

nehta

Alert

Data Specification

Version 2.0 — 7 Sep 2009

Final

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Document Information

Change history

Version	Date	Comments
1.0	29 Jun 2007	Initial public release
1.1	29 Feb 2008	<ul style="list-style-type: none">• minor typographical corrections and wording changes in Introduction• Figure 1 in Introduction updated to show more comprehensive information• there are no significant alterations that affect the data structure or use of this document
2.0	7 Sep 2009	Updated to incorporate changes made in the version 2.0 of the Discharge Summary Specification.

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- 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 Terminology

NEHTA, through the National Clinical Terminology and Information Service (NCTIS), 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.

SNOMED CT has been recommended by NEHTA and endorsed by the Australian, State and Territory governments as the preferred clinical terminology for Australia, and is now freely available for e-health software developers to use in their Australian products under IHTSDO (International Health Terminology Standards Development Organisation) licensing arrangements.

While NEHTA's achievement of a national standard clinical terminology is based on SNOMED CT as the foundational resource, local variations and customisation of terms relevant to the Australian healthcare sector will be incorporated. SNOMED CT Australian Release (SNOMED CT AU) is the Australian extension to SNOMED CT; the integrated national release of SNOMED CT for implementation in Australian deployed clinical IT systems. NEHTA is also developing the Australian Medicines Terminology (AMT) as the designated clinical terminology for medicines available in Australia. The AMT will provide a consistent approach to the identification and naming of medicines, to support medicines management and activity across the Australian healthcare domain. The AMT will be integrated with SNOMED CT-AU in the near future.

Reference sets listed as value domains within this document have been developed taking into account data element and data group definitions and how they align and complement the SNOMED CT concept model. For further information regarding terminology and the development of reference sets please visit <http://www.nehta.gov.au/connecting-australia/clinical-terminologies> and direct your questions or feedback to terminologies@nehta.gov.au.

1.5 Related Documents

The following documents are companion documents to this Data Specification:

[NEHTA Data Specification and Structured Document Template Guide for Use](#)¹

Version No.: 1.0, Issued: 07 August 2009

This guide describes the generic data structures, data types, keywords and icons used within this Data Specification.

[NEHTA Participation Data Specification](#)²

Version No.: 1.0, Issued: 16 July 2009

This document contains the full specification of the participation data type used within this Data Specification.

[NEHTA Acronyms, Abbreviations & Glossary of Terms](#)³

Version No.: 1.2, Issued: 25 May 2005

A complete listing of all relevant acronyms and abbreviations, and a glossary of terms.













¹ http://www.nehta.gov.au/component/docman/doc_download/771-data-specifications-and-sdt-guide-for-use-20090807

² http://www.nehta.gov.au/component/docman/doc_download/754-participation-data-specification-v10

³ http://www.nehta.gov.au/dmdocuments/Glossary_v1-2.pdf

2 Specification

2.1 Data Hierarchy

	ALERT		
	Alert Type		!
	Alert Description		!
	DateTime Started		0
	DateTime Ended		0
	DateTime Reviewed		0
	Active Status		0
	Alert Certainty		0
	Alert Note		0
	DateTime Reported		0
	Information Provided by		0
	REPORTER		0

2.2 ALERT

Identification

Name	ALERT
Meta-data Type	Data Group
Identifier	DG-15518
Version	2.0

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.
Notes	This item is repeated for every instance of an alert. Should not be used for recording Adverse Reactions.

Relationships

Children

Data Type	Name	Version	Obligation	Condition	Occurrence
	Alert Type	2.0	Essential		Single
	Alert Description	1.0	Essential		Single
	DateTime Started	1.0	Optional		Single
	DateTime Ended	1.0	Optional		Single
	DateTime Reviewed	1.0	Optional		Single
	Active Status	1.0	Optional		Single
	Alert Certainty	1.0	Optional		Single
	Alert Note	1.0	Optional		Single
	DateTime Reported	1.0	Optional		Single
	Information Provided by	2.0	Optional		Single
	REPORTER	1.0	Optional		Single

2.3 Alert Type

Identification

Name	Alert Type
Meta-data Type	Data Element
Identifier	DE-15584

Definition

Definition	The type of alert (e.g. administrative, clinical or medical, home environment, infection risk, safety and security, special mental health, special needs and/or preferences).
Definition Source	NEHTA
Synonymous Names	Warning type Alert class
Notes	
Data Type	CodeableText
Value Domain	Not specified - Use existing code sets until NEHTA determines a suitable common reference set.

Usage

Examples	<ol style="list-style-type: none"> 1. Psychosocial 2. Administrative. 3. Clinical or Medical. 4. Home environment. 5. Infection risk. 6. Safety and security. 7. Special mental health. 8. Special needs and/or preferences.
-----------------	--

Relationships

Parents

Data Type	Name	Version	Obligation	Condition	Occurrence
⌘	ALERT	1.0	Essential		Single

2.4 Alert Description

Identification

Name	Alert Description
Meta-data Type	Data Element
Identifier	DE-15585

Definition

Definition	Details of the nature of the alert.
Definition Source	NEHTA
Synonymous Names	Warning description
Notes	
Data Type	CodeableText
Value Domain	Not specified - Use existing code sets until NEHTA determines a suitable common reference set.

Usage

Examples	<ol style="list-style-type: none"> 1. Animals present at subject of care's home. 2. Anaesthetic risk. 3. Pacemaker present. 4. Subject of care is a risk to others. 5. Subject of care speaks no English.
-----------------	--

Relationships

Parents

Data Type	Name	Version	Obligation	Condition	Occurrence
⌘	ALERT	1.0	Essential		Single

2.5 DateTime Started

Identification

Name	DateTime Started
Meta-data Type	Data Element
Identifier	DE-15507

Definition


Definition	The datetime when the specific Alert was initiated.
Definition Source	NEHTA
Synonymous Names	Onset
Notes	
Data Type	DateTime
Value Domain	

Usage

Examples	<ol style="list-style-type: none"> 2004-03-31 2004-03 2004 2004-03-3113:10
-----------------	--

Relationships

Parents

Data Type	Name	Version	Obligation	Condition	Occurrence
	ALERT	1.0	Optional		Single

2.6 DateTime Ended

Identification

Name	DateTime Ended
Meta-data Type	Data Element
Identifier	DE-15510

Definition


Definition	The date or date and time that the specific Alert was no longer valid.
Definition Source	NEHTA
Synonymous Names	
Notes	
Data Type	DateTime
Value Domain	

Usage

Examples	<ol style="list-style-type: none"> 2004-03-31 2004-03 2004 2004-03-3113:10
-----------------	--

Relationships

Parents

Data Type	Name	Version	Obligation	Condition	Occurrence
	ALERT	1.0	Optional		Single

2.7 DateTime Reviewed

Identification

Name	DateTime Reviewed
Meta-data Type	Data Element
Identifier	DE-15523

Definition


Definition	The date or date and time that the specific Alert was last reviewed.
Definition Source	NEHTA
Synonymous Names	
Notes	
Data Type	DateTime
Value Domain	

Usage

Examples	<ol style="list-style-type: none"> 2004-03-31 2004-03 2004 2004-03-3113:10
-----------------	--

Relationships

Parents

Data Type	Name	Version	Obligation	Condition	Occurrence
	ALERT	1.0	Optional		Single

2.8 Active Status

Identification

Name	Active Status
Meta-data Type	Data Element
Identifier	DE-15517

Definition

Definition	An indication of whether the Alert is considered an active or inactive issue.
Definition Source	NEHTA
Synonymous Names	
Notes	
Data Type	CodedText
Value Domain	Not specified - Use existing code sets until NEHTA determines a suitable common reference set.

Usage

Examples	<ol style="list-style-type: none"> 1. Active. 2. Inactive. 3. Resolved.
-----------------	--

Relationships

Parents

Data Type	Name	Version	Obligation	Condition	Occurrence
⌘	ALERT	1.0	Optional		Single

2.9 Alert Certainty

Identification

Name	Alert Certainty
Meta-data Type	Data Element
Identifier	DE-15589

Definition


Definition	Used to indicate the degree of confidence concerning the existence of the alert.
Definition Source	NEHTA
Synonymous Names	
Notes	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.
Data Type	CodedText
Value Domain	Not specified - Use existing code sets until NEHTA determines a suitable common reference set.

Usage

Examples	<ol style="list-style-type: none"> 1. Confirmed. 2. Suspected. 3. Discounted.
-----------------	--

Relationships

Parents

Data Type	Name	Version	Obligation	Condition	Occurrence
	ALERT	1.0	Optional		Single

2.10 Alert Note

Identification

Name	Alert Note
Meta-data Type	Data Element
Identifier	DE-15591

Definition

Definition	Additional comments relevant to the alert.
Definition Source	NEHTA
Synonymous Names	
Notes	Captures detailed information about the alert in question that is not otherwise captured in other Alert data elements.
Data Type	Text
Value Domain	

Usage

Examples	
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Relationships

Parents

Data Type	Name	Version	Obligation	Condition	Occurrence
⌘	ALERT	1.0	Optional		Single

2.11 DateTime Reported

Identification

Name	DateTime Reported
Meta-data Type	Data Element
Identifier	DE-15508

Definition


Definition	The date or date and time that the specific Alert was reported.
Definition Source	NEHTA
Synonymous Names	
Notes	
Data Type	DateTime
Value Domain	

Usage

Examples	<ol style="list-style-type: none"> 2004-03-31 2004-03 2004 2004-03-3113:10
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Relationships

Parents

Data Type	Name	Version	Obligation	Condition	Occurrence
	ALERT	1.0	Optional		Single

2.12 Information Provided by

Identification

Name	Information Provided by
Meta-data Type	Data Element
Identifier	DE-15503

Definition

Definition	A category of the source of the health information in this record.
Definition Source	NEHTA
Synonymous Names	
Notes	
Data Type	CodeableText
Value Domain	Not specified - Use existing code sets until NEHTA determines a suitable common reference set.

Usage

Examples	<ol style="list-style-type: none"> 1. Subject of care. 2. Carer. 3. Other.
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Relationships

Parents

Data Type	Name	Version	Obligation	Condition	Occurrence
⌘	ALERT	1.0	Optional		Single

2.13 REPORTER

Identification

Name	REPORTER (Reuse of Participation Data Group)
Meta-data Type	Data Group
Identifier	DG-10296
Version	1.0

Definition

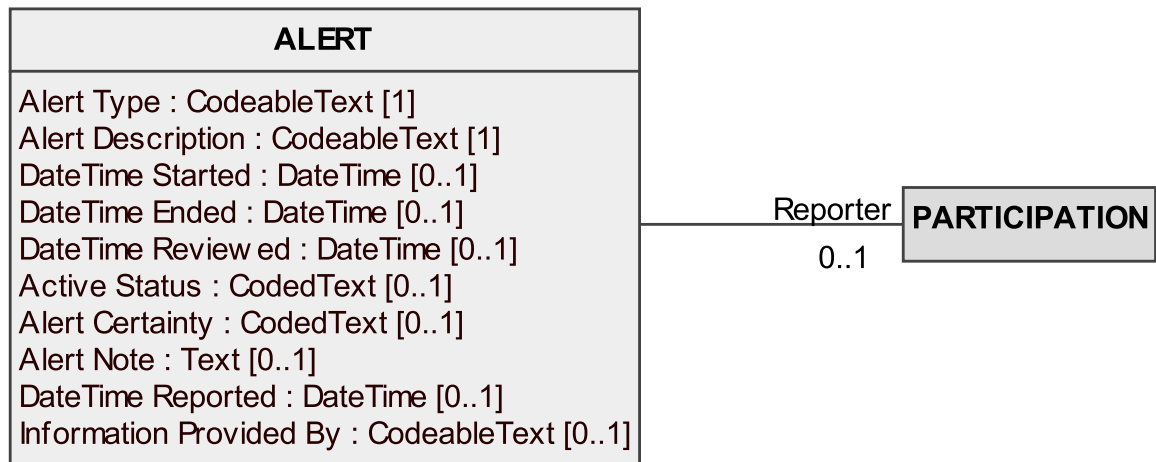
Definition	Details pertinent to the identification of a healthcare provider individual who is reporting the alert information.
Definition Source	NEHTA
Synonymous Names	
Notes	

Relationships

Parents

Data Type	Name	Version	Obligation	Condition	Occurrence
FE	ALERT	1.0	Optional		Single

3 UML Diagram



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