



Alerts

Data Specifications

Version 1.1 - 29/02/2008

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Document information

Change history

Version	Date	Comments
1.0	29.06.2007	Initial public release
1.1	29.02.2008	<ol style="list-style-type: none">1. minor typographical corrections and wording changes in Introduction2. Figure 1 in Introduction updated to show more comprehensive information3. there are no significant alterations that affect the data structure or use of this document

Acknowledgements

NEHTA would like to thank the following organisations and individuals for their contribution to these Data Specifications:

- Standards Australia;
- Royal Australian College of General Practitioners;
- Society of Hospital Pharmacists of Australia;
- Members of the Australian DataTypes Project;
- Australian Institute of Health & Welfare; and
- Ocean Informatics.

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1 Introduction

1.1 Purpose and Scope

The Alert data group specification forms part of a suite of data specifications that NEHTA is developing for the Australian Health Informatics Community. The suite comprises specifications for a range of health topics (represented as “data groups”), which are generally agreed to be of high priority to standardise in order to achieve the benefits brought about by Level 4 (semantic) interoperability in the Australian health care setting.

1.2 Intended Audience

This document is intended to be read by jurisdictional ICT managers, clinicians involved in Clinical Information System specifications, software architects and developers, and implementers of Clinical Information Systems in various health care settings.

It is reasonably technical in nature and expects the audience to be familiar with the language of health data specification and have some familiarity with health information standards and specifications. Definitions and examples are provided to clarify relevant terminology usage and intent.

1.3 Background

There are several e-health priority areas to be addressed by NEHTA specifications. One area of priority is identification of the data to be communicated and its structure. NEHTA is 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 jurisdiction and clinician identified priorities;
- Specifically to suit the Australian model for a shared EHR;
- To define collections of related information, i.e. event summaries, data groups, data elements;
- To allow for expansion and extension as electronic systems mature;
- So they are ‘human readable’, (with information enhanced by the hierarchical structure);
- Incorporating clinical examples of use to enhance utility and adoption; and
- To provide a set of clinical terminologies, specific to the requirements of the Australian healthcare system.

Whilst shared EHR is referred to in these documents the implementation of the shared EHR is not dealt with here.

1.4 NEHTA Clinical Standards Metamodel

The NEHTA Event Summary and Clinical Data Standards metamodel is used to provide a high level overview of a family of structured documents which includes Alert. Within this metamodel, clinical information is organised hierarchically into five levels:

- Event Summary;
- Section;
- Data Group;
- Data Element; and
- Value Domain.

Event summary collection in a Shared EHR System shows the role and structure of an event summary in a shared EHR environment.

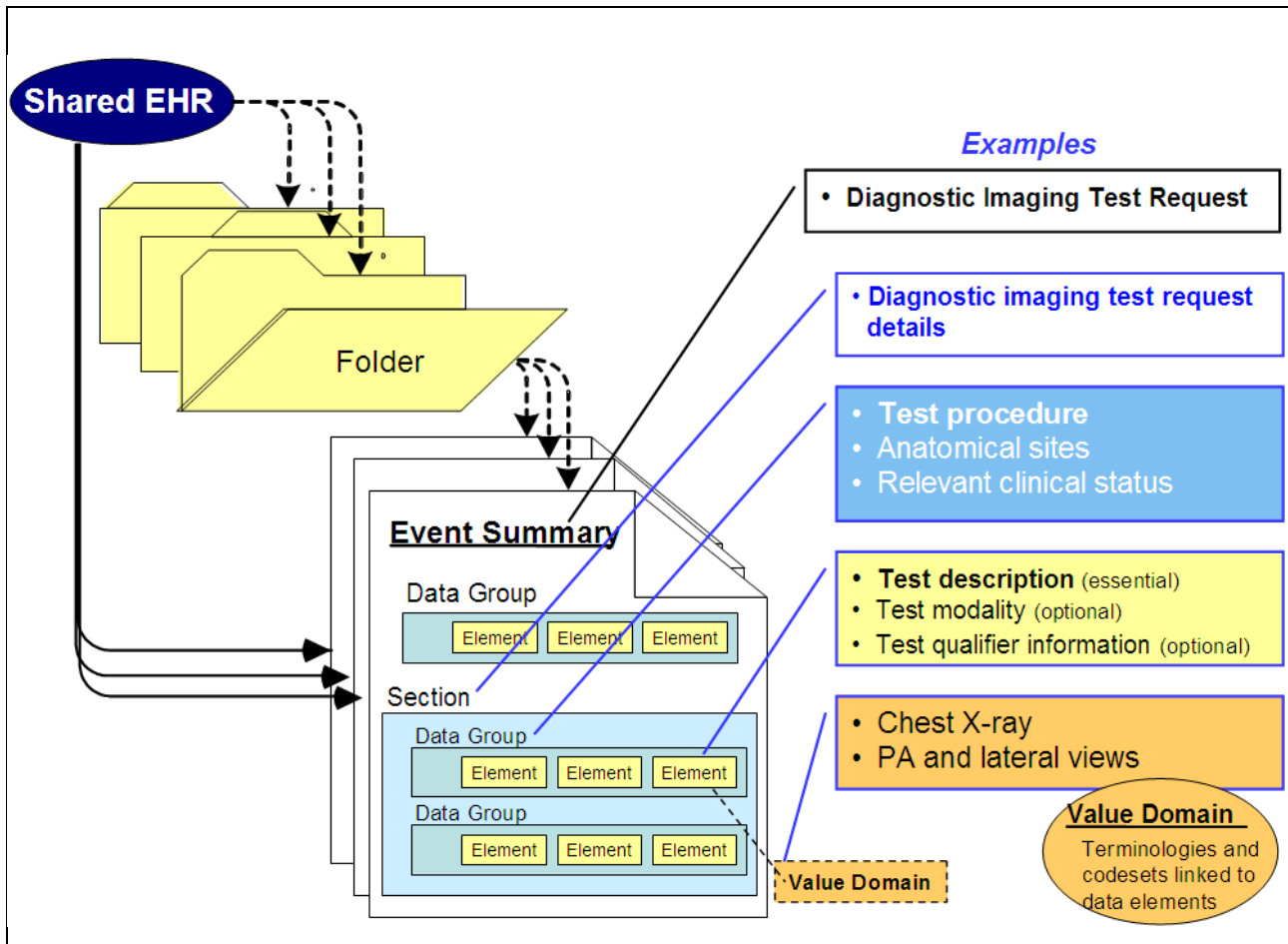


Figure 1 Event summary collection in a Shared EHR System

1.4.1 Event Summary

An event summary is a collection of health information pertinent to a subject of care and is derived from a healthcare event that is relevant to the ongoing care of that individual. The event summary (which is one of a family of care record summaries) is composed of one or more data groups and/or possibly data elements, which are organised into section(s) (see Section below).

Examples of commonly used care record summaries include Referral, Hospital Discharge and Diagnostic Imaging Results.

1.4.2 Section

The contents of an event summary may be organised into one or more sections. A section is an organising container. Its purpose is to organise information in the manner that is suitable for the primary purpose it is collected, and that is useful for healthcare providers. A section also provides a way to navigate through the data items within an event summary, thereby enabling more efficient querying to be made.

1.4.3 Data Group

A data group is a composite data structure (a collection of data elements or smaller data groups) for holding related items of information. Values of all the component data elements are often required to provide unambiguous meaning in a given context. A data group "organises" the data it holds. A data group can only be assigned values through the data elements that are contained within it. Examples of data groups are ADVERSE REACTION, ALERT, and MEDICATION.

1.4.4 Data Element

A data element is the smallest named unit of information in the model that can be assigned a value. Data elements are identified as being either simple or as a component.

A component data element is one that occurs as a member of a composite data structure. A data element that occurs in a segment outside the defined boundaries of a composite data structure is identified as a simple data element. The distinction between simple and component data elements is strictly a matter of context since a data element can be used in either capacity¹.

The permissible values for a data element are constrained by a value domain (see Value Domain).

The same data element can be reused in any number of data groups; e.g. the "DateTime:Start" data element is used in both the ADVERSE REACTION and the ALERT data groups, however a data element may refer to different value domains depending on the context in which it is used.

1.4.5 Value Domain

A value domain constrains the permissible values for a data element. The value domain may specify the type of data value that is valid for a specific data element or be more specific about the coding system the values are drawn from or subset of codes. The values may be a subset of values based on a generic data type. Value domains are reusable components and therefore, the same value domain can be referred to by different data elements in different situations.

Value domains constrain by either specifying a lower and/or upper bound on the range of permissible values or else specify a finite set of prescribed values. Such a set of prescribed values can be specified directly with the definition of the data element, or in a separate but associated specification or else by reference to one or more external vocabulary/terminology sets. Value domain examples (below) are shown below:

Data Element	Data Type	Example of Value Set	Example of Value Domain
Severity	Coded text	Code-set that describes severity of problem, diagnosis, or allergic reaction	"mild", "disabling", "life threatening"
Diagnosis	Coded text	Code set that describe diagnosis, problems, or issues	Valid SNOMED-CT codes drawn from the disorders hierarchy

Table 1: Value domain examples

1.4.6 Classification Scheme

A classification scheme is a terminological system used to classify objects. It is organised in some specified structure, limited in content by a scope, and designed for assigning objects to concepts defined within it. Concepts are usually assigned to an object by linking the terms representing those concepts in the terminological system to the object. This process is called classification, and the terms assigned through classification are used for retrieval. In general, any terminological system is a classification scheme if its intent is for classifying objects².

A classification scheme is used to encompass terminologies and vocabularies used for various uses such as direct clinical use and statistical analysis. Classification schemes are referred to in NEHTA's data specifications where they exist externally and are required in value domains. Often these classifications schemes are underpinned by a set of codes, where each code maps to one or more entries in the classification scheme. Classification schemes are sometimes referred to as codesets.

1. Adapted from the Texas Department of State Health Services, *THCIC Hospital Discharge Data Collection*, THCIC 837\ Technical Specifications (version 13), November 19, 2004.
2. As defined by ISO/IEC 11179.

A value domain may consist of permissible values sourced from zero or more existing, external classification schemes, depending upon the completeness and sufficiency of those classification schemes. Values that are not available in one classification scheme may be obtained from other classification schemes, or depending upon the context and/or local system requirements, a preferred classification scheme may be used from a selection of valid classification schemes for that value domain.

1.5 Terminology

NEHTA is defining a national approach to clinical terminology. An interim licence with the College of American Pathology (CAP) for use of SNOMED CT® within Australia was in place from 2006. The International Health Terminology Standards Development Organisation (IHTSDO) was formed in April 2007 and Australia is one of the foundation member countries. New national SNOMED CT licence arrangements are now in place, managed by NEHTA.

Although SNOMED CT is a comprehensive clinical reference terminology it is recognised that this does not provide a total solution and will need to be supplemented by local extensions. NEHTA is therefore establishing a National Terminology Service to manage Australian extensions to SNOMED CT. For example, the Australian Medicines Terminology will supply terms to populate the Vaccine Brand Name and Route.

2 Specifications




The objective of this specification is to provide detailed information regarding the data elements (and their associative hierarchies and value domains) relevant to the transfer of information within the Alerts domain.

The specification references other data group information, the details of which may be found in other NEHTA Specifications.

A Section can be thought of as an organisational heading. A data group is a collection of related data elements and/or data groups that can be treated as a single block, which might be subject to cardinality and obligation constraints.

2.1 Obligation Legend

In the following specifications, data obligation may be categorised as:

- Essential:**  Indicating that the data item is considered to be a core component of information and required in order for the entry to make sense, e.g. Alert without an Alert description does not make sense;
- Desirable:**  Indicating that the data item is considered worthy of being supplied where the data is known. The data item is deemed important in terms of providing additional or supplementary information in conjunction with essential data items. The data item should be supplied to provide as much context as possible for users to make informed decisions and/or to support various implementation requirements such as efficient indexing, querying and electronic decision support;
- Optional:**  Indicating that the data item may be supplied if required within a context and if the data is available, but it is not necessary for the data entry to make sense. It is recognised that for more complex or specialised healthcare provider settings, some items deemed optional may be viewed essential to them; or
- Conditional:** *a→b* Indicating that the data item is required on the condition of some other data item(s) being supplied, or based on the value(s) of another data item(s).

2.2 NEHTA Data Specifications ICON Legend







Icon	Metadata Types
	Event Summary
	Sections
	Packages
	Data Groups
	Data Elements
	Value Domains

Table 2 Metadata types





Icon	Explanation
	"Choice data group" - a single data group to be chosen from a set of data groups. Data groups of the same hierarchical depth within a hierarchical data group that make up a "choice set" are indicted using this icon.
	Multiple occurrences.*
	Externally sourced specifications.
	Externally sourced Data Group Specifications.

Table 3 Other Icons







Icon	Datatype	Explanation
	Text	Character strings (with optional language). Unless otherwise constrained by an implementation, can be any combination of alpha, numeric or symbols from the Unicode character set. (Sometimes referred to as free text).
	CodedText	Coded text <i>without</i> exceptions; text with code mappings.
	CodeableText	Coded text with exceptions; flexible datatype to support various ways of holding text, both free text, coded text and combinations of free + coded.
	DateTime	Used for specifying a single date and/or time. Has the ability to indicate a level of precision, as well as an indication that the date/time is estimated. String representations of known dates should conform to ISO 8601.
	Duration	The period of time during which something continues. Usage/Examples Example (1) 3 hours. Example (2) 6 months. Example (3) 1 year.
	Number	A whole number or positive integer, and where (according to ISO 11404) - <i>integer</i> is the mathematical datatype comprising the exact integral values Usage/Examples Example (1) 1. Example (2) 50. Example (3) 125.

Table 4 Datatypes






Icon	Datatype	Explanation
	Boolean	A value of true or false. Usage/Example Example (1) An actual value entered by the user might be "yes" or could be chosen by a mouse click on an icon such as <input checked="" type="checkbox"/>
ID	UniqueIdentifier	A general unique identifier to identify a physical or virtual object or concept.
	TimeInterval	Two Date/Time values that define the initial and later points in time. Usage/Examples Example (1) 12:00 – 18:00. Example (2) 1:30 a.m. – 6:00 p.m.
	Quantity	Used for recording many real world measurements and observations. Consists of the property being recorded, the magnitude value, and the units. It may also include precision and number of decimal places. Usage/Examples Example (1) Property = width. Example (2) Units = centimetres. Example (3) Value = 100.
	QuantityRange	Two <i>Quantity</i> values that define the minimum and maximum values, i.e. lower and upper bounds. This is typically used for defining the valid range of values for a particular measurement or observation. Usage/Examples Example (1) Temperature range of -20 to 100 °C Example (2) 30-50 mg of a prescribed drug.
	EncapsulatedData	Used to specify how to supply metadata such as the type of data encapsulated (such as JPEG images, HTML, etc. using RFC 1521 MIME types), whether the data is inline or passed by reference, what character set is used to encode the data, any low resolution "thumbnail" representation included, any compression algorithm or integrity check information included.

Table 4 Datatypes


Icon	Datatype	Explanation
	Link	<p>This is a general link, reference or pointer to an object, data, or application that exists logically or stored electronically in a computer system.</p> <p>Usage/Examples</p> <p>Example (1) 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 – “http://www.google.com”.</p> <p>Example (2) An absolute or relative path within a file/directory structure – e.g. in Windows operating system, the ‘link’ or absolute path to a particular letter (Word document) may be – “C:\Documents and Settings\guestUser\My Documents\Letter.doc”.</p>
A:B	Ratio	<p>The relative magnitudes of two Quantity values (usually expressed as a quotient).</p> <p>Usage/Examples</p> <p>Example (1) 1/3. Example (2) 1:3.</p>
a,b,c...	Sequence	<p>Ordered collection of items.</p> <p>Usage/Example</p> <p>Example (1) A person’s given names, e.g. “David Phillip Andrew” would be held as 3 items grouped in order to form a single entity.</p>
{b,a,c}	Set	<p>Unordered collection of items with values that must be unique within the set.</p>

Table 4 Datatypes

ALERT

Identification

Name	ALERT
Metadata Type	Data Group
Identifier	DG-018 <i>External Identifier</i>
Version	1.0

Definition

Definition	<p>Information pertaining to a subject of care that may:</p> <ul style="list-style-type: none"> • Need special consideration by a healthcare provider before making a decision about his/her actions in order to avert an unfavourable healthcare event; • Need consideration and/or action by a healthcare provider or facility in relation to the care and safety of the subject of care, staff and/or other individuals; or • Notify the healthcare provider of special circumstances that may be relevant in delivering care and/or interacting with the subject of care.
Definition Source	NEHTA
Synonymous Names	Warning.
Scope	The collection of alerts specific to a subject of care. The process of identifying active alerts is critical in the operation of health services and is essential for safety and quality.
Scope Source	NEHTA
Assumptions	Only alerts judged significant by a healthcare provider should be recorded. All alerts will require regular review.

Hierarchical Structure

ALERT	
T ₀₁₀ Alert Type	!
T/T ₀₁₀ Alert Description	!
DateTime Started	o
DateTime Ended	o
T ₀₁₀ Active Status	✓
T ₀₁₀ Alert Certainty	✓
DateTime Reviewed	✓
DateTime Reported	!
T Alert Note	o
Reporter Identification	!
T/T ₀₁₀ Information Provided By	✓

Usage




Conditions of Use	This data group is repeated for every instance of an alert.
Conditions of Use Source	NEHTA
Misuse	Recording adverse reactions.

Data Flow

Sender Type	Either system or human.
Sender Role(s)/Organisation(s)/ Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.
Recipient Type	Either system or human.
Recipient Role(s)/ Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.

Relationships

Children

Data Type	Name	Version	Obligation	Condition	Occurrence
T ₀₁₀	Alert Type	1.0	Essential		Single
T/T ₀₁₀	Alert Description	1.0	Essential		Single
	DateTime Started	1.0	Optional		Single
	DateTime Ended	1.0	Optional		Single
T ₀₁₀	Active Status	1.0	Desirable		Single
T ₀₁₀	Alert Certainty	1.0	Desirable		Single
	DateTime Reviewed	1.0	Desirable		Single
	DateTime Reported	1.0	Essential		Single
T	Alert Note	1.0	Optional		Single
	Reporter Identification	1.0	Essential		Single
T ₀₁₀	Information Provided By	1.0	Desirable		Single

Alert Type

Identification

Name	Alert Type		
Metadata Type	Data Element		
Identifier	DE-084	<i>External Identifier</i>	
Version	1.0		

Definition

Definition	The category of the alert that classifies the alert description.
Definition Source	NEHTA
Synonymous Names	Warning type, Alert class.
Context	
Context Source	
Assumptions	The expectation exists that this field will be derived from terminology structure.
Data Type	CodedText
Value Domain	Alert Type Values

Usage


Conditions of Use	
Conditions of Use Source	
Examples	Example 1) Administrative. Example 2) Clinical or Medical. Example 3) Home environment. Example 4) Infection risk. Example 5) Safety and security. Example 6) Special mental health. Example 7) Special needs and/or preferences.
Misuse	

Data Flow

Sender Type	Either system or human.
Sender Role(s)/Organisation(s)/Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.
Recipient Type	Either system or human.
Recipient Role(s)/Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.

Relationships

Parents

Data Type	Name	Version	Obligation within parent	Condition within parent	Occurrence within parent
	ALERT	1.0	Essential		Single

VD Alert Type Values

Identification

Name	Alert Type Values
Metadata Type	Value Domain
Identifier	VD-034
Version	1.0

Definition

Definition	The category of the alert.
Definition Source	NEHTA

Value Domain

Source	NEHTA
Version Number	
Permissible Values	To be determined.

Usage

Default Value	
Conditions of Use	The value domain options are mutually exclusive and cannot be used in conjunction with each other.
Conditions of Use Source	NEHTA
Misuse	

3 Relationships

Parents

Data Type	Name	Version
T ₀₁₀	Alert Type	1.0

Alert Description

Identification

Name	Alert Description		
Metadata Type	Data Element		
Identifier	DE-085	<i>External Identifier</i>	
Version	1.0		

Definition

Definition	Details of the nature of the alert.		
Definition Source	NEHTA		
Synonymous Names	Warning description		
Context			
Context Source			
Assumptions			
Data Type	CodeableText		
Value Domain	Alert Description Values		

Usage


Conditions of Use			
Conditions of Use Source			
Examples	Example 1) Animals present at subject of care's home. Example 2) Anaesthetic risk. Example 3) Pacemaker present. Example 4) Subject of care is a risk to others. Example 5) Subject of care speaks no English.		
Misuse			

Data Flow

Sender Type	Either system or human.		
Sender Role(s)/Organisation(s)/Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.		
Recipient Type	Either system or human.		
Recipient Role(s)/Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.		

Relationships

Parents

Data Type	Name	Version	Obligation within parent	Condition within parent	Occurrence within parent
	ALERT	1.0	Essential		Single

VD Alert Description Values

Identification

Name	Alert Description Values
Metadata Type	Value Domain
Identifier	VD-035
Version	1.0

Definition

Definition	Values for describing the nature of the alert.
Definition Source	NEHTA

Value Domain

Source	NEHTA
Version Number	
Permissible Values	To be determined.

Usage

Default Value	
Conditions of Use	The value domain options are mutually exclusive and cannot be used in conjunction with each other.
Conditions of Use Source	NEHTA
Misuse	

Relationships

Parents

Data Type	Name	Version
T/T ₀₁₀	Alert Description	1.0

DateTime Started

Identification

Name	DateTime Started		
Metadata Type	Data Element		
Identifier	DE-15521	<i>External Identifier</i>	
Version	1.0		

Definition

Definition	The date or date and time that the specific Alert was initiated. <i>The date and time could be automatically generated the system, or could be entered or overridden by a user if required.</i>
Definition Source	NEHTA
Synonymous Names	
Context	
Context Source	
Assumptions	
Data Type	DateTime
Value Domain	

Usage


Conditions of Use	Where possible, exact dates should be used. Incomplete dates should generally only be used for retrospective data collection.
Conditions of Use Source	NEHTA
Examples	Example 1) 31/03/2004. Example 2) 03/2004. Example 3) 2004. Example 4) 31/03/2004 13:10.
Misuse	Entering approximate dates when an exact date is available.

Data Flow

Sender Type	Either system or human.
Sender Role(s)/Organisation(s)/Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.
Recipient Type	Either system or human.
Recipient Role(s)/Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.

Relationships

Parents

Data Type	Name	Version	Obligation within parent	Condition within parent	Occurrence within parent
	ALERT	1.0	Optional		Single

DateTime Ended

Identification

Name	DateTime Ended		
Metadata Type	Data Element		
Identifier	DE-15522	<i>External Identifier</i>	
Version	1.0		

Definition

Definition	The date or date and time that the specific Alert was no longer valid. <i>The date and time could be automatically generated the system, or could be entered or overridden by a user if required.</i>		
Definition Source	NEHTA		
Synonymous Names			
Context			
Context Source			
Assumptions			
Data Type	DateTime		
Value Domain			

Usage

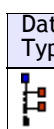
Conditions of Use	Where possible, exact dates should be used. Incomplete dates should generally only be used for retrospective data collection.
Conditions of Use Source	NEHTA
Examples	Example 1) 31/03/2004. Example 2) 03/2004. Example 3) 2004. Example 4) 31/03/2004 13:10.
Misuse	Entering approximate dates when an exact date is available.

Data Flow

Sender Type	Either system or human.
Sender Role(s)/Organisation(s)/Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.
Recipient Type	Either system or human.
Recipient Role(s)/Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.

Relationships

Parents

Data Type	Name	Version	Obligation within parent	Condition within parent	Occurrence within parent
	ALERT	1.0	Optional		Single

Active Status

Identification

Name	Active Status
Metadata Type	Data Element
Identifier	DE-317 <i>External Identifier</i>
Version	1.0

Definition

Definition	An indication of whether the alert is considered an active or inactive issue, as determined by a healthcare provider.
Definition Source	NEHTA
Synonymous Names	Warning status.
Context	
Context Source	
Assumptions	
Data Type	CodedText
Value Domain	Active Status Values

Usage


Conditions of Use	
Conditions of Use Source	
Examples	Example 1) Active. Example 2) Inactive. Example 3) Resolved.
Misuse	

Data Flow

Sender Type	Either system or human.
Sender Role(s)/Organisation(s)/Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.
Recipient Type	Either system or human.
Recipient Role(s)/Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.

Relationships

Parents

Data Type	Name	Version	Obligation within parent	Condition within parent	Occurrence within parent
	ALERT	1.0	Desirable		Single

VD Active Status Values

Identification

Name	Active Status Values
Metadata Type	Value Domain
Identifier	VD-107
Version	1.0

Definition

Definition	An indication of whether the alert is considered an active or inactive issue.
Definition Source	NEHTA

Value Domain

Source	NEHTA
Version Number	
Permissible Values	Active; Inactive; and Resolved.

Usage

Default Value	
Conditions of Use	The value domain options are mutually exclusive and cannot be used in conjunction with each other.
Conditions of Use Source	NEHTA
Misuse	

Relationships

Parents

Data Type	Name	Version
T ₀₁₀	Active Status	1.0

Alert Certainty

Identification

Name	Alert Certainty		
Metadata Type	Data Element		
Identifier	DE-589	<i>External Identifier</i>	
Version	1.0		

Definition

Definition	Used to indicate the degree of confidence concerning the existence of the alert.
Definition Source	NEHTA
Synonymous Names	
Context	This defines the level of certainty concerning the alert so that the healthcare provider can be informed regarding how the alert should be interpreted when interacting with a subject of care.
Context Source	
Assumptions	
Data Type	CodedText
Value Domain	Alert Certainty Values

Usage


Conditions of Use	
Conditions of Use Source	
Examples	Example 1) Confirmed. Example 2) Suspected. Example 3) Discounted.
Misuse	

Data Flow

Sender Type	Either system or human.
Sender Role(s)/Organisation(s)/Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.
Recipient Type	Either system or human.
Recipient Role(s)/Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.

Relationships

Parents

Data Type	Name	Version	Obligation within parent	Condition within parent	Occurrence within parent
	ALERT	1.0	Desirable		Single

VD Alert Certainty Values

Identification

Name	Alert Certainty Values
Metadata Type	Value Domain
Identifier	VD-106
Version	1.0

Definition

Definition	Set of values that can be used to indicate the degree of confidence concerning the existence of an alert.
Definition Source	NEHTA

Value Domain

Source	NEHTA
Version Number	
Permissible Values	Confirmed; Discounted; and Suspected.

Usage

Default Value	
Conditions of Use	The value domain options are mutually exclusive and cannot be used in conjunction with each other.
Conditions of Use Source	NEHTA
Misuse	

Relationships

Parents

Data Type	Name	Version
T ₀₁₀	Alert Certainty	1.0

DateTime Reviewed

Identification

Name	DateTime Reviewed		
Metadata Type	Data Element		
Identifier	DE-15523	<i>External Identifier</i>	
Version	1.0		

Definition

Definition	The date or date and time that the specific Alert was last reviewed. <i>The date and time could be automatically generated the system, or could be entered or overridden by a user if required.</i>		
Definition Source	NEHTA		
Synonymous Names			
Context			
Context Source			
Assumptions			
Data Type	DateTime		
Value Domain			

Usage


Conditions of Use	Where possible, exact dates should be used. Incomplete dates should generally only be used for retrospective data collection.		
Conditions of Use Source	NEHTA		
Examples	Example 1) 31/03/2004. Example 2) 03/2004. Example 3) 2004. Example 4) 31/03/2004 13:10.		
Misuse	Entering approximate dates when an exact date is available.		

Data Flow

Sender Type	Either system or human.		
Sender Role(s)/Organisation(s)/Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.		
Recipient Type	Either system or human.		
Recipient Role(s)/Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.		

Relationships

Parents

Data Type	Name	Version	Obligation within parent	Condition within parent	Occurrence within parent
	ALERT	1.0	Optional		Single

DateTime Reported

Identification

Name	DateTime Reported		
Metadata Type	Data Element		
Identifier	DE-15524	<i>External Identifier</i>	
Version	1.0		

Definition

Definition	The date or date and time that the specific Alert was reported. <i>The date and time could be automatically generated the system, or could be entered or overridden by a user if required.</i>
Definition Source	NEHTA
Synonymous Names	
Context	
Context Source	
Assumptions	
Data Type	DateTime
Value Domain	

Usage


Conditions of Use	Where possible, exact dates should be used. Incomplete dates should generally only be used for retrospective data collection.
Conditions of Use Source	NEHTA
Examples	Example 1) 31/03/2004. Example 2) 03/2004. Example 3) 2004. Example 4) 31/03/2004 13:10.
Misuse	Entering approximate dates when an exact date is available.

Data Flow

Sender Type	Either system or human.
Sender Role(s)/Organisation(s)/Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.
Recipient Type	Either system or human.
Recipient Role(s)/Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.

Relationships

Parents

Data Type	Name	Version	Obligation within parent	Condition within parent	Occurrence within parent
	ALERT	1.0	Optional		Single

Alert Note

Identification

Name	Alert Note		
Metadata Type	Data Element		
Identifier	DE-591	<i>External Identifier</i>	
Version	1.0		

Definition

Definition	Free text comments relevant to the alert in question.		
Definition Source	NEHTA		
Synonymous Names			
Context	Used to provide additional narrative information in relation to the alert.		
Context Source	NEHTA		
Assumptions			
Data Type	Text		
Value Domain			

Usage


Conditions of Use			
Conditions of Use Source			
Examples			
Misuse	Duplicating information already in the Alert Description .		

Data Flow

Sender Type	Either system or human.		
Sender Role(s)/Organisation(s)/Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.		
Recipient Type	Either system or human.		
Recipient Role(s)/Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.		

Relationships

Parents

Data Type	Name	Version	Obligation within parent	Condition within parent	Occurrence within parent
	ALERT	1.0	Optional		Single

REPORTER IDENTIFICATION

Identification

Name	REPORTER IDENTIFICATION		
Metadata Type	Data group		
Identifier	DG-15520	External Identifier	AS4846-2006
Version	1.0		

Definition

Definition	Details pertinent to the identification of a healthcare provider individual who is reporting the alert information.
Definition Source	NEHTA
Synonymous Names	
Context	
Context Source	NEHTA
Scope	
Scope Source	NEHTA
Assumptions	

Usage


Conditions of Use	
Conditions of Use Source	
Misuse	

Data Flow



Sender Type	Either system or human.
Sender Role(s)/Organisation(s)/Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.
Recipient Type	Either system or human.
Recipient Role(s)/Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.





Relationships

Parents

Data Type	Name	Version	Obligation within parent	Condition within parent	Occurrence within parent
	ALERT	1.0	Essential		Single

Children

Data Type	Name	Version	Obligation	Condition	Occurrence
	HEALTHCARE PROVIDER IDENTIFIER-INDIVIDUAL (see external reference for full specification: AS4846 - 2006)	1.0	Desirable		Single
	PERSON NAME (see external reference for full specification: AS4846 - 2006)	1.0	Essential		Single

	<p>ORGANISATION NAME (see external reference for full specification: AS4846 - 2006)</p>	1.0	Conditional	(required if requesting healthcare provider facility is external to the Diagnostic Imaging Service provider facility)	Single
	<p>ADDRESS (see external reference for full specification: AS4846 - 2006)</p>	1.0	Conditional	(required if requesting healthcare provider facility is external to the Diagnostic Imaging Service provider facility)	Single
	<p>ELECTRONIC COMMUNICATION DETAILS (see external reference for full specification: AS4846 - 2006)</p>	1.0	Essential		Single
	<p>Provider Occupation Category</p>	1.0	Optional	(may be required for certain test requests, e.g. MRI)	Single

Information Provided By

Identification

Name	Information Provided By		
Metadata Type	Data Element		
Identifier	DE-503	<i>External Identifier</i>	
Version	1.0		

Definition

Definition	A category of the source of the health information in this record.		
Definition Source	NEHTA		
Synonymous Names			
Context			
Context Source			
Assumptions			
Data Type	CodedText		
Value Domain	Information Provided By values		

Usage


Conditions of Use	To specify the source of the subject of care's health information when information is being captured by a healthcare provider.
Conditions of Use Source	NEHTA
Examples	Example 1) Subject of care. Example 2) Carer. Example 3) Other.
Misuse	

Data Flow

Sender Type	Either system or human.
Sender Role(s)/Organisation(s)/Jurisdiction(s)	Sender Role(s) can include: Healthcare provider. Sender Organisation Role(s) can include: Healthcare institution, Medical practice.
Recipient Type	Either system or human.
Recipient Role(s)/Organisation(s)/Jurisdiction(s)	Recipient Role(s) can include: Healthcare provider. Recipient Organisation Role(s) can include: Healthcare institution, Medical practice.

Relationships

Parents

Data Type	Name	Version	Obligation within parent	Condition within parent	Occurrence within parent
	ALERT	1.0	Desirable		Single

VD Information Provided By values

Identification

Name	Information Provided By
Metadata Type	Value Domain
Identifier	VD-050
Version	1.0

Definition

Definition	A category which specifies the source of the information.
Definition Source	NEHTA

Value Domain

Source	NEHTA
Version Number	
Permissible Values	Carer; Device; Healthcare provider; Other; and Subject of care.

Usage

Default Value	Healthcare provider.
Conditions of Use	The value domain options are mutually exclusive and cannot be used in conjunction with each other. Carer: An individual who provides regular and sustained care and/or assistance to the subject of care. Other: An individual who does not provide regular and sustained care and/or assistance to the subject of care.
Conditions of Use Source	NEHTA
Misuse	

Relationships

Parents

Data Type	Name	Version
T ₀₁₀	Information Provided By	1.0

Acronyms

AIHW	Australian Institute of Health & Welfare
EHR	Electronic Health Record
HL7	Health Level Seven
MBS	Medical Benefits Scheme
METeOR	METadata On-line Registry (http://meteor.aihw.gov.au)
NEHTA	National E-Health Transition Authority
SEHR	Shared Electronic Health Record

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