



Australian Government

Australian Digital Health Agency



**Imaging Examination Result  
Detailed Clinical Model Specification  
Version 3.2**

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# Document Information

## Key Information

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## Product Version History

Product version	Date	Release comments
1.0	30 Jun 2007	Initial NEHTA release.
2.0	25 Aug 2011	New version created in accordance with the archetype from <a href="#">NEHTA Clinical Knowledge Manager</a> <sup>1</sup> .
2.1	22 Dec 2011	This version of the specification is published to support the Structured Content Specifications published (at the end of 2011) that use the versions of the DCMs included in this specification. Changes to the DCMs, included in this specification, are primarily to support the Consolidated View in the PCEHR.
3.0	18 Dec 2015	Updated to support Diagnostic Imaging Report Structured Content Specification in the PCEHR R5.
3.1	18 Dec 2015	This version of the specification is published to support the Structured Content Specifications published (in the first half of 2015), primarily Event Summary in the PCEHR R5.
3.2	5 Aug 2016	This version of the specification is published to support the Service Referral structured content specification. It includes rebranding for the Australian Digital Health Agency.

## Related Documents

Name	Version/Release Date
<a href="#">Participation Data Specification</a>	Version 3.2, Issued 20 July 2011

## Included Detailed Clinical Models

This specification contains the following detailed clinical models:

- Imaging Examination Result, version 3.2

<sup>1</sup> <http://dcm.nehta.org.au/ckm>

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# 1 Introduction

## 1.1 Purpose and Scope

This detailed clinical model (DCM) specification forms part of a suite of data specifications that the Australian Digital Health Agency (the Agency) is developing for the Australian health informatics community. The suite comprises specifications for a range of health topics (represented as data groups), which are considered to be the most critical to support the work programme given to the Agency and to realise the benefits derived from Level 4 (semantic) interoperability<sup>1</sup> in the Australian healthcare setting.

We value your questions and comments about this document. Please direct your questions or feedback to [help@digitalhealth.gov.au](mailto:help@digitalhealth.gov.au).

## 1.2 Intended Audience

This document is intended to be read by jurisdictional information and communication technology (ICT) managers, clinicians involved in clinical information system specifications, software architects and developers, and implementers of clinical information systems in various healthcare settings.

This is a technical document; the audience should be familiar with the language of health data specification and also have some familiarity with health information standards and specifications. Definitions and examples are provided to clarify relevant terminology, usage, and intent.

## 1.3 Background

One area of priority for us is the identification of digital health data to be communicated and its structure. We are addressing this through data specifications, which detail the data elements (logically grouped) and their associated value domains.

Data specifications need to be independent of messaging formats. They are concerned with providing an information framework in which to achieve semantic interoperability.

Data specifications have been developed based on priorities identified by jurisdictions and clinicians, incorporating clinical examples of use to enhance utility and adoption. These specifications are intended to:

- suit the Australian model for a shared electronic health record;
- define collections of related information, e.g. event summaries, data groups, data elements;
- be human readable (with information enhanced by the hierarchical structure);
- provide a set of clinical terminologies specific to the requirements of the Australian healthcare system; and
- allow for expansion and extension as electronic systems mature.

While the My Health Record system is referred to in these documents, implementation within the system is not dealt with here.

## 1.4 Terminology

Our National Clinical Terminology Service (NCTS) is defining a national approach to clinical terminology. Consistent and accurate articulation and interpretation of clinical terms is critical to the process of safe exchange.

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<sup>1</sup>Level 4 interoperability is described in [The Value Of Health Care Information Exchange And Interoperability \[WALJ2005a\]](#).

We recommend the SNOMED CT as the preferred clinical terminology for Australia and this has been endorsed by the Australian, state and territory governments. SNOMED CT is considered to be the most comprehensive multilingual health terminology in the world. It is owned, maintained and distributed by the International Health Terminology Standards Development Organisation (IHTSDO).

Our NCTS is the Australian National Release Centre for SNOMED CT and is also responsible for managing, developing and distributing national clinical terminologies, such as SNOMED CT Australian Release (SNOMED CT-AU), the Australian Medicines Terminology (AMT), and related tools and services.

SNOMED CT-AU provides local variations and customisation of terms relevant to the Australian healthcare community. It includes the international resources, along with all Australian-developed terminology for implementation in Australian clinical information technology systems. The AMT provides a consistent approach to the identification and naming of medicines, and supports medicines management and activity across the Australian healthcare domain. The AMT is now included within SNOMED CT-AU, with even closer integration planned for the future.

Reference sets listed as value domains within this document have been developed taking into account data element and data group definitions, as well as how they align with and complement the SNOMED CT concept model.

SNOMED CT-AU has been available for software developers to use in their Australian products since 1 July 2006. It is updated monthly and is freely available under a dual licensing arrangement – namely the SNOMED CT Affiliate License and Australian National Terminology License.

For further information regarding terminology and the development of reference sets, please visit <http://www.healthterminologies.gov.au>. Email [help@digitalhealth.gov.au](mailto:help@digitalhealth.gov.au) with questions or feedback.

# 2 Imaging Examination Result Detailed Clinical Model

This chapter describes version 3.2 of the *Imaging Examination Result* Detailed Clinical Model.

## 2.1 Purpose

To record the findings and interpretation of an imaging examination, or series of examinations.

## 2.2 Use

Use to record all results related to the diagnostic imaging aspects of any imaging examinations performed.

Use to record the imaging examination components (only) of a more complex procedure, including those that may have been undertaken under imaging guidance.

More complex procedures (such as echocardiograms or bone density scans) may be represented using templates or specialised archetypes where additional report content is appropriate.

The content of instances of this DCM will normally be reported back to the requesting clinician as one component within the context of an overall report.

## 2.3 Misuse

Not to be used to record non-imaging examination findings or activities. For example, when imaging is performed as part of a procedure, the information related to the procedure shall be recorded using the Procedure archetype for the operative findings. This archetype will only be used to record the findings from the imaging.

Not to be used to record details about any parallel procedure undertaken. Use a specific procedure-related archetype, for example Procedure archetype.

Not to be used to record details about medications administered during the imaging test. Use a specific medication-related archetype, for example Medication Action archetype.

## 2.4 UML Class Diagrams

The following figures represent the data hierarchy using UML 2.0 class diagrams. The diagrams display data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagrams show the data hierarchy excluding the details of participation. The default multiplicity is 1..1.

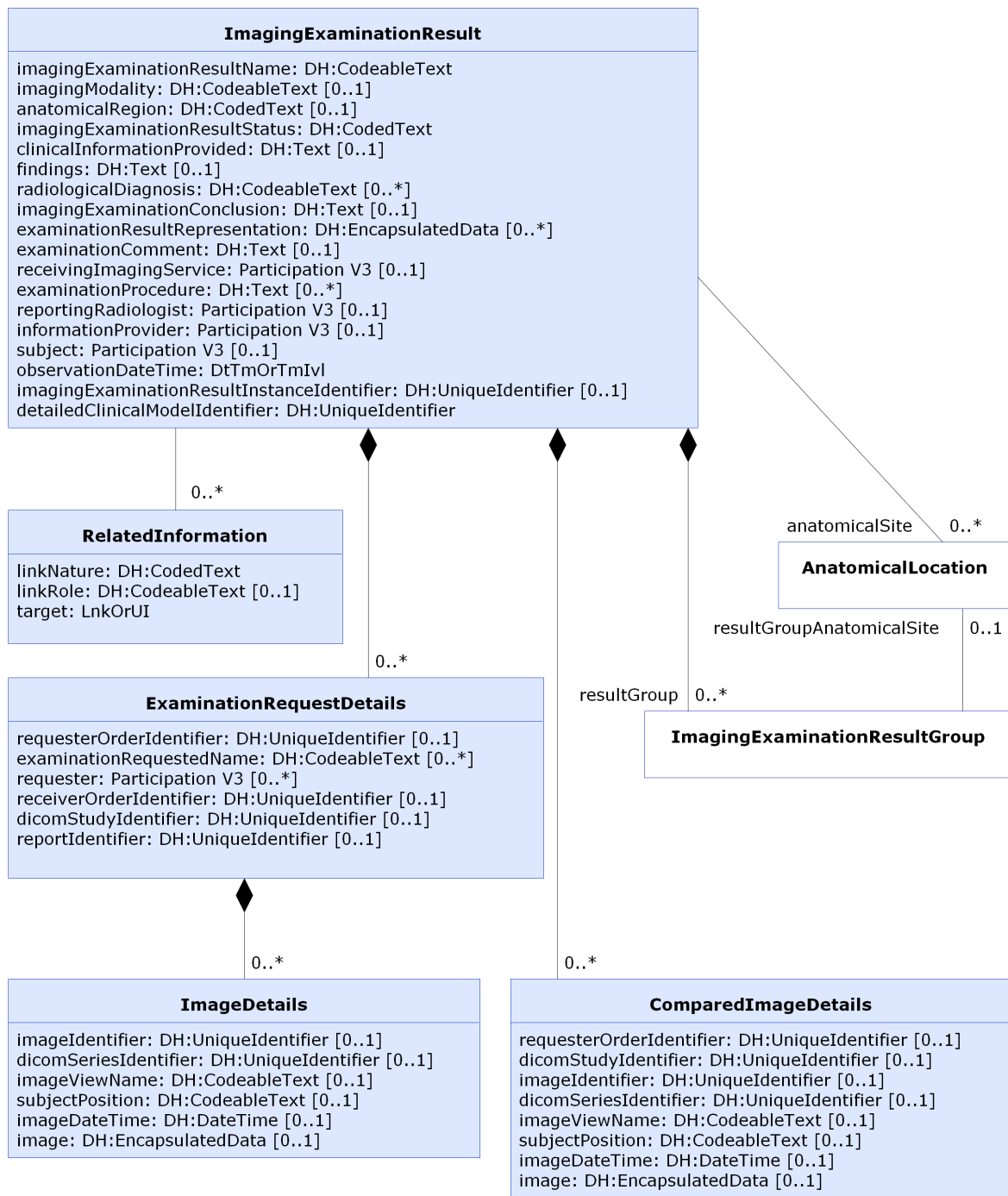


Figure 2.1. Imaging Examination Result part 1

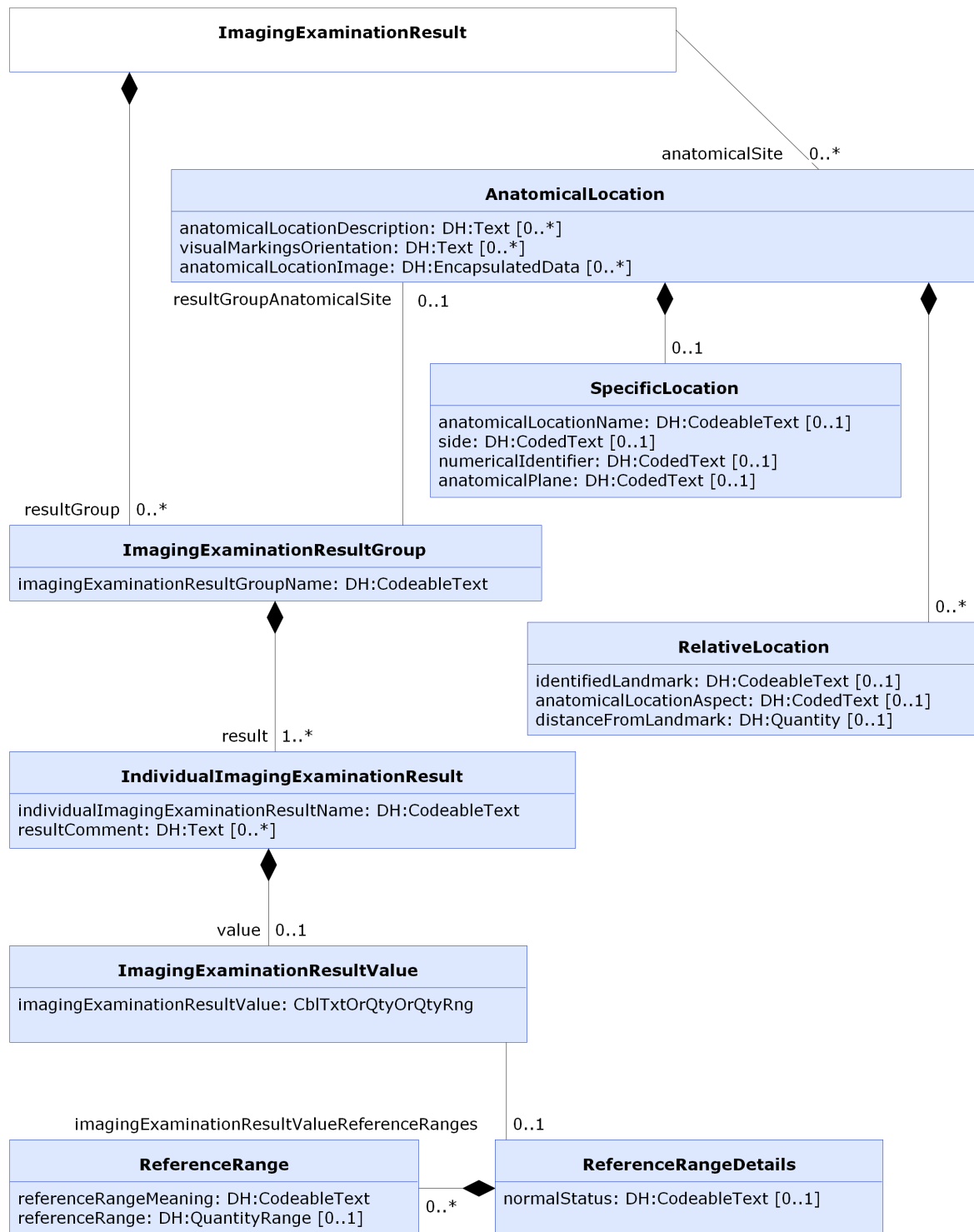


Figure 2.2. Imaging Examination Result part 2

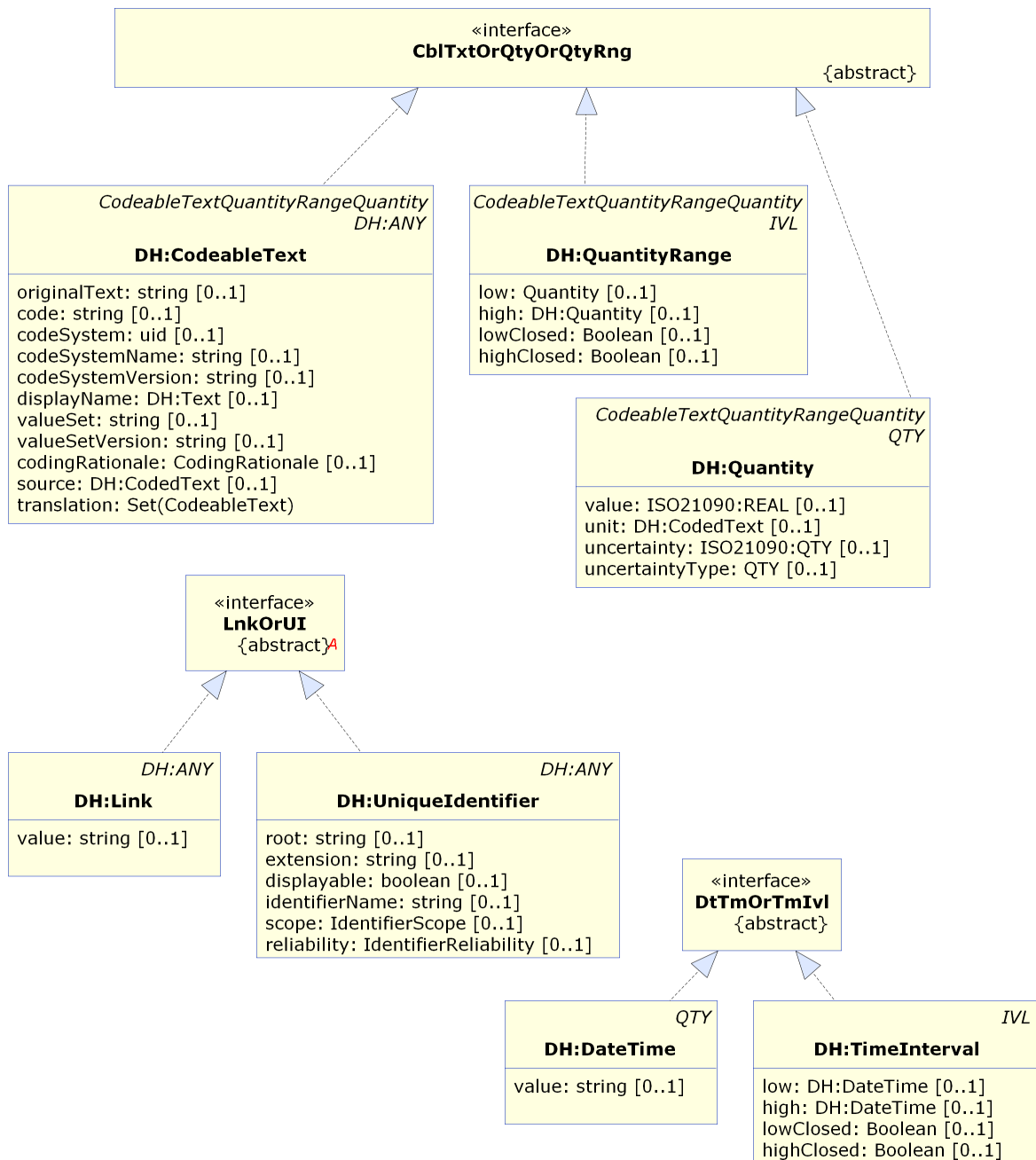


Figure 2.3. Imaging Examination Result part 3

## 2.5 IMAGING EXAMINATION RESULT

### Identification

<b>Label</b>	IMAGING EXAMINATION RESULT
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16145
<b>OID</b>	1.2.36.1.2001.1001.101.102.16145

### Definition












<b>Definition</b>	Findings and interpretation of an imaging examination, or series of examinations.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	



























### Data Hierarchy




























#### Note





















Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

 <b>IMAGING EXAMINATION RESULT</b>			
		Examination Result Name ( <b>Imaging Examination Result Name</b> )	1..1
		<b>Imaging Modality</b>	0..1
		Anatomical Site ( <b>ANATOMICAL LOCATION</b> )	0..*
		<b>SPECIFIC LOCATION</b>	0..1
		Anatomical Location Name	0..1
		Side	0..1
		Numerical Identifier	0..1
		Anatomical Plane	0..1
		<b>RELATIVE LOCATION</b>	0..*
		Identified Landmark	0..1

			Anatomical Location Aspect	0..1
			Distance From Landmark	0..1
			Anatomical Location Description	0..*
			Visual Markings/Orientation	0..*
			Anatomical Location Image	0..*
		Anatomical Region	0..1	
		Imaging Examination Result Status	1..1	
		Clinical Information Provided	0..1	
		Findings	0..1	
		Result Group (IMAGING EXAMINATION RESULT GROUP)	0..*	
		Imaging Examination Result Group Name	1..1	
		Result (INDIVIDUAL IMAGING EXAMINATION RESULT)	1..*	
		Individual Imaging Examination Result Name	1..1	
		Result Value (IMAGING EXAMINATION RESULT VALUE)	0..1	
		  	Result Value (Imaging Examination Result Value)	1..1
			Imaging Examination Result Value Reference Ranges (REFERENCE RANGE DETAILS)	0..1
			Normal Status	0..1
			REFERENCE RANGE	0..*
			Reference Range Meaning	1..1
			Reference Range	0..1
			Result Comment	0..*
		Result Group Anatomical Site (ANATOMICAL LOCATION)	0..1	
		SPECIFIC LOCATION	0..1	
			Anatomical Location Name	0..1



				Side	0..1
				Numerical Identifier	0..1
				Anatomical Plane	0..1
				RELATIVE LOCATION	0..*
				Identified Landmark	0..1
				Anatomical Location Aspect	0..1
				Distance From Landmark	0..1
				Anatomical Location Description	0..*
				Visual Markings/Orientation	0..*
				Anatomical Location Image	0..*
				Radiological Diagnosis	0..*
				Conclusion (Imaging Examination Conclusion)	0..1
				Examination Result Representation	0..*
				Examination Comment	0..1
				RECEIVING IMAGING SERVICE	0..1
				EXAMINATION REQUEST DETAILS	0..*
				Requester Order Identifier	0..1
				Examination Requested Name	0..*
				REQUESTER	0..*
				Receiver Order Identifier	0..1
				DICOM Study Identifier	0..1
				Report Identifier	0..1
				IMAGE DETAILS	0..*
				Image Identifier	0..1
				DICOM Series Identifier	0..1

			Image View Name	0..1
			Subject Position	0..1
			Image DateTime	0..1
			Image	0..1
		Examination Procedure		0..*
		COMPARED IMAGE DETAILS		0..*
			Requester Order Identifier	0..1
			DICOM Study Identifier	0..1
			Image Identifier	0..1
			DICOM Series Identifier	0..1
			Image View Name	0..1
			Subject Position	0..1
			Image DateTime	0..1
			Image	0..1
		REPORTING RADIOLOGIST		0..1
		INFORMATION PROVIDER		0..1
		SUBJECT		0..1
	 	Observation DateTime		1..1
			Imaging Examination Result Instance Identifier	0..1
		RELATED INFORMATION		0..*
			Link Nature	1..1
			Link Role	0..1
		 	Target	1..1
		Detailed Clinical Model Identifier		1..1

## 2.6 Imaging Examination Result Name

### Identification

<b>Label</b>	Examination Result Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16498
<b>OID</b>	1.2.36.1.2001.1001.101.103.16498

### Definition


<b>Definition</b>	Identification of the imaging examination or procedure performed, typically including modality and anatomical location (including laterality).
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>1</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	1) CT chest and abdomen 2) Ultrasound plantar fascia
<b>Exceptional Values</b>	Absent values are <b>PROHIBITED</b> .

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	1..1

<sup>1</sup> <http://www.hl7.org/oid/index.cfm>

## 2.7 Imaging Modality

### Identification

<b>Label</b>	Imaging Modality
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16500
<b>OID</b>	1.2.36.1.2001.1001.101.103.16500

### Definition

<b>Definition</b>	The imaging method used to perform the examination.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Context</b>	For identification or description of the diagnostic imaging modalities that are: <ul style="list-style-type: none"> <li>• available for request; or</li> <li>• used in reporting.</li> </ul>
<b>Context Source</b>	Australian Digital Health Agency
<b>Notes</b>	<p>The imaging method, including the electro-magnetic energy type, applied to produce diagnostic quality images of body structures or internal organs performed during a diagnostic imaging procedure.</p> <p>If the modality is specified by a code in <i>Examination Result Name</i>, then this field is not required.</p>
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<p><i>Not specified.</i></p> <p>In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="http://www.hl7.org/oid/index.cfm">HL7 code set registration procedure</a><sup>2</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.</p> <p>When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.</p>


### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) X-ray</li> <li>2) CT scan</li> <li>3) MRI</li> <li>4) PET scan</li> </ol>
-----------------	---

<sup>2</sup> <http://www.hl7.org/oid/index.cfm>

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..1

## 2.8 ANATOMICAL LOCATION

### Identification


<b>Label</b>	Anatomical Site
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16150
<b>OID</b>	1.2.36.1.2001.1001.101.102.16150

### Definition




<b>Definition</b>	Details about the anatomical locations to which this examination result refers.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Do not include anatomical locations described in <i>IMAGING EXAMINATION RESULT GROUP</i> .

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..*

#### Children

Data Type	Name	Occurrences
	SPECIFIC LOCATION	0..1
	RELATIVE LOCATION	0..*
<b>T</b>	Anatomical Location Description	0..*
<b>T</b>	Visual Markings/Orientation	0..*
	Anatomical Location Image	0..*

## 2.9 Anatomical Region

### Identification

<b>Label</b>	Anatomical Region
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-17009
<b>OID</b>	1.2.36.1.2001.1001.101.103.17009

### Definition


<b>Definition</b>	Region of body (e.g. head, lower limb) that includes the anatomical locations of interest (e.g. jaw, foot).
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Context</b>	This is not clinical information. It is to aggregate for indexing or reporting purposes the information contained in <i>Anatomical Location</i> .
<b>Context Source</b>	Australian Digital Health Agency
<b>Notes</b>	This data element is intended to record the region to which one or more anatomical locations belong.
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Anatomical Region Values</a>

### Usage

<b>Conditions of Use</b>	The value of this data element <b>SHALL</b> subsume all of the anatomical locations identified in the data group <i>Anatomical Location</i> .
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodedText</a> .
<b>Exceptional Values</b>	Absent values are <b>PROHIBITED</b> . Abnormal values are <b>PROHIBITED</b> .

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">IMAGING EXAMINATION RESULT</a>	0..1

## 2.10 Anatomical Region Values

### Identification

<b>Label</b>	Anatomical Region Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-17008
<b>OID</b>	1.2.36.1.2001.1001.101.104.17008

### Definition

<b>Definition</b>	Set of values for anatomical region of body.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Notes</b>	The list of anatomical regions was suggested by the Australian Government Department of Health after consultation with the Royal Australian and New Zealand College of Radiologists.


### Value Domain

<b>Source</b>	Australian Digital Health Agency
<b>Permissible Values</b>	<ol style="list-style-type: none"> <li>1 Head</li> <li>2 Neck</li> <li>3 Chest</li> <li>4 Cardiac</li> <li>5 Breast</li> <li>6 Abdomen</li> <li>7 Pelvis</li> <li>8 Upper limb</li> <li>9 Lower limb</li> <li>10 Cervical spine</li> <li>11 Thoracic spine</li> <li>12 Lumbar spine</li> <li>13 Whole body</li> </ol>



# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	Anatomical Region	1..1

## 2.11 Imaging Examination Result Status

### Identification

<b>Label</b>	Imaging Examination Result Status
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16502
<b>OID</b>	1.2.36.1.2001.1001.101.103.16502

### Definition


<b>Definition</b>	The status of the examination result as a whole.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Imaging Examination Result Status Values</a>

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodedText</a> .
<b>Exceptional Values</b>	Absent values are <b>PROHIBITED</b> . Abnormal values are <b>PROHIBITED</b> .

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">IMAGING EXAMINATION RESULT</a>	1..1

## 2.12 Imaging Examination Result Status Values

### Identification

<b>Label</b>	Imaging Examination Result Status Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16501
<b>OID</b>	1.2.36.1.2001.1001.101.104.16501

### Definition

<b>Definition</b>	Set of values for the imaging examination result status.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Notes</b>	<p>The <i>HL7 Table 0085 - Observation result status codes interpretation</i> is intended to be used at the result or record level, while the <i>HL7 Table 0123 - Result status</i> is intended to be used for the overall report status.</p> <p>Having to source values from two HL7 tables and determine which one to apply in a situation is a potential cause of confusion. Consequently we provide a value set that is applicable across report level and individual result level status values. The single value set has been assessed to be adequate for the My Health Record-based use cases. This approach reduces the chances of confusion and errors in the use of status values.</p>

### Value Domain


<b>Source</b>	NCTIS Imaging Examination Result Status Values	
<b>Permissible Values</b>	1, Registered	No result yet available.
	2, Interim	This is an initial or interim result: data may be missing or verification has not been performed.
	3, Final	The result is complete and verified by the responsible radiologist.
	4, Amended	The result has been modified subsequent to being Final, and is complete and verified by the radiologist.
	5, Cancelled/Aborted	The result is not available because the examination was not started or completed.
	Values sourced by the Agency from <i>HL7 Table 0085 - Observation result status codes interpretation</i> , <i>HL7 Table 0123 - Result status</i> and other sources.	

### Usage

<b>Conditions of Use</b>	In situations where <i>NCTIS Imaging Examination Status Values</i> is not available, <i>HL7 v2.x Table 0123 (Result status)</i> [OID:2.16.840.1.113883.12.123] <b>MAY</b> be used.
<b>Conditions of Use Source</b>	Australian Digital Health Agency

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Imaging Examination Result Status</a>	1..1

## 2.13 Clinical Information Provided

### Identification

<b>Label</b>	Clinical Information Provided
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16397
<b>OID</b>	1.2.36.1.2001.1001.101.103.16397

### Definition


<b>Definition</b>	Description of clinical information available at the time of interpretation of results, or a link to the original clinical information provided in the examination request.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">IMAGING EXAMINATION RESULT</a>	0..1

## 2.14 Findings

### Identification

<b>Label</b>	Findings
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16503
<b>OID</b>	1.2.36.1.2001.1001.101.103.16503

### Definition


<b>Definition</b>	Clinical assessment and opinion based on one or more observations and examinations.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	Results Observational Findings Results/Observation
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Extensive diverticular disease of the sigmoid colon is demonstrated throughout its length.</li> <li>2) The gallbladder shows a diffuse thickening with fatty infiltration of the gallbladder wall.</li> <li>3) The heart size is within normal limits.</li> </ol>
-----------------	---

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..1

## 2.15 IMAGING EXAMINATION RESULT GROUP

### Identification


<b>Label</b>	Result Group
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16504
<b>OID</b>	1.2.36.1.2001.1001.101.102.16504

### Definition




<b>Definition</b>	A group of structured results.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Results may be grouped by anatomical location or by some other name or code to describe what binds all the results together.

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..*

#### Children

Data Type	Name	Occurrences
	Imaging Examination Result Group Name	1..1
	Result (INDIVIDUAL IMAGING EXAMINATION RESULT)	1..*
	Result Group Anatomical Site (ANATOMICAL LOCATION)	0..1

## 2.16 Imaging Examination Result Group Name

### Identification

<b>Label</b>	Imaging Examination Result Group Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16567
<b>OID</b>	1.2.36.1.2001.1001.101.103.16567

### Definition


<b>Definition</b>	The name of a group of structured results.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>3</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Result Group ( <a href="#">IMAGING EXAMINATION RESULT GROUP</a> )	1..1

<sup>3</sup> <http://www.hl7.org/oid/index.cfm>



## 2.17 INDIVIDUAL IMAGING EXAMINATION RESULT

### Identification


<b>Label</b>	Result
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16505
<b>OID</b>	1.2.36.1.2001.1001.101.102.16505

### Definition




<b>Definition</b>	Specific detailed result of an imaging examination, including both the value of the result item and additional information that may be useful for clinical interpretation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Results include whatever specific data items imaging services report as part of the clinical service; it may include measurements. These are often referred to as structured findings.

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Result Group ( <a href="#">IMAGING EXAMINATION RESULT GROUP</a> )	1..*

#### Children

Data Type	Name	Occurrences
	<a href="#">Individual Imaging Examination Result Name</a>	1..1
	Result Value ( <a href="#">IMAGING EXAMINATION RESULT VALUE</a> )	0..1
	<a href="#">Result Comment</a>	0..*

## 2.18 Individual Imaging Examination Result Name

### Identification

<b>Label</b>	Individual Imaging Examination Result Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16568
<b>OID</b>	1.2.36.1.2001.1001.101.103.16568

### Definition


<b>Definition</b>	The name of a specific detailed result.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>4</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Cardiac ejection fraction</li> <li>2) Bone density</li> </ol>
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Result ( <a href="#">INDIVIDUAL IMAGING EXAMINATION RESULT</a> )	1..1

<sup>4</sup> <http://www.hl7.org/oid/index.cfm>

## 2.19 IMAGING EXAMINATION RESULT VALUE

### Identification


<b>Label</b>	Result Value
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-11023
<b>OID</b>	1.2.36.1.2001.1001.101.102.11023

### Definition





<b>Definition</b>	Value of the result, with reference range information.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Result ( <a href="#">INDIVIDUAL IMAGING EXAMINATION RESULT</a> )	0..1

#### Children

Data Type	Name	Occurrences
  	Result Value ( <a href="#">Imaging Examination Result Value</a> )	1..1
	Imaging Examination Result Value Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1

## 2.20 Imaging Examination Result Value

### Identification

<b>Label</b>	Result Value
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11023
<b>OID</b>	1.2.36.1.2001.1001.101.103.11023

### Definition


<b>Definition</b>	The actual value of the result.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Most result values will be numerical measurements, but others may be coded concepts or free text.
<b>Data Type</b>	CodeableText QuantityRange Quantity
<b>Value Domain</b>	<a href="#">Result Value Values</a>

### Usage

<b>Examples</b>	1) Within the lumbar spine (L2-L4), the bone mineral density = 1.121g/cm <sup>2</sup> . This value corresponds to a Z score of 0.5 and a T score of -0.6.
-----------------	---

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Result Value ( <a href="#">IMAGING EXAMINATION RESULT VALUE</a> )	1..1

## 2.21 Result Value Values

### Identification

Label	Result Value Values
Metadata Type	Value Domain
Identifier	VD-11023
OID	1.2.36.1.2001.1001.101.104.11023

### Definition

Definition	The set of values for <i>Imaging Examination Result Value</i> .
Definition Source	Australian Digital Health Agency
Notes	The choice of appropriate code set depends on the information to be coded.

### Value Domain


Source	Australian Digital Health Agency
--------	----------------------------------

### Usage

Conditions of Use	Any code set used <b>SHALL</b> be a registered code set, i.e. registered through the HL7 code set registration procedure with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
Conditions of Use Source	Australian Digital Health Agency

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Result Value ( <a href="#">Imaging Examination Result Value</a> )	1..1

## 2.22 REFERENCE RANGE DETAILS

### Identification


<b>Label</b>	Imaging Examination Result Value Reference Ranges
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16325
<b>OID</b>	1.2.36.1.2001.1001.101.102.16325

### Definition



<b>Definition</b>	One or more reference ranges applicable to the <i>Imaging Examination Result Value</i> .
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>A reference range is particular to the patient and context, e.g. sex, age, and any other factor that affects ranges.</p> <p>May be used to represent normal, therapeutic, dangerous, critical and other such clinical ranges.</p>

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Result Value ( <a href="#">IMAGING EXAMINATION RESULT VALUE</a> )	0..1

#### Children

Data Type	Name	Occurrences
	<a href="#">Normal Status</a>	0..1
	<a href="#">REFERENCE RANGE</a>	0..*

## 2.23 Normal Status

### Identification

<b>Label</b>	Normal Status
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11028
<b>OID</b>	1.2.36.1.2001.1001.101.103.11028

### Definition

<b>Definition</b>	An indication of the degree of diagnostically significant abnormality of the value, based on available clinical information.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>Available clinical information includes the reference range.</p> <p>The term “normal” is <b>not</b> statistical normality, but rather what would normally be considered healthy for the individual concerned. As such, this data element represents the health risk for the individual, which is indicated by the observation or measurement and the nature and criticality of that health risk.</p>
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<p><i>Not specified.</i></p> <p>In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a><sup>5</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.</p> <p>When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.</p>


### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Below normal</li> <li>2) Above normal</li> <li>3) Critically low</li> <li>4) Critically high</li> </ol>
-----------------	---

<sup>5</sup> <http://www.hl7.org/oid/index.cfm>

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	Imaging Examination Result Value Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..1



## 2.24 REFERENCE RANGE

### Identification

Label	REFERENCE RANGE
Metadata Type	Data Group
Identifier	DG-11024
OID	1.2.36.1.2001.1001.101.102.11024

### Definition


Definition	A named range to be associated with any quantity datum.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	The obligations on this data group imply that if this data group occurs only once, the <i>Reference Range</i> data element is optional, otherwise it is essential.

### Usage



Conditions of Use	If this data group occurs only once, its contents <b>SHALL</b> span the observed value.
	If this data group occurs more than once, its contents <b>SHOULD</b> include all of the ranges in a single set.
	If this data group occurs more than once, the <i>Reference Range</i> data element is <b>ESSENTIAL</b> .
	All reference ranges <b>SHALL</b> come from the one set of reference ranges.
Conditions of Use Source	Australian Digital Health Agency

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Imaging Examination Result Value Reference Ranges ( <a href="#">REFERENCE RANGE DETAILS</a> )	0..*

### Children

Data Type	Name	Occurrences
	<a href="#">Reference Range Meaning</a>	1..1
	<a href="#">Reference Range</a>	0..1

## 2.25 Reference Range Meaning

### Identification

<b>Label</b>	Reference Range Meaning
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16574
<b>OID</b>	1.2.36.1.2001.1001.101.103.16574

### Definition


<b>Definition</b>	Term whose value indicates the meaning of this range.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>6</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Normal</li> <li>2) Critical</li> <li>3) Therapeutic</li> </ol>
<b>Exceptional Values</b>	Absent values are <b>PROHIBITED</b> .

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REFERENCE RANGE	1..1

<sup>6</sup> <http://www.hl7.org/oid/index.cfm>

## 2.26 Reference Range

### Identification

<b>Label</b>	Reference Range
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11024
<b>OID</b>	1.2.36.1.2001.1001.101.103.11024

### Definition


<b>Definition</b>	The data range for the associated <i>Reference Range Meaning</i> data element.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	QuantityRange

### Usage

<b>Examples</b>	<ul style="list-style-type: none"> <li>1) 15 - 58 g/L</li> <li>2) &lt; 15 mmol/L</li> <li>3) 2.5 - 3.5 kg</li> <li>4) 23 - 45 cm</li> </ul>
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REFERENCE RANGE	0..1

## 2.27 Result Comment

### Identification

<b>Label</b>	Result Comment
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16466
<b>OID</b>	1.2.36.1.2001.1001.101.103.16466

### Definition


<b>Definition</b>	May include statements about significant, unexpected or unreliable values, or information about the source of the value where this may be relevant to the interpretation of the result.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
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## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Result ( <a href="#">INDIVIDUAL IMAGING EXAMINATION RESULT</a> )	0..*

## 2.28 ANATOMICAL LOCATION

### Identification


<b>Label</b>	Result Group Anatomical Site
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16150
<b>OID</b>	1.2.36.1.2001.1001.101.102.16150

### Definition






<b>Definition</b>	Details about the individual anatomical location to which these result group examination results refer, where finer-grained representation of <i>Anatomical Location</i> is required.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Result Group ( <a href="#">IMAGING EXAMINATION RESULT GROUP</a> )	0..1

### Children

Data Type	Name	Occurrences
	<a href="#">SPECIFIC LOCATION</a>	0..1
	<a href="#">RELATIVE LOCATION</a>	0..*
	<a href="#">Anatomical Location Description</a>	0..*
	<a href="#">Visual Markings/Orientation</a>	0..*
	<a href="#">Anatomical Location Image</a>	0..*

## 2.29 Radiological Diagnosis

### Identification

<b>Label</b>	Radiological Diagnosis
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16507
<b>OID</b>	1.2.36.1.2001.1001.101.103.16507

### Definition


<b>Definition</b>	Single word, phrase or brief description representing the conclusion.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>7</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..*

<sup>7</sup> <http://www.hl7.org/oid/index.cfm>

## 2.30 Imaging Examination Conclusion

### Identification

<b>Label</b>	Conclusion
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16508
<b>OID</b>	1.2.36.1.2001.1001.101.103.16508

### Definition


<b>Definition</b>	Concise and clinically contextualised narrative interpretation of the imaging examination findings.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	1) Lesion in the pancreas is suspicious of pancreatic carcinoma. Pancreatic lesion is likely the cause of the thrombosis and ascites.
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..1

## 2.31 Examination Result Representation

### Identification

<b>Label</b>	Examination Result Representation
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16509
<b>OID</b>	1.2.36.1.2001.1001.101.103.16509

### Definition


<b>Definition</b>	Rich text representation of the entire result as issued by the diagnostic service.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	EncapsulatedData

### Usage

<b>Conditions of Use</b>	Multiple formats are allowed but they <b>SHALL</b> be semantically equivalent.
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">EncapsulatedData</a> .

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..*



## 2.32 Examination Comment

### Identification

<b>Label</b>	Examination Comment
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16510
<b>OID</b>	1.2.36.1.2001.1001.101.103.16510

### Definition


<b>Definition</b>	Additional narrative about the examination that is not captured in other fields.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Recommendations for future examinations.</li> <li>2) A comment on appropriateness of the examination or on quality of images, if separate to findings.</li> <li>3) A note that the film was given to the patient.</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..1

## 2.33 RECEIVING IMAGING SERVICE

### Identification

Label	RECEIVING IMAGING SERVICE
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition

Definition	Imaging service that received the examination request.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	The receiving imaging service may either perform the examination or refer it to another imaging service.


### Usage

Conditions of Use	<p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>. Further constraints on this data group that apply to this reuse of it are listed below.</p> <p>Obligation and occurrence constraints:</p> <ul style="list-style-type: none"> <li>• Participation Period is <b>PROHIBITED</b>.</li> <li>• LOCATION OF PARTICIPATION is <b>PROHIBITED</b>.</li> <li>• Entity Identifier is <b>ESSENTIAL</b>.</li> <li>• ADDRESS is <b>ESSENTIAL</b>.</li> <li>• ELECTRONIC COMMUNICATION DETAIL is <b>ESSENTIAL</b>.</li> <li>• ENTITLEMENT is <b>PROHIBITED</b>.</li> <li>• Qualifications is <b>PROHIBITED</b>.</li> </ul> <p>Other constraints:</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Receiving Imaging Service".</li> <li>• Role <b>SHALL</b> have an implementation-specific null flavour.</li> <li>• The value of one Entity Identifier <b>SHALL</b> be an Australian HPI-O.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as an ORGANISATION.</li> </ul> <p>Terms used in obligation and occurrence constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p>
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Conditions of Use Source Australian Digital Health Agency

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..1

## 2.34 EXAMINATION REQUEST DETAILS

### Identification


<b>Label</b>	EXAMINATION REQUEST DETAILS
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16511
<b>OID</b>	1.2.36.1.2001.1001.101.102.16511

### Definition








<b>Definition</b>	Details concerning a single requested examination.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	Usually there is one examination request for each result; however in some circumstances multiple examination requests may be represented using a single <i>Imaging Examination Result</i> .

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..*

#### Children

Data Type	Name	Occurrences
	Requester Order Identifier	0..1
	Examination Requested Name	0..*
	REQUESTER	0..*
	Receiver Order Identifier	0..1
	DICOM Study Identifier	0..1
	Report Identifier	0..1
	IMAGE DETAILS	0..*

## 2.35 Requester Order Identifier

### Identification

<b>Label</b>	Requester Order Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11006
<b>OID</b>	1.2.36.1.2001.1001.101.103.11006

### Definition


<b>Definition</b>	The local identifier assigned to the order by the order requester.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	Request Order Number Order Number Request Number (Requester)
<b>Notes</b>	Assigning an identifier to a request by the clinical information system enables the progress of the request to be tracked and enables requests to be linked to results. It also provides a reference to assist with enquiries and is equivalent to the HL7 Placer Order Identifier.
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
-----------------	---

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXAMINATION REQUEST DETAILS</a>	0..1

## 2.36 Examination Requested Name

### Identification

<b>Label</b>	Examination Requested Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16512
<b>OID</b>	1.2.36.1.2001.1001.101.103.16512

### Definition


<b>Definition</b>	Identification of the imaging examination which was requested.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>8</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Conditions of Use</b>	This data element <b>SHOULD NOT</b> be used if its value is equal to the value of the <i>Imaging Examination Result Name</i> data element.
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXAMINATION REQUEST DETAILS</a>	0..*

<sup>8</sup> <http://www.hl7.org/oid/index.cfm>

## 2.37 REQUESTER

### Identification

Label	REQUESTER
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	Details pertinent to the clinician or organisation requesting the imaging examination.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Notes	<p>This can be a person or an organisation. Types of requesters include:</p> <ul style="list-style-type: none"> <li>• the clinician; and</li> <li>• a healthcare provider or organisation.</li> </ul>

### Usage

Conditions of Use	<p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>. Further constraints on this data group that apply to this reuse of it are listed below.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Requester”.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or ORGANISATION.</li> </ul> <p>Terms used in obligation and occurrence constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p>
Conditions of Use Source	Australian Digital Health Agency

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXAMINATION REQUEST DETAILS</a>	0..*

## 2.38 Receiver Order Identifier

### Identification

<b>Label</b>	Receiver Order Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-11007
<b>OID</b>	1.2.36.1.2001.1001.101.103.11007

### Definition


<b>Definition</b>	The local identifier assigned to the examination order by the order filler, usually by the radiology information system (RIS).
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	Filler Order Identifier Filler Order Number
<b>Context</b>	Assigning an identifier to a request by the radiology information system enables the progress of the request to be tracked and enables requests to be linked to results. It also provides a reference to assist with enquiries and it is usually equivalent to the HL7 Filler Order Number.
<b>Context Source</b>	Australian Digital Health Agency
<b>Assumptions</b>	The radiology information system has functionality to assign an identifier to each request upon receipt.
<b>Assumptions Source</b>	Australian Digital Health Agency
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
-----------------	---

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXAMINATION REQUEST DETAILS</a>	0..1



## 2.39 DICOM Study Identifier

### Identification

<b>Label</b>	DICOM Study Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16513
<b>OID</b>	1.2.36.1.2001.1001.101.103.16513

### Definition


<b>Definition</b>	Unique identifier of this study allocated by the imaging service.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXAMINATION REQUEST DETAILS</a>	0..1

## 2.40 Report Identifier

### Identification

<b>Label</b>	Report Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16514
<b>OID</b>	1.2.36.1.2001.1001.101.103.16514

### Definition


<b>Definition</b>	The local identifier given to the imaging examination report.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	Diagnostic Imaging Report Identifier
<b>Assumptions</b>	The value of <i>Report Identifier</i> is intended for machine or computer consumption. It does not need to be used or consumed by the human user, e.g. reporting provider or the recipient of a test report.
<b>Assumptions Source</b>	Australian Digital Health Agency
<b>Notes</b>	This is a unique identifier of a diagnostic imaging procedure (or study) report.  A local identifier can be made globally unique by giving it a context. The context may be identified by a globally unique identifier of the system which produces the local identifier.
<b>Data Type</b>	UniquelyIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelyIdentifier</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXAMINATION REQUEST DETAILS</a>	0..1

## 2.41 IMAGE DETAILS

### Identification


<b>Label</b>	IMAGE DETAILS
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16515
<b>OID</b>	1.2.36.1.2001.1001.101.102.16515

### Definition







<b>Definition</b>	Images referenced or provided to assist clinical understanding of the examination.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	If the attached image is in DICOM (Digital Imaging and Communications in Medicine) format, all fields below the image should be populated so that the values are available to software that does not process DICOM images.

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	EXAMINATION REQUEST DETAILS	0..*

#### Children

Data Type	Name	Occurrences
	Image Identifier	0..1
	DICOM Series Identifier	0..1
	Image View Name	0..1
	Subject Position	0..1
	Image DateTime	0..1
	Image	0..1

## 2.42 Image Identifier

### Identification

<b>Label</b>	Image Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16516
<b>OID</b>	1.2.36.1.2001.1001.101.103.16516

### Definition


<b>Definition</b>	Unique identifier of this image allocated by the imaging service.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	Diagnostic Image Identifier
<b>Context</b>	The <i>Image Identifier</i> value uniquely identifies an image object (DICOM or non-DICOM image). This allows software to easily determine if an image is already present, rather than having to compare a large number of (DICOM/image) tags.
<b>Context Source</b>	Australian Digital Health Agency
<b>Assumptions</b>	It is assumed that the diagnostic imaging information system or Picture Archive and Communicating System (PACS) generates a unique identifier for each diagnostic image produced from the test procedure performed.
<b>Assumptions Source</b>	Australian Digital Health Agency
<b>Notes</b>	This is often the DICOM image instance UID.  To ensure global uniqueness, the <i>Image Identifier</i> value may have to be used or associated with the unique "Organisation identifier" value.
<b>Data Type</b>	Uniquentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Uniquentifier</a> .
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">IMAGE DETAILS</a>	0..1

## 2.43 DICOM Series Identifier

### Identification

<b>Label</b>	DICOM Series Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16517
<b>OID</b>	1.2.36.1.2001.1001.101.103.16517

### Definition


<b>Definition</b>	Unique identifier of this series allocated by the imaging service.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">IMAGE DETAILS</a>	0..1

## 2.44 Image View Name

### Identification

<b>Label</b>	Image View Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16198
<b>OID</b>	1.2.36.1.2001.1001.101.103.16198

### Definition


<b>Definition</b>	The name of the imaging view.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="http://www.hl7.org/oid/index.cfm">HL7 code set registration procedure</a> <sup>9</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Lateral</li> <li>2) Antero-posterior (AP)</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGE DETAILS	0..1

<sup>9</sup> <http://www.hl7.org/oid/index.cfm>

## 2.45 Subject Position

### Identification

<b>Label</b>	Subject Position
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16519
<b>OID</b>	1.2.36.1.2001.1001.101.103.16519

### Definition


<b>Definition</b>	Description of the subject's position when the imaging examination was performed.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>10</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
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## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">IMAGE DETAILS</a>	0..1

<sup>10</sup> <http://www.hl7.org/oid/index.cfm>

## 2.46 Image DateTime

### Identification

<b>Label</b>	Image DateTime
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16520
<b>OID</b>	1.2.36.1.2001.1001.101.103.16520

### Definition


<b>Definition</b>	Date, and optionally time, the imaging examination was performed.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	DateTime

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">DateTime</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">IMAGE DETAILS</a>	0..1



## 2.47 Image

### Identification

<b>Label</b>	Image
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16199
<b>OID</b>	1.2.36.1.2001.1001.101.103.16199

### Definition


<b>Definition</b>	An attached or referenced image of a current view.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	EncapsulatedData

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">EncapsulatedData</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">IMAGE DETAILS</a>	0..1

## 2.48 Examination Procedure

### Identification

<b>Label</b>	Examination Procedure
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16633
<b>OID</b>	1.2.36.1.2001.1001.101.105.16633

### Definition


<b>Definition</b>	Additional structured details of imaging examination methodology followed.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	This free text data element is currently a placeholder for further structured data that is as yet undefined. See <a href="#">Appendix A, Known Issues</a> for further information.
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	1) Gastrografin swallow
-----------------	-------------------------

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..*

## 2.49 COMPARED IMAGE DETAILS

### Identification


<b>Label</b>	COMPARED IMAGE DETAILS
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16522
<b>OID</b>	1.2.36.1.2001.1001.101.102.16522

### Definition









<b>Definition</b>	Details of previous images used for comparison.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..*

#### Children

Data Type	Name	Occurrences
	Requester Order Identifier	0..1
	DICOM Study Identifier	0..1
	Image Identifier	0..1
	DICOM Series Identifier	0..1
	Image View Name	0..1
	Subject Position	0..1
	Image DateTime	0..1
	Image	0..1

## 2.50 REPORTING RADIOLOGIST

### Identification

<b>Label</b>	REPORTING RADIOLOGIST
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10296
<b>OID</b>	1.2.36.1.2001.1001.101.102.10296

### Definition

<b>Definition</b>	Radiologist who is responsible for the report.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>The author of the content of the report.</p> <p>The date the imaging examination result is generated is contained in the <i>Participation Period</i> of the <i>Reporting Radiologist</i>.</p>


### Usage

<b>Conditions of Use</b>	<p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>. Further constraints on this data group that apply to this reuse of it are listed below.</p> <p>Obligation and occurrence constraints:</p> <ul style="list-style-type: none"> <li>• LOCATION OF PARTICIPATION is <b>PROHIBITED</b>.</li> <li>• Entity Identifier is <b>ESSENTIAL</b>.</li> <li>• ADDRESS is <b>ESSENTIAL</b>.</li> <li>• ELECTRONIC COMMUNICATION DETAIL is <b>ESSENTIAL</b>.</li> <li>• Relationship to Subject of Care is <b>PROHIBITED</b>.</li> <li>• EMPLOYMENT DETAIL is <b>ESSENTIAL</b>.</li> <li>• EMPLOYER ORGANISATION is <b>ESSENTIAL</b>.</li> <li>• EMPLOYER ORGANISATION.Entity Identifier is <b>ESSENTIAL</b>.</li> <li>• DEMOGRAPHIC DATA is <b>PROHIBITED</b>.</li> </ul> <p>Other constraints:</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Reporting Radiologist".</li> <li>• Role <b>SHOULD</b> have a value chosen from <a href="#">1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, Revision 1 [ABS2009]</a>. However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and is publicly available <b>MAY</b> be used.</li> </ul>
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<b>Conditions of Use Source</b>	<ul style="list-style-type: none"> <li>• The value of one Entity Identifier <b>SHOULD</b> be an Australian HPI-I.</li> <li>• The value of one EMPLOYER ORGANISATION.Entity Identifier <b>SHOULD</b> be an Australian HPI-O.</li> <li>• AUSTRALIAN OR INTERNATIONAL ADDRESS <b>SHALL</b> be instantiated as an AUSTRALIAN ADDRESS.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul> <p>Terms used in obligation and occurrence constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <p>Australian Digital Health Agency</p>
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## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..1

## 2.51 INFORMATION PROVIDER

### Identification

Label	INFORMATION PROVIDER
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	Source of the information.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Scope	Only used when the recorder needs to make it explicit. Otherwise, it is assumed to be the subject of care of the enclosing structured document.
Scope Source	Australian Digital Health Agency
Notes	<p>This does not have to be a person and, in particular, does not have to be a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• an agent of a subject of care, e.g. parent, guardian;</li> <li>• a clinician;</li> <li>• a device or software; and</li> <li>• the subject of the DCM, when not the subject of care of the enclosing structured document.</li> </ul>

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used if the source of the information is the <i>SUBJECT OF CARE</i> of the enclosing structured document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>. Further constraints on this data group that apply to this reuse of it are listed below.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Information Provider".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or as a DEVICE.</li> </ul> <p>Terms used in obligation and occurrence constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p>
Conditions of Use Source	Australian Digital Health Agency

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..1

## 2.52 SUBJECT

### Identification

Label	SUBJECT
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	The individual about whom the imaging test information is being recorded.
Definition Source	Australian Digital Health Agency
Synonymous Names	
Scope	Only used when the recorder needs to make it explicit. Otherwise, it is assumed to be the subject of care of the enclosing structured document.
Scope Source	Australian Digital Health Agency

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used if the subject of the information is the <i>SUBJECT OF CARE</i> of the enclosing structured document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>. Further constraints on this data group that apply to this reuse of it are listed below.</p> <ul style="list-style-type: none"> <li>Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Subject”.</li> <li>PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul> <p>Terms used in obligation and occurrence constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p>
Conditions of Use Source	Australian Digital Health Agency

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..1



## 2.53 Observation DateTime

### Identification

Label	Observation DateTime
Metadata Type	Data Element
Identifier	DE-15561
OID	1.2.36.1.2001.1001.101.103.15561

### Definition


Definition	Date, and optionally time, when an observation is clinically significant to the condition of the subject of the observation.
Definition Source	Australian Digital Health Agency
Synonymous Names	Clinically Significant DateTime Effective DateTime
Context	For an <i>Imaging Examination Result</i> the value is the date, and optionally time, of the imaging examination. For a series of images this is the date, and optionally time, when the last image was taken.
Context Source	Australian Digital Health Agency
Notes	<p>Associated with every observation of a subject are two different times that often, but not always, coincide, and are consequently often conflated: the time that the activity of observing occurred (the time the subject <b>was</b> observed, the <i>measuring time</i>), and the time that the subject was the way it looked (the time the subject <b>as</b> observed, the <i>state time</i>.)</p> <p>Generally, there is no delay between a person being in a state, and an observation of the person being in that state. For example, if a pulse of 72 bpm is recorded at 13:45 on 12 February 2015, one can assume that the heart rate was 72 bpm at that time. (Pulse is a surrogate for heart rate.) In such cases the <i>measuring time</i> and the <i>state time</i> are the same.</p> <p>Sometimes, when there is a delay between the time the person is in a state and the time when they are measured, the delay is important. For example, if a sample is taken from a person and its testing is completed over a period of days, the test results will provide information about the state of the person at the time the sample was taken, not the time the test was completed.</p> <p>The clinically significant time in all clinical observations is the time that the person was as observed, the <i>state time</i>. In observations involving specimens, the time that the specimen was taken is the closest practicable proxy for the <i>state time</i>.</p> <p>The meaning of <i>Observation DateTime</i> is always the time that the person was <b>as</b> observed.</p> <p>This approach follows that of openEHR.</p>
Data Type	DateTime TimeInterval

### Usage

Examples	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">DateTime</a> , and <a href="#">TimeInterval</a> .
----------	---

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	1..1

## 2.54 Imaging Examination Result Instance Identifier

### Identification

<b>Label</b>	Imaging Examination Result Instance Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16715
<b>OID</b>	1.2.36.1.2001.1001.101.103.16715

### Definition


<b>Definition</b>	A globally unique identifier for each instance of an <i>Imaging Examination Result</i> observation.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
<b>Exceptional Values</b>	Absent values are <b>PROHIBITED</b> . Abnormal values are <b>PROHIBITED</b> .

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..1

## 2.55 RELATED INFORMATION

### Identification


<b>Label</b>	RELATED INFORMATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16692
<b>OID</b>	1.2.36.1.2001.1001.101.102.16692

### Definition


<b>Definition</b>	Information held elsewhere that is relevant to this instance of <i>Imaging Examination Result</i> .
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>Items of related information include, but are not limited to, documents, parts of documents, images and web pages.</p> <p>“Elsewhere” includes elsewhere in the same document.</p> <p>1:1 and 1:N relationships between instances of DCMs can be expressed by using one, or more than one, respectively, links. Chains of links can be used to see problem threads or other logical groupings of items.</p> <p>Links are only to be used between instances of DCMs or documents, i.e. between objects representing complete domain concepts. This is because relationships between sub-elements of whole concepts are not necessarily meaningful and may be confusing.</p> <p>When the item of related information is a complete document (including images) or a web page (or part thereof) an appropriate specialisation of the <i>Related Information</i> data group should be used.</p> <p>The document or other data component instance containing the <i>Related Information</i> data group is called the <i>source</i>. The related information is called the <i>target</i>.</p>



## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..*

### Children

Data Type	Name	Occurrences
	Link Nature	1..1

Data Type	Name	Occurrences
	Link Role	0..1
	Target	1..1

## 2.56 Link Nature

### Identification

<b>Label</b>	Link Nature
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16698
<b>OID</b>	1.2.36.1.2001.1001.101.103.16698

### Definition


<b>Definition</b>	The general semantic category of the relationship between this instance of this detailed clinical model (DCM), i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and receiver.
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Link Nature Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) is related to</li> <li>2) is confirmed by or authorised by</li> <li>3) is related to the same problem or health issue</li> </ol>
<b>Exceptional Values</b>	<p>Absent values are <b>PROHIBITED</b>.</p> <p>Abnormal values are <b>PROHIBITED</b>.</p>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 2.57 Link Nature Values

### Identification

<b>Label</b>	Link Nature Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16698
<b>OID</b>	1.2.36.1.2001.1001.101.104.16698
<b>External Identifier</b>	LINK_NATURE

### Definition


<b>Definition</b>	Set of values for the general semantic category of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	ISO 13606-3:2009	
<b>Permissible Values</b>	The permissible values are those specified in Termlist LINK_NATURE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> . The values are listed here with brief descriptions.	
	LINK-A0, is related to	The most general category of Link.
	LINK-B0, is confirmed by or authorised by	The link target contains an instance of a DCM or document that is either a legal or authoritative basis for what is documented in the source DCM instance, or is a declaration of intent to provide (or not provide) requested care.
	LINK-C0, is related to the same problem or health issue	The target instance of a DCM or document describes health or healthcare that concerns the same clinical situation as the source DCM instance.
	LINK-D0, is related to the same care plan, act or episode	The source and the target instances of DCMs or documents both describe parts of the same care plan, act or episode.
	LINK-E0, is a related documentation	The target instance of a DCM or document is an alternative documentary form of the source DCM instance. For example, a re-expression of the same clinical information or supplementary explanatory information.

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	Link Nature	1..1



## 2.58 Link Role

### Identification

<b>Label</b>	Link Role
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16699
<b>OID</b>	1.2.36.1.2001.1001.101.103.16699

### Definition


<b>Definition</b>	The detailed semantic description of the relationship between this instance of this detailed clinical model (DCM), i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source.</p> <p>This attribute may be populated from any suitable terminology and therefore might support human readership better than interoperable automated processing.</p>
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Link Role Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) unspecified link</li> <li>2) suggests</li> <li>3) endorses</li> <li>4) evidence for</li> <li>5) outcome</li> <li>6) is documented by</li> <li>7) excerpts</li> </ol>
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	0..1

## 2.59 Link Role Values

### Identification

<b>Label</b>	Link Role Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16699
<b>OID</b>	1.2.36.1.2001.1001.101.104.16699
<b>External Identifier</b>	LINK_ROLE

### Definition

<b>Definition</b>	Set of values for the detailed semantic description of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Context</b>	These values are used within the context of the value of the <i>Link Nature</i> data element. They provide greater specificity and may be selected more for human readership than for interoperable automated processing.
<b>Context Source</b>	Australian Digital Health Agency

### Value Domain


<b>Source</b>	ISO 13606-3:2009														
<b>Permissible Values</b>	<p>Values <b>SHOULD</b> be from Termlist LINK_ROLE in ISO 13606-3:2009 <a href="#">[ISO2009a]</a>.</p> <p>Values <b>MAY</b> be from any suitable terminology.</p> <p>Some values from Termlist LINK_ROLE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a>, together with brief descriptions, are:</p> <table border="1"> <tr> <td>LINK-A1, unspecified link</td> <td>This can be used to say explicitly “there is no semantic information available for this Link”.</td> </tr> <tr> <td>LINK-B1, endorses</td> <td>The source endorses (agrees with, confirms or verifies) the situation (or interpretation) described in the target.</td> </tr> <tr> <td>LINK-C3, evidence for</td> <td>The source describes evidence for the situation (or interpretation) described in the target.</td> </tr> <tr> <td>LINK-D1, outcome</td> <td>The source describes an outcome of the situation (or interpretation) that the target describes.</td> </tr> <tr> <td>LINK-E1, documented by</td> <td>The source is a less formal description of the situation (or interpretation) documented by the target.</td> </tr> <tr> <td>LINK-E4, excerpts</td> <td>The source is an extract (copy) of part or all of the information contained within the target.</td> </tr> <tr> <td>LINK-E5, derived from</td> <td>The source contains information that has been derived (e.g. calculated) from information in the target.</td> </tr> </table>	LINK-A1, unspecified link	This can be used to say explicitly “there is no semantic information available for this Link”.	LINK-B1, endorses	The source endorses (agrees with, confirms or verifies) the situation (or interpretation) described in the target.	LINK-C3, evidence for	The source describes evidence for the situation (or interpretation) described in the target.	LINK-D1, outcome	The source describes an outcome of the situation (or interpretation) that the target describes.	LINK-E1, documented by	The source is a less formal description of the situation (or interpretation) documented by the target.	LINK-E4, excerpts	The source is an extract (copy) of part or all of the information contained within the target.	LINK-E5, derived from	The source contains information that has been derived (e.g. calculated) from information in the target.
LINK-A1, unspecified link	This can be used to say explicitly “there is no semantic information available for this Link”.														
LINK-B1, endorses	The source endorses (agrees with, confirms or verifies) the situation (or interpretation) described in the target.														
LINK-C3, evidence for	The source describes evidence for the situation (or interpretation) described in the target.														
LINK-D1, outcome	The source describes an outcome of the situation (or interpretation) that the target describes.														
LINK-E1, documented by	The source is a less formal description of the situation (or interpretation) documented by the target.														
LINK-E4, excerpts	The source is an extract (copy) of part or all of the information contained within the target.														
LINK-E5, derived from	The source contains information that has been derived (e.g. calculated) from information in the target.														

## Usage

<b>Conditions of Use</b>	Each of the values in LINK_ROLE from ISO 13606-3:2009 identifies a subcategory of a corresponding value in <i>Link Nature Values</i> . That correspondence is indicated by the first letter after the code string "LINK-". For example, the term LINK-A1 is a subcategory of term LINK-A0. If a term in this list is used for the <i>Link Role</i> data element, the appropriate corresponding value <b>SHALL</b> be used for <i>Link Nature Values</i> .
<b>Conditions of Use Source</b>	ISO 13606-3:2009

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Link Role</a>	1..1

## 2.60 Target

### Identification

<b>Label</b>	Target
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16700
<b>OID</b>	1.2.36.1.2001.1001.101.103.16700

### Definition


<b>Definition</b>	The “linked to” or identified information.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Link UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Link</a> , and <a href="#">UniquelIdentifier</a> .
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## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 2.61 Detailed Clinical Model Identifier

### Identification

<b>Label</b>	Detailed Clinical Model Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16693
<b>OID</b>	1.2.36.1.2001.1001.101.103.16693

### Definition


<b>Definition</b>	A globally unique identifier for this detailed clinical model.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Conditions of Use</b>	The value of this item <b>SHALL</b> be either the default value or a semantically equivalent value from an appropriate code system.
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
<b>Default Value</b>	1.2.36.1.2001.1001.101.102.16145
<b>Exceptional Values</b>	Absent values are <b>PROHIBITED</b> . Abnormal values are <b>PROHIBITED</b> .

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">IMAGING EXAMINATION RESULT</a>	1..1

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# 3 Anatomical Location Data Group

This chapter describes version 1.2 of the *Anatomical Location* Data Group.

## 3.1 Purpose

To record details about anatomical location.

## 3.2 Misuse

Not to be used to specify the occurrence of the unilaterality or bilaterality of a health condition or diagnosis. Examples of such misuse include: bitemporal hemianopsia; left homonymous hemianopsia; right homonymous hemianopsia; bilateral blepharoptosis.

## 3.3 ANATOMICAL LOCATION

### Identification


<b>Label</b>	Anatomical Site
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16150
<b>OID</b>	1.2.36.1.2001.1001.101.102.16150

### Definition






<b>Definition</b>	Details about an anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	IMAGING EXAMINATION RESULT	0..*

#### Children

Data Type	Name	Occurrences
	SPECIFIC LOCATION	0..1
	RELATIVE LOCATION	0..*
	Anatomical Location Description	0..*
	Visual Markings/Orientation	0..*
	Anatomical Location Image	0..*



## 3.4 SPECIFIC LOCATION

### Identification



<b>Label</b>	SPECIFIC LOCATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16151
<b>OID</b>	1.2.36.1.2001.1001.101.102.16151

### Definition





<b>Definition</b>	Specific and identified anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Anatomical Site ( <a href="#">ANATOMICAL LOCATION</a> )	0..1
	Result Group Anatomical Site ( <a href="#">ANATOMICAL LOCATION</a> )	0..1

#### Children

Data Type	Name	Occurrences
	<a href="#">Anatomical Location Name</a>	0..1
	<a href="#">Side</a>	0..1
	<a href="#">Numerical Identifier</a>	0..1
	<a href="#">Anatomical Plane</a>	0..1

## 3.5 Anatomical Location Name

### Identification

<b>Label</b>	Anatomical Location Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16153
<b>OID</b>	1.2.36.1.2001.1001.101.103.16153

### Definition


<b>Definition</b>	The name of the anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Body Structure Foundation Reference Set</a>

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
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## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">SPECIFIC LOCATION</a>	0..1

## 3.6 Body Structure Foundation Reference Set

### Identification

<b>Label</b>	Body Structure Foundation Reference Set
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16152
<b>OID</b>	1.2.36.1.2001.1001.101.104.16152
<b>External Identifier</b>	SNOMED CT-AU Concept Id: 32570061000036105

### Definition


<b>Definition</b>	The set of values for named anatomical locations.
<b>Definition Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	SNOMED CT-AU
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## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
 001011001	<a href="#">Anatomical Location Name</a>	1..1

## 3.7 Side

### Identification

<b>Label</b>	Side
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16336
<b>OID</b>	1.2.36.1.2001.1001.101.103.16336

### Definition


<b>Definition</b>	Laterality of the anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	Laterality
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Laterality Reference Set</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Right</li> <li>2) Left</li> <li>3) Bilateral</li> </ol>
<b>Exceptional Values</b>	<p>Absent values are <b>PROHIBITED</b>.</p> <p>Abnormal values are <b>PROHIBITED</b>.</p>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">SPECIFIC LOCATION</a>	0..1

## 3.8 Laterality Reference Set

### Identification

<b>Label</b>	Laterality Reference Set
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16312
<b>OID</b>	1.2.36.1.2001.1001.101.104.16312
<b>External Identifier</b>	SNOMED CT-AU Concept Id: 32570611000036103

### Definition


<b>Definition</b>	The set of values for identifying the laterality of an anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency

### Value Domain

<b>Source</b>	SNOMED CT-AU
---------------	--------------

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
 001011001	Side	1..1

## 3.9 Numerical Identifier

### Identification

<b>Label</b>	Numerical Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16338
<b>OID</b>	1.2.36.1.2001.1001.101.103.16338

### Definition

<b>Definition</b>	Ordinal value used with anatomical site or part name to identify a specific anatomical site in a collection of enumerable sites, such as vertebrae or ribs.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>1</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.


### Usage

<b>Conditions of Use</b>	This <b>SHALL</b> be an ordinal number between first and eighteenth.
<b>Conditions of Use Source</b>	Australian Digital Health Agency
<b>Examples</b>	<ol style="list-style-type: none"> <li>1) First, as in 'first rib'.</li> <li>2) Second, as in 'second toe'.</li> <li>3) Third, as in 'third lumbar vertebra'.</li> </ol>
<b>Exceptional Values</b>	<p>Absent values are <b>PROHIBITED</b>.</p> <p>Abnormal values are <b>PROHIBITED</b>.</p>

<sup>1</sup> <http://www.hl7.org/oid/index.cfm>

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	SPECIFIC LOCATION	0..1

## 3.10 Anatomical Plane

### Identification

<b>Label</b>	Anatomical Plane
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16340
<b>OID</b>	1.2.36.1.2001.1001.101.103.16340

### Definition


<b>Definition</b>	Line describing the position of a vertical anatomical plane in the body.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>2</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Midline</li> <li>2) Midclavicular</li> <li>3) Midaxillary</li> <li>4) Midscapular</li> </ol>
<b>Exceptional Values</b>	<p>Absent values are <b>PROHIBITED</b>.</p> <p>Abnormal values are <b>PROHIBITED</b>.</p>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	SPECIFIC LOCATION	0..1

<sup>2</sup> <http://www.hl7.org/oid/index.cfm>



## 3.11 RELATIVE LOCATION

### Identification



<b>Label</b>	RELATIVE LOCATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16341
<b>OID</b>	1.2.36.1.2001.1001.101.102.16341

### Definition




<b>Definition</b>	Qualifier(s) to identify a non-specific location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Notes</b>	An example is: 5cm (distance) inferior (aspect) to the tibial tuberosity (landmark).  More than one relative location may be required to provide a cross-reference.

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Anatomical Site ( <a href="#">ANATOMICAL LOCATION</a> )	0..*
	Result Group Anatomical Site ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

#### Children

Data Type	Name	Occurrences
	<a href="#">Identified Landmark</a>	0..1
	<a href="#">Anatomical Location Aspect</a>	0..1
	<a href="#">Distance From Landmark</a>	0..1

## 3.12 Identified Landmark

### Identification

<b>Label</b>	Identified Landmark
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16343
<b>OID</b>	1.2.36.1.2001.1001.101.103.16343

### Definition


<b>Definition</b>	Identified anatomical landmark from which to specify the relative anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>3</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATIVE LOCATION</a>	0..1

<sup>3</sup> <http://www.hl7.org/oid/index.cfm>

## 3.13 Anatomical Location Aspect

### Identification

<b>Label</b>	Anatomical Location Aspect
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16345
<b>OID</b>	1.2.36.1.2001.1001.101.103.16345

### Definition


<b>Definition</b>	Qualifier to identify which direction the anatomical location is in relation to the identified landmark.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>4</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Medial to</li> <li>2) Lateral to</li> <li>3) Anterior to</li> <li>4) Above</li> </ol>
<b>Exceptional Values</b>	<p>Absent values are <b>PROHIBITED</b>.</p> <p>Abnormal values are <b>PROHIBITED</b>.</p>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	RELATIVE LOCATION	0..1

<sup>4</sup> <http://www.hl7.org/oid/index.cfm>

## 3.14 Distance From Landmark

### Identification

<b>Label</b>	Distance From Landmark
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16346
<b>OID</b>	1.2.36.1.2001.1001.101.103.16346

### Definition


<b>Definition</b>	Distance of location from the identified landmark.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Quantity

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Quantity</a> .
-----------------	--

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATIVE LOCATION</a>	0..1

## 3.15 Anatomical Location Description

### Identification

<b>Label</b>	Anatomical Location Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16319
<b>OID</b>	1.2.36.1.2001.1001.101.103.16319

### Definition



<b>Definition</b>	Description of the anatomical location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	--

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Anatomical Site ( <a href="#">ANATOMICAL LOCATION</a> )	0..*
	Result Group Anatomical Site ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

## 3.16 Visual Markings/Orientation

### Identification

<b>Label</b>	Visual Markings/Orientation
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16407
<b>OID</b>	1.2.36.1.2001.1001.101.103.16407

### Definition



<b>Definition</b>	Description of any visual markings used to orient the viewer.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) External reference points</li> <li>2) Special sutures</li> <li>3) Ink markings</li> </ol>
-----------------	---

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Anatomical Site ( <a href="#">ANATOMICAL LOCATION</a> )	0..*
	Result Group Anatomical Site ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

## 3.17 Anatomical Location Image

### Identification

<b>Label</b>	Anatomical Location Image
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16199
<b>OID</b>	1.2.36.1.2001.1001.101.103.16199

### Definition



<b>Definition</b>	An image or images used to identify a location.
<b>Definition Source</b>	Australian Digital Health Agency
<b>Synonymous Names</b>	
<b>Context</b>	This element is intended to be an image, e.g. a photo of the anatomical site such as a wound on the leg.
<b>Context Source</b>	Australian Digital Health Agency
<b>Data Type</b>	EncapsulatedData

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">EncapsulatedData</a> .
-----------------	--

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Anatomical Site ( <a href="#">ANATOMICAL LOCATION</a> )	0..*
	Result Group Anatomical Site ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

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# Appendix A. Known Issues

This appendix lists known issues with this specification at the time of publishing. We are working on solutions to these issues and encourage comments to help us develop these solutions.

Reference	Description
Links to external resources	Certain combinations of web browsers and PDF readers have problems opening URL links (usually found in reference sections) that span more than one line.
Data Hierarchy	Only the parts of these detailed clinical models (DCMs) required for current structured content specifications have been mapped to HL7 CDA. Mapping the remaining parts to CDA may reveal inconsistencies in the data hierarchies, requiring normative change.
Undefined Value Domains	<p>The following data elements lack a defined value domain: <i>Imaging Examination Result Name</i>, <i>Imaging Modality</i>, <i>Imaging Examination Result Group Name</i>, <i>Individual Imaging Examination Result Name</i>, <i>Normal Status</i>, <i>Reference Range Meaning</i>, <i>Radiological Diagnosis</i>, <i>Image View Name</i>, <i>Numerical Identifier</i>, <i>Anatomical Plane</i>, <i>Identified Landmark</i>, <i>Anatomical Location Aspect</i>, <i>Examination Requested Name</i> and <i>Subject Position</i>.</p> <p>We are in the process of developing national code sets for these items. In the meantime, you are free to use your own code sets, providing any code set used <b>SHALL</b> be registered, i.e. registered through the HL7 code set registration procedure with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available. Note that when national standard code sets do become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.</p>
Undefined Data Structures	<p>The following data components lack a defined data structure: <i>Examination Procedure</i>.</p> <p>A free text data element is currently used as an interim solution.</p>
Reference Range	This element is of data type <i>QuantityRange</i> . It is possible that the data type should be widened to allow a wider choice of data types.
Information Provider	We are considering making <i>Information Provider</i> one of a pair of data components: <i>Information Provider</i> for the source of the information, typically the subject of care of the enclosing structured document and <i>Reporter</i> for the author of the information, typically the author of the enclosing structured document. <i>Reporter</i> has not been added to this DCM. More investigation is needed to make a decision.
Image Identifier Data Element	The example and reference in the context of this data element requires review.
Imaging View	Currently there is no way to record imaging view.

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# Appendix B. Specification Guide for Use

## B.1 Overview

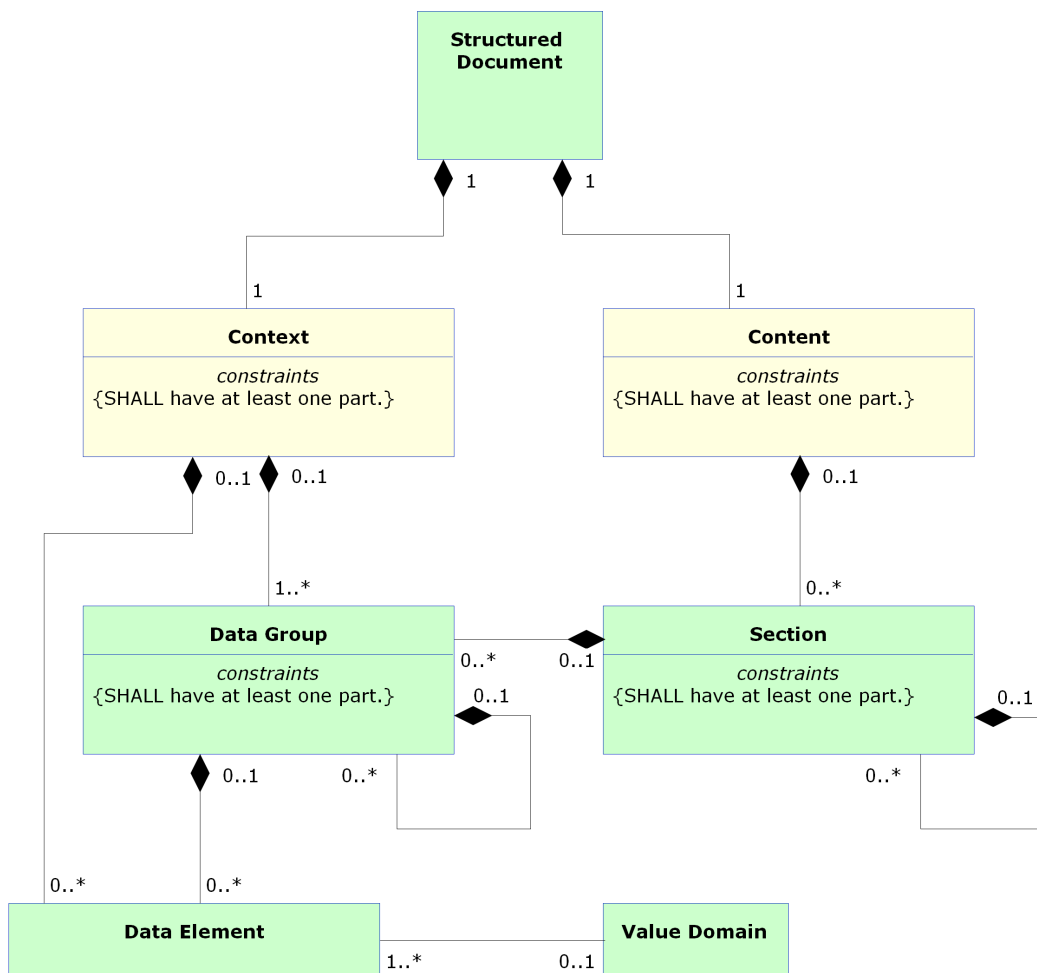
Each detailed clinical model (DCM) and structured content specification (SCS) is designed to be a shared basis for data interpretation. It specifies rigorous business and technical definitions of data that systems may need to share. It is intended to be a logical specification of the data to be persisted within or communicated between systems. It is also the foundation for the compliance, conformance, and declaration process. Our CDA implementation guides are guides to the implementation of HL7 CDA R2 messages based upon these DCMs and SCSs.

Each DCM specifies all of the data components required for any use of a clinical concept; for instance, an entry in a medical record such as a procedure or an imaging test. As such, they are maximal data sets. DCMs are building blocks, which are trimmed to size for use in the construction of SCSs.

Each SCS describes a template of a [Structured Document](#). It specifies the data for a single type of clinical document or information exchange, such as a discharge summary. It is assembled using DCMs that have been constrained to eliminate data components not relevant to the particular context. For example, *Procedure* in a discharge summary uses only some of the data components required by *Procedure* in a specialist report.

## B.2 The Structured Content Specification Metamodel

Our metamodel for structured content specifications (see Figure 1) is used to specify the overall structure of a structured content specification. The structure is a tree, so every item in the tree, other than the root node, has a parent node. For an SCS, the root node is a Structured Document. For a DCM, the root node is a Data Group.



**Figure 1: SCS Metamodel**

There are two main items used to organise information within an SCS as follows:

**Context:** This contains information related to the overall context of the document.

**Content:** This contains information that changes between different SCSs, but is always structured as shown in Figure 1, and consists of the following data components:

- Section
- Data Group
- Data Element
- Value Domain

These data components are described in more detail below.

## Structured Document

A structured document is a collection of health information about a subject of care that is relevant to the ongoing care of that person. They are composed of one or more data groups and data elements that are organised into

sections. Examples of structured documents are *Discharge Summary*, *Shared Health Summary*, and *Advance Care Directive Custodian Record*.

## Context

The purpose of the context is to identify and classify the document and to provide subjects of care and involved healthcare providers with the information related to the relevant healthcare events.

## Content

Content contains a collection of personal information and health information pertinent to a subject of care that is derived from the healthcare event described in the document. The detail is organised into one or more data groups, which are optionally grouped into sections.

## Section

A section is composed of data groups, other sections, or both. It is an organising container that cues the reader about expected content. A section organises information in a manner suitable for the primary purpose for which it is collected and provides a way to navigate through the data components within the document, thereby enabling more efficient querying. It is recommended that the section support safe reuse for secondary purposes, e.g. clinical coding or inclusion in a summarised form in an electronic health record. A section is context-specific to the document in which it resides.

## Data Group

Each data group is used to represent one concept. A data group consists of other data groups, data elements, or both. Some data groups are reused across DCMs.

Every instance of a data group **SHALL** have at least one child data component instantiated.

## Participation

Participation is a special case of a data group that is based on a data group template, which is reused throughout the DCMs and SCSs. Participations are an amalgam of the Actors (see below) operating within a defined healthcare domain and the Roles they are playing within that domain.

A Participant has been defined to align with the concepts of the Agency's [Interoperability Framework \[NEHT2007b\]](#). It equates to an *Entity* that is related to the action described in an SCS as an *Actor*. A Participant can be a human, an organisation, or an IT system.

Our [Participation Data Specification \[NEHT2011v\]](#) defines the full Participation specification.

## Choice

Choice represents a selection, to be made at run-time, of a single member from a set of data groups, where the set is defined at design-time, i.e. one and only one member of the set is chosen for each instance of the choice.

For example, at design-time a healthcare provider provides a service, but it is not until run-time that a decision can be made as to whether the provider is a person or an organisation. Hence, when a healthcare provider *Participant* is instantiated, it will contain either an instance of the *Person* data group or an instance of the *Organisation* data group.

## Data Element

A data element is the smallest named unit of information in the model that can be assigned a value. For example, *DateTime of Observation* and *Observation Note*. Data elements are bound to data types (see [Data Types Legend](#)). Some data elements are reused in different data groups.

While all data elements are constrained by their data type, some data elements are further constrained by value domains (see [Value Domain](#) below).

## Value Domain

A value domain constrains the permissible values for a data element. The values are often a subset of values based on a generic data type.

Value domains are reusable items, therefore the same value domain can be referred to by different data elements in different contexts. Value domains are often specified with reference to a *reference set*. A reference set is a constrained list of SNOMED CT-AU concepts that are appropriate to a particular context or use. Since many of these reference sets have been developed specifically for the context in which they appear, it is recommended that an assessment of fitness for purpose be undertaken before using any of the reference sets in another context.

Value domains constrain either by specifying a lower or upper bound (or both) on the range of permissible values or by specifying a finite set of prescribed values. Such a set of prescribed values can be specified directly within the definition of the data element, or in a separate but associated specification, or else by reference to one or more vocabulary or terminology reference sets. The table below provides some examples of value domains.

**Table 1: Value Domain Examples**

Data Element	Data Type	Example of Value Domain										
Sex	CodedText	<a href="#">Standards Australia AS 4846 (2006) – Health Care Provider Identification [SA2006a]</a> and <a href="#">Standards Australia AS 5017 (2006) – Health Care Client Identification [SA2006b]</a> derive their values from METeOR 287316, which includes values such as: <table border="1" data-bbox="652 1303 1433 1534"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Male</td> </tr> <tr> <td>2</td> <td>Female</td> </tr> <tr> <td>3</td> <td>Intersex or Indeterminate</td> </tr> <tr> <td>9</td> <td>Not Stated/Inadequately Described</td> </tr> </tbody> </table>	Value	Meaning	1	Male	2	Female	3	Intersex or Indeterminate	9	Not Stated/Inadequately Described
Value	Meaning											
1	Male											
2	Female											
3	Intersex or Indeterminate											
9	Not Stated/Inadequately Described											
Diagnosis	CodeableText	A SNOMED CT-AU reference set that references concepts such as “Bronchitis” (Concept ID: 32398004).										
Therapeutic Good Identification	CodeableText	An AMT reference set that references concepts such as “Ibuprofen Blue (Herron) (ibuprofen 200 mg) tablet: film-coated, 1 tablet” (Concept ID: 54363011000036107).										
Individual Pathology Test Result Name	CodeableText	A LOINC subset that references concepts such as “Cholesterol [Moles/volume] in Serum or Plasma” (ID: 14647-2).										






## B.3 Icon Legend

These legends describe all icons that are used in the Agency's DCMs and SCSs.

## Metadata Types Legend

The following table explains each of the icons used to represent the metadata types within DCMs and SCSs.



**Table 2: Metadata Types Legend**

Icon	Metadata Types
	Structured Document
	Section
	Data Group
	Participation
	Choice

## Data Types Legend

The following table explains each of the icons used to represent the data types bound to each data element in the SCSs. These data types are a profile of the **ISO 21090-2011** data types as specified in [Data Types in NEHTA Specifications: A Profile of the ISO 21090 Specification \[NEHT2010c\]](#).

**Table 3: Data Types Legend**

Icon	Data type	Explanation
	Any (ISO 21090: ANY)	Use of this icon indicates that instances of the data element can be of any concrete data type. There are no limitations on the data type of the data element.  The values that can be required will vary considerably depending on the context. This is an abstract data type that is the basis for all data types and <b>SHOULD NOT</b> be used in an actual implementation.
	Boolean (ISO 21090: BL)	A data type, sometimes called the logical data type, having one of the two values: <i>true</i> and <i>false</i> .  Many systems represent true as <i>non-zero</i> (often 1, or -1) and false as <i>zero</i> .  <b>Usage/Examples</b>  • An actual value entered by a user might be “yes” or could be chosen by a mouse click on an icon such as <input checked="" type="checkbox"/> .



CodeableText  
(ISO 21090: CD)

Coded text *with* exceptions; supports various ways of holding text, both free text and coded text.

Often used to support compliance for early adopters of the structured content specifications.

While it is recommended that the values in this data type come from the bound value domain, it allows other value domains to also be used (with or without translations to the bound value domain) or free text alternatives. This is useful when it is not possible to define an entire value domain for a complex concept (e.g. *Diagnosis*) and when there are competing code sets in existence. Note that within exchange specifications or message profiles this data type **MAY** be constrained to mandate compliance with the bound value domain.

**Usage/Examples**

- The Australian Institute of Health and Welfare (AIHW) defines a data element concept *Episode of admitted patient care-separation mode* (the status at separation of a subject of care and the place to which they are released). An early adopter could have a similar concept (coded or otherwise) that maps to this data element but does not strictly comply with the AIHW values.
- A SNOMED CT-AU coded/complex expression that embodies single or multiple concepts. The SNOMED CT-AU concepts behind these CodeableText data elements are specified in the structured content specification value domains.



CodedText  
(ISO 21090: CD)

Coded text *without* exceptions; text with code mappings. Values in this data type **SHALL** come from the bound value domain, with no exceptions.

Often used for reference sets with only a small number of applicable values, e.g. Gender and Document Status.

**Usage/Examples**

[Standards Australia AS 5017 \(2006\) – Health Care Client Identification \[SA2006b\]](#) specifies the following value domain representing a type of address:

Value	Meaning
1	Business
2	Mailing or Postal
3	Temporary Accommodation
4	Residential (permanent)
9	Not Stated/Unknown/Inadequately Described



DateTime  
(ISO 21090: TS)

A single date, optionally with a time of day.






Has the ability to indicate a level of precision, but not whether the date or time is estimated. Cannot represent a time alone.

String representations of known dates **SHALL** conform to the format within the **ISO 21090-2011** standard without the use of extensions, i.e. YYYY[MM[DD[HH[MM[SS[U[U[U[U]]]]]]][+|-ZZzz].

**Usage/Examples**

- Partial dates: 2008, 20081001.
- To indicate 1:20 pm on May the 31st, 1999 for a time zone that is 10 hours ahead of Coordinated Universal Time (UTC): 19990531132000+1000.



	<p>Duration (ISO 21090: PQ.TIME)</p>	<p>The period of time during which something continues. Consists of a value and a unit that represents the time value, e.g. hours, months. Compound durations are not allowed, e.g. 10 days 3 weeks 5 hours.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 3 hours</li> <li>• 6 months</li> <li>• 1 year</li> </ul>		
	<p>EncapsulatedData (ISO 21090: ED)</p>	<p>Data that is primarily intended for human interpretation or for further machine processing outside the scope of this specification. This includes unformatted or formatted written language, multimedia data, or structured information as defined by a different standard (e.g. XML signatures).</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• JPEG images</li> <li>• HTML documents</li> <li>• <a href="#">[RFC1521]</a> MIME types</li> </ul>		
	<p>Integer (ISO 21090: INT)</p>	<p>The mathematical data type comprising the exact integral values.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 1</li> <li>• -50</li> <li>• 125</li> </ul>		
	<p>Link (ISO 21090: TEL)</p>	<p>A general link, reference or pointer to an object, data or application that exists logically or is stored electronically in a computer system.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• URL (Uniform Resource Locator) – the World Wide Web address of a site on the internet, such as the URL for the Google internet search engine – <i>http://www.google.com</i>.</li> <li>• An absolute or relative path within a file or directory structure – e.g. in the Windows operating system, the “link” or absolute path to a particular letter could be <i>C:\Documents and Settings\GuestUser\MyDocuments\letter.doc</i></li> </ul>		
	<p>Quantity (ISO 21090: PQ)</p>	<p>A magnitude value with a unit of measurement.</p>
<p>This is used for recording many real world measurements and observations. As the default unit of measure is 1, even counts of items can be recorded with <i>Quantity</i>.</p>		
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 100 centimetres</li> <li>• 25.5 grams</li> <li>• 3 per month</li> </ul>		

	<p>QuantityRange (ISO 21090: IVL)</p>	<p>A range of <i>Quantity</i> values.</p> <p>It may be identified using a combination of an optional minimum <i>Quantity</i> and an optional maximum <i>Quantity</i> (i.e. lower and upper bounds).</p> <p>This is typically used for defining the valid range of values for a particular measurement or observation. Unbounded quantity ranges can be identified by not including a minimum or a maximum <i>Quantity</i> value.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• -20 to 100 Celsius</li> <li>• 30-50 mg</li> <li>• &gt;10 kg</li> <li>• 2-3 hours</li> </ul>		
	<p>QuantityRatio (ISO 21090: RTO)</p>	<p>A relative magnitude of two <i>Quantity</i> values.</p> <p>Usually recorded as numerator and denominator.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 25 mg / 500 ml</li> <li>• 200 mmol per litre</li> </ul>		
	<p>Real (ISO 21090: REAL)</p>	<p>A computational approximation to the standard mathematical concept of real numbers.</p> <p>These are often called floating-point numbers.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 1.075</li> <li>• -325.1</li> <li>• 3.14157</li> </ul>		
	<p>Text (ISO 21090: ST)</p>	<p>A character string (with optional language) containing any combination of alpha, numeric, or symbols from the Unicode character set. Also referred to as <i>free text</i>.</p> <p><b>Usage/Examples</b></p> <p>“The patient is a 37 year old man who was referred for cardiac evaluation after complaining of occasional palpitations, racing heart beats and occasional dizziness.”</p>
	<p>TimeInterval (ISO 21090:IVL)</p>	<p>An interval in time.</p> <p>It is identified using a combination of an optional start <i>DateTime</i>, an optional end <i>DateTime</i>, and an optional <i>Duration</i>.</p>
<b>Usage/Examples</b>		
<ul style="list-style-type: none"> <li>• 20080101+1000 - 20081231+1000</li> <li>• 200801010130+1000 - 200801011800+1000</li> <li>• 200801010130+1000, duration=16.5 hours</li> </ul>		



## UniquelIdentifier

A unique value used to identify a physical or virtual object or concept.

(ISO 21090: II)

In using this data type, the attributes of the UniquelIdentifier data type **SHOULD** be populated from the identifiers as defined in [AS 4846 \(2006\) – Health Care Provider Identification \[SA2006a\]](#) and [AS 5017 \(2006\) – Health Care Client Identification \[SA2006b\]](#) as follows:

- *root*: a globally unique object identifier that identifies the combination of geographic area, issuer and type. If no such globally unique object identifier exists, it **SHALL** be created.
- *extension*: a unique identifier within the scope of the root that is directly equivalent to the identifier designation element.
- *identifierName*: a human readable name for the namespace represented by the root that is populated with the issuer or identifier type values, or a concatenation of both, as appropriate. The content of this attribute is not intended for machine processing and **SHOULD NOT** be used for that purpose.
- *identifierScope*: the geographic span or coverage that applies to or constrains the identifier. It is directly equivalent to the geographic area element. The content of this attribute is not intended for machine processing and **SHOULD NOT** be used as such.

Also, the following constraints apply on the UniquelIdentifier data type:

- 1) The *root* attribute **SHALL** be used.
- 2) For an Entity Identifier, the *root* attribute **SHALL** be an OID that consists of a node in a hierarchically assigned namespace, formally defined using the ITU-T's ASN.1 standard.
- 3) For an Entity Identifier, the *root* attribute **SHALL NOT** be a UUID.
- 4) The *extension* attribute **SHALL** be used.

### Usage/Examples

Australian health identifiers (e.g. IHI, HPI-I and HPI-O) and patient hospital medical record numbers are examples of identifiers that may be carried by data elements of this data type.

## Keywords Legend

Where used in this document and in DCMs and SCSs, the keywords **SHALL**, **SHOULD**, **MAY**, **SHALL NOT** and **SHOULD NOT** are to be interpreted as described in [Key Words for Use in RFCs to Indicate Requirement Levels \[RFC2119\]](#). Our specifications use the terms **SHALL** in place of “MUST” and **SHALL NOT** in place of “MUST NOT”. The key word definitions in RFC 2119, adjusted to remove the key words not used in the Agency specifications, are presented in the following table.

**Table 4: Keywords Legend**

Keyword	Definition
<b>SHALL</b>	This word means that the statement is an absolute requirement of the specification.
<b>SHOULD</b>	This word means that there may exist valid reasons in particular circumstances to ignore a particular data component, but the full implications must be understood and carefully weighed before choosing a different course.

<b>MAY</b>	This word means that a data component is truly optional. One implementer may choose to include the data component because a particular implementation requires it, or because the implementer determines that it enhances the implementation, while another implementer may omit the same data component. An implementation that does not include a particular option shall be prepared to interoperate with another implementation that does include the option, perhaps with reduced functionality. In the same vein, an implementation that does include a particular option shall be prepared to interoperate with another implementation that does not include the option (except of course, for the feature the option provides).
<b>SHALL NOT</b>	This phrase means that the statement is an absolute prohibition of the specification.
<b>SHOULD NOT</b>	This phrase means that there may exist valid reasons in particular circumstances when the particular behaviour is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behaviour described with this label.

## Obligation Legend

In DCMs and SCSs obligations on a data component specify whether or not it **SHALL** be populated in the logical record architecture of a message. We intend that all data components that are not **PROHIBITED** will be implemented.

Obligations in statements about values specify whether or not certain values are permitted.

Implementation guides specify the rules and formats for implementing and populating data components in specific messaging formats.

The following table defines the obligations.

**Table 5: Obligations Legend**

Keyword	Interpretation
<b>ESSENTIAL</b>	<p>Indicates that the data component is considered a mandatory item of information and <b>SHALL</b> be populated.</p> <p><b>Usage/Examples:</b></p> <p>The Participant data component for a Subject of Care <b>SHALL</b> include an Entity Identifier data component in order to hold the IHI.</p>
<b>OPTIONAL</b>	<p>Indicates that the data component is not considered a mandatory item of information and <b>MAY</b> be populated.</p> <p><b>Usage/Examples:</b></p> <p>Such data components will be implemented, only inclusion and population are optional.</p> <p>This is only needed when a DCM incorrectly asserts that a data component is <b>ESSENTIAL</b>. It will be used with a note stating that the DCM needs revision.</p>
<b>PROHIBITED</b>	<p>On a data component this indicates that the data component is considered a forbidden item of information and <b>SHALL NOT</b> be included.</p> <p>In a statement about values this indicates that the use of the specified values is considered forbidden and they <b>SHALL NOT</b> be used.</p> <p><b>Usage/Examples:</b></p> <p>Within a Participation data group depicting a Subject of Care, the Participation Healthcare Role <b>SHALL NOT</b> be populated.</p>

**CONDITIONAL** Indicates that a data component is considered **ESSENTIAL** only on satisfaction of a given condition. Individual data components specify the obligation of the data component when the condition is not met.

When a condition is met, the data component is considered to be **ESSENTIAL** and **SHALL** be populated.

When a condition is not met, the data component may be considered **PROHIBITED**, or the data component may be considered **OPTIONAL**.

**Usage/Examples:**

Within a Pathology Result Report, the *Specimen Detail* data group is **ESSENTIAL** if the requested test is to be performed on a specimen; otherwise it **SHALL NOT** be included.

Obligations follow the usual scope rules: where **ESSENTIAL** child data components are contained within **OPTIONAL** parent data components, the child data components **SHALL NOT** be included when the parent is not included.

## B.4 Exceptional Values

Occasionally a data element will have an exceptional value: an abnormal value (i.e. the value cannot be described using the expected set of values) or an absent value (i.e. no value is provided). Some abnormal values are only relevant to data elements of certain data types (e.g. positive infinity is relevant to numbers but not Booleans).

Unless otherwise specified, all data elements are permitted to have exceptional values. Constraints on the use of exceptional values are contained in the [Exceptional Values row](#) of the Usage section, except for instances of [Participation](#), when they are in the [Conditions of Use row](#). The most common statements constraining exceptional values are:

- Absent values are **PROHIBITED**.
- Abnormal values are **PROHIBITED**.

The commonly used implementation specifications ISO 21090 and HL7 CDA R2 use *nullFlavor* to manage abnormal and absent values.

The following table provides a classification of *nullFlavor* values as abnormal or absent.

**Table 6: Classification of ISO 21090 nullFlavor values as absent or abnormal**

Level	Code	Term	Abnormal	Absent
1	NI	No information		Absent
2	INV	Invalid	Abnormal	
3	OTH	Other	Abnormal	
4	PINF	Positive infinity	Abnormal	
4	NINF	Negative infinity	Abnormal	
3	UNC	Unencoded	Abnormal	
3	DER	Derived	Abnormal	
2	UNK	Unknown		Absent
3	ASKU	Asked but unknown		Absent
4	NAV	Temporarily unavailable		Absent
3	NASK	Not asked		Absent
3	QS	Sufficient quantity	Abnormal	

Level	Code	Term	Abnormal	Absent
3	TRC	Trace	Abnormal	
2	MSK	Masked		Absent
2	NA	Not applicable		Absent

## B.5 Information Model Specification Parts Legends

This section illustrates the format and parts used to define each section, data group and data element within the Agency’s DCMs and SCSs, and identifies when each part is applicable.

### Chapter Name

Each section, data group, data element, value domain or choice has its own eponymous chapter. The chapter name is used in all data hierarchies.

### Identification Section Legend

The following table illustrates the layout of the Identification section and describes the various parts of the section.

**Table 7: Identification Section Legend**

<b>Label</b>	A suggested display name for the data component.
<b>Metadata Type</b>	The type of the data component, e.g. section, data group or data element.
<b>Identifier</b>	An Agency-assigned internal identifier of the data component.  Note that if one data component is used twice (e.g. <i>Therapeutic Good Identification</i> is used in both <i>Medication Instruction</i> and <i>Medication Action</i> ), both uses of the data component will have the same identifier. A data component identifier identifies a data component, not a <b>use</b> of a data component.
<b>OID</b>	An object identifier equivalent to the data component identifier.
<b>External Identifier</b>	An identifier of the concept represented by the data component that is assigned by an organisation other than the Agency.

### Definition Section Legend

The following table illustrates the layout of the Definition section and describes the various parts of the section.

**Table 8: Definition Section Legend**

<b>Definition</b>	The meaning, description or explanation of the data component.  For data groups used in a particular context, the definition <b>MAY</b> be a refinement of the generic data group definition.
<b>Definition Source</b>	The authoritative source for the Definition statement.
<b>Synonymous Names</b>	A list of any names the data component may also be known as.

<b>Scope</b>	Implementers may prefer to use synonymous names to refer to the data component in specific contexts.
	Situations in which the data component may be used, including the Scope circumstances where specified data are required or recommended.
<b>Scope Source</b>	For example, Medication Instruction (data group) has a scope that includes all prescribable therapeutic goods, both medicines and non-medicines.
	This item is not relevant to data elements or value domains.
<b>Context</b>	The authoritative source for the Scope statement.
	The environment in which the data component is meaningful, i.e. the circumstance, purpose and perspective under which this data component is defined or used.
<b>Assumptions</b>	For example, Street Name has a context of Address.
	This item is applicable only to data elements.
<b>Assumptions Source</b>	Suppositions and notions used in defining the data component.
	The authoritative source for the Assumptions statement.
<b>Notes</b>	Informative text that further describes the data component, or assists in the understanding of how the data component can be used.
<b>Data Type</b>	The data type (or data types) of the data element, e.g. DateTime or Text.
	The valid data types are specified in the <a href="#">Data Types Legend</a> .
<b>Value Domain</b>	This item is applicable only to data elements.
	The name of the <a href="#">Value Domain</a> used to define the range of values of the data element, or a statement describing what values to use in the absence of a defined value domain for the related data element.
	The statement is:
	<p>In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the HL7 code set registration procedure with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.</p> <p>When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.</p>
	This item is applicable only to data elements with data type CodedText or CodeableText.

## Data Hierarchy

The top-level data components (a Structured Document in an SCS or Data Groups in a DCM) contain a data hierarchy. Each row contains information about a single data component. The entries are nested to represent inclusion of one data component in another. Each entry contains at least three occupied cells. The left-most cell contains an icon to indicate the entry's data type. The next cell to the right contains the label of the data component (if the label is different from the name, the name is displayed in brackets after the label). The next cell to the right contains the multiplicity range for the data component.

If a row is shaded grey, this indicates that the data component **SHOULD NOT** be used. This will be because analysis of requirements either did not find reasons to use it or found reasons to not use it.

If the text in a row is in a ~~strike-through~~ font and the multiplicity is 0..0, this indicates that the data component **SHALL NOT** be used. This will be because analysis of requirements found reasons to prohibit the use of it.

In some documents the right-hand side of the data hierarchy contains one or more columns under the heading “Core Requirement”. Each column contains information for one document exchange scenario. A cell that is empty indicates that the data component on that row is **OPTIONAL** to implement. That is, software that creates documents made in conformance with this specification **MAY** exclude the data component, and software that reads documents made in conformance with this specification **MAY** ignore the data component. All other data components **SHALL** be implemented.















## Sample SCS Data Hierarchy



### Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

Items below with a grey background are data components that are included in the relevant detailed clinical model specification, but whose use is discouraged in this particular scenario.

 SPECIALIST LETTER			
CONTEXT			
		SUBJECT OF CARE	1..1
		DOCUMENT AUTHOR	1..1
		ENCOUNTER	1..1
		DateTime Subject of Care Seen ( DateTime Health Event Started)	1..1
		DateTime Health Event Ended	0..0
		HEALTHCARE FACILITY	0..0
		Document Instance Identifier	0..1
		RELATED INFORMATION	0..0
		Document Type	1..1
CONTENT			
		RESPONSE DETAILS	1..1
		Diagnosis (PROBLEM/DIAGNOSIS)	0..*
		 Diagnosis Name (Problem/Diagnosis Identification)	1..1
		 Clinical Description	0..0
	and more		



## Value Domain Section Legend

The following table illustrates the layout of the Value Domain section and describes the various parts of the section.

**Table 9: Value Domain Section Legend**

<b>Source</b>	The name of the terminology or vocabulary from which the value domain's permissible values are sourced, e.g. SNOMED CT-AU, LOINC.
<b>Version Number</b>	Version number of the value domain source.
<b>Permissible Values</b>	A specification of the permissible values in the value domain.  This may be a list of codes. (Each code is typically presented as a triple with code values, text equivalent, and description) for example:  1, Registered    No result yet available.  This may be a conformance statement (e.g. "The permissible values are the members of the following seven AMT reference sets: ...").

## Usage Section Legend

The following table illustrates the layout of the Usage section and describes the various parts of the section.

**Table 10: Usage Section Legend**

<b>Examples</b>	Sample values for the data element, with or without notes about sample values.  Where a data element has an associated value domain, examples representative of that domain are used where possible. Where the value domain is yet to be determined, indicative examples are provided.  Implementation guides may contain specific examples of how data elements may be populated and how they relate to each other.  This item is applicable only to data elements.
<b>Conditions of Use</b>	Prerequisites, provisos or restrictions for use of the data component.
<b>Conditions of Use Source</b>	The authoritative source for the Conditions of Use statement.
<b>Misuse</b>	Incorrect, inappropriate or wrong uses of the data component.
<b>Default Value</b>	A common denomination, or at least a usable denomination, from the Value Domain where available or applicable, typically assigned at the creation of an instance of the data component.
<b>Exceptional Values</b>	A statement of limitations on the use of exceptional values, see <a href="#">Exceptional Values</a> .  Unless otherwise specified, all data elements are permitted to have exceptional values. The most common statements constraining exceptional values are:  <ul style="list-style-type: none"> <li>Abnormal values are <b>PROHIBITED</b>.</li> <li>Absent values are <b>PROHIBITED</b>.</li> </ul> This item is applicable only to data elements.

## Relationships Section Legend

The Relationships section specifies the cardinality between parent and child data components.

The following table illustrates the layout of the Parent relationships table. Note that the occurrences in the relationships described by this table are from the parent to the child data component, i.e. from the data component listed in the table to the data component described by the section.

**Table 11: Parent Legend**

Data Type	Name	Occurrences (child within parent)
The icon illustrating the metadata type or data type.	Parent Data Component Name	The minimum and maximum number of instances of the data component described on this page that <b>SHALL</b> occur.

The following table illustrates the layout of the Children relationships table.

**Table 12: Children Legend**

Data Type	Name	Occurrences
The icon illustrating the metadata type or data type.	Child Data Component Name	The minimum and maximum number of instances of the data component described on this page that <b>SHALL</b> occur.

# Appendix C. Change History

A summary of changes from one document version to the next. Changes to the change history are excluded.

## C.1 Changes Since Version 3.1 - 18 December 2015

### Generic changes

Various changes to rebrand the document from the National E-Health Transition Authority (NEHTA) to the Australian Digital Health Agency (the Agency):

- Definition Source, Scope Source, Context Source, Condition of Use Source and Value Domain Source updated from “NEHTA” to “Australian Digital Health Agency”;
- references to “National E-Health Transition Authority” and “NEHTA” have been replaced with references to the “Australian Digital Health Agency” and “the Agency” respectively; and
- all NEHTA URLs have been updated to redirect to the Agency website.

### Preliminary Pages

Document Information section has been changed to include the latest release details.

### Chapter 1 Introduction

Various editorial changes to presentation and wording, including replacing the expression “PCEHR” with “My Health Record”.

## Chapter 2 Imaging Examination Result Detailed Clinical Model

The version of the DCM used has changed from 3.1 to 3.2.

UML Class Diagram has been split into multiple diagrams.

Guidance on data elements with exceptional values has been added. This affects all uses of the following data elements:

- *IMAGING EXAMINATION RESULT* > *Imaging Examination Result Name*;
- *IMAGING EXAMINATION RESULT* > *Anatomical Region*;
- *IMAGING EXAMINATION RESULT* > *Imaging Examination Result Status*;
- *IMAGING EXAMINATION RESULT* > *IMAGING EXAMINATION RESULT GROUP* > *INDIVIDUAL IMAGING EXAMINATION RESULT* > *IMAGING EXAMINATION RESULT VALUE* > *REFERENCE RANGE DETAILS* > *REFERENCE RANGE* > *Reference Range Meaning*;
- *IMAGING EXAMINATION RESULT* > *Imaging Examination Result Instance Identifier*;
- *IMAGING EXAMINATION RESULT* > *RELATED INFORMATION* > *Link Nature*; and

- *IMAGING EXAMINATION RESULT > Detailed Clinical Model Identifier.*

In 2.12 Imaging Examination Result Status Values, in notes the expression “PCEHR” was replaced with “My Health Record”.

In 2.15 IMAGING EXAMINATION RESULT GROUP, the label for Anatomical Location has been updated in the children table.

In 2.21 Result Value Values, there was an editorial change to the definition and the notes.

In 2.23 Normal Status, there was an editorial change to the definition and notes.

In 2.28 ANATOMICAL LOCATION, the label has been updated.

In 2.33 RECEIVING IMAGING SERVICE, there were editorial changes to the condition of use.

In 2.35 Requester Order Identifier, there was an editorial change to the notes.

In 2.36 Examination Requested Name, there were editorial changes to the condition of use.

In 2.37 REQUESTER, there were editorial changes to the condition of use.

In 2.45 Subject Position, there was an editorial change to the definition.

In 2.46 Image DateTime, there was an editorial change to the example text referencing the appendix.

In 2.50 REPORTING RADIOLOGIST, there were editorial changes to the condition of use.

In 2.51 INFORMATION PROVIDER, this follows current design for specifying Information Provider.

In 2.52 SUBJECT, there were editorial changes to the scope and conditions of use.

In 2.53 Observation DateTime, there was an editorial change to the example text referencing the appendix.

In 2.55 RELATED INFORMATION, there was an editorial change to the definition.

In 2.57 Link Nature Values, there were editorial changes to the permissible values.

In 2.58 Link Role, there was an editorial change to the notes.

In 2.59 Link Role Values, the permissible values have been updated and editorial changes have been made in the condition of use.

## Chapter 3 Anatomical Location Data Group

The version of the DCM used has changed from 1.1 to 1.2.

Guidance on data elements with exceptional values has been added. This affects all uses of the following data elements:

- *ANATOMICAL LOCATION > SPECIFIC LOCATION > Side;*
- *ANATOMICAL LOCATION > SPECIFIC LOCATION > Numerical Identifier;*
- *ANATOMICAL LOCATION > SPECIFIC LOCATION > Anatomical Plane;* and
- *ANATOMICAL LOCATION > RELATIVE LOCATION > Anatomical Location Aspect.*

In 3.2 Misuse, clarifying content was added.

In 3.4 SPECIFIC LOCATION, the label for ANATOMICAL LOCATION has been updated in the parents table.

In 3.7 Side, there was an editorial change to the definition.

In 3.9 Numerical Identifier, there were clarifying changes to the definition.

In 3.11 RELATIVE LOCATION, the label for ANATOMICAL LOCATION has been updated in the parents table. There was an editorial change to the notes.

In 3.13 Anatomical Location Aspect, the examples were simplified.

In 3.15 Anatomical Location Description, the label for ANATOMICAL LOCATION has been updated in the parents table.

In 3.16 Visual Markings/Orientation, the label for ANATOMICAL LOCATION has been updated in the parents table. There also was an editorial change to the definition.

In 3.17 Anatomical Location Image, the label for ANATOMICAL LOCATION has been updated in the parents table.

## **Appendix A. Known Issues**

Various editorial changes.

Three known issues were added.

## **Appendix B. Specification Guide for Use**

Various editorial changes.

Renamed the section B.4 “Abnormal and Absent Values” to “Exceptional Values” and updated explanatory text throughout accordingly.

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