O.   |
| providerName                   | nameType<br>eDT | 1..1        | The Requesting Healthcare Provider's Name.   |
| providerIdentifier             | String          | 0..1        | The Requesting Healthcare Provider's Identifier.                                       |
| <b>/requesterInformationDT</b> |                 |             |  |

## B.11 providerInformationDT

| Element Name                             | Type            | Cardinality | Remarks                                     |
|--|-----------------|-------------|---|
| <b>providerInformationDT</b>             |                 | <b>1..1</b> |   |
| healthcareProviderOrganisationName       | String          | 1..1        | The healthcare provider's organisation name |
| healthcareProviderOrganisationIdentifier | String          | 1..1        | Minimum Length = 16<br>Maximum length = 6   |
| healthcareProviderName                   | nameType<br>eDT | 1..1        | The healthcare provider's name              |
| healthcareProviderIdentifier             | String          | 0..1        | The healthcare provider's unique identifier |
| healthcareProviderRole                   | String          | 0..1        | The healthcare provider's role              |
| <b>/ providerInformationDT</b>           |                 |             |   |

## B.12 individualTypeSupp

| Element Name                | Type             | Cardinality | Remarks  |
|-----------------------------|------------------|-------------|--|
| <b>individualTypeSupp</b>   |                  | <b>1..1</b> |  |
| name                        | nameType<br>Supp | 1..1        | Individual's name  |
| sex                         | String           | 1..1        | See element in Common Types schema,<br>which is referenced in <a href="#">Appendix A</a> . |
| dateOfBirth                 | Date             | 1..1        | The individual's date of birth   |
| <b>/ individualTypeSupp</b> |                  |             |  |

# Appendix C PCEHR formats

## C.1 PCEHR document link format

A document link is denoted by a URI of the following format:

```
pcehr:1.2.36.1.2001.1007.10.[PAI-R]/[doc-id]
```

Where PAI-R is a PCEHR Assigned Identifier for a Repository and doc-id is the identifier of a clinical document stored within the repository. The PAI-R may identify the PCEHR Repository or it may identify a Registered Repository.

The format for [doc-id] is “[root]^[extension]” when an extension is present, otherwise it is “[root]”, as shown by the following mappings:

**Example 1** if doc-id is 013d5c25-1682-45bc-8984-ce0773df9a0d then document id is represented as:

```
<id root="013d5c25-1682-45bc-8984-ce0773df9a0d"/>
```

**Example 2** if doc-id is 2.25.295835386144617648525177275513132113508 then document id is represented as:

```
<id root="2.25.295835386144617648525177275513132113508"/>
```

**Example 3** If doc-id is 2.25.295835386144617648525177275513132113508^1 then document id is represented as:

```
<id root="2.25.295835386144617648525177275513132113508" extension="1"/>
```

## C.2 Date format

The PCEHR returns most dates as a UTC formatted date (and optionally time) as a string.

Below are the possible formats:

- YYYY-MM-DD
- YYYY-MM-DDThh:mm
- YYYY-MM-DDThh:mm:ss
- YYYY-MM-DDThh:mmTZD (With the TZD Fixed to 'Z' representing Zulu time)
- YYYY-MM-DDThh:mm:ssTZD (With the TZD Fixed 'Z' representing Zulu time)
- YYYY-MM-DDThh:mm:ss.sTZD (With the TZD Fixed 'Z' representing Zulu time)

# Acronyms

---

| <b>Acronym</b> | <b>Description</b>   |
|----------------|--|
| CIS            | clinical information system  |
| CSP            | contracted service provider  |
| HI             | Healthcare Identifiers   |
| PCEHR          | personally controlled electronic health record   |
| SCS            | structured content specification   |
| WSDL           | Web Service Definition Language  |
| WSP            | Web Service Profile – Commonly used to refer to the <i>ATS-5820 Web Service Profile</i> [ <a href="#">ATS 5820-2010</a> ].   |
| XDS            | Cross-Enterprise Document Sharing (XDS.b) IHE Integration Profile as specified in [ <a href="#">ITITF-1</a> ], Chapter 10 and extended by material relevant to XDS.b in [ <a href="#">ITITF-2A</a> ], [ <a href="#">ITITF-2B</a> ], [ <a href="#">ITITF-2x</a> ], [ <a href="#">ITITF-3</a> ]. |
| XSD            | XML schema definition  |

---

# Glossary

The core set of terms used within the PCEHR are specified in the *PCEHR Glossary of Terms* [[PCEHR-GLS](#)]

| <b>Term</b>       | <b>Meaning</b>  |
|-------------------|---|
| NASH certificate  | A NASH certificate is a digital certificate that is compliant with the NASH certificate policies.   |
| service           | A service encapsulates the collaboration which occurs between two or more parties to achieve a goal. Each participant in the service may offer multiple Service Interfaces. |
| service interface | A service interface is a logical grouping of operations which be offered by a participant within the context of a service.  |
| service operation | A service operation is a specific function which supports communication between two participants.   |



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