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## **Discharge Summary Terminology Release Note**

**Beta Release**

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Draft for comment

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# 1 Purpose

The purpose of this document is to provide a brief description of the Discharge Summary Terminology deliverables and their location, highlight resolved and outstanding issues and also provide links to supporting documentation relevant to the release.

# 2 Introduction

The scope of the Discharge Summary Terminology contained in this release has been defined by the Discharge Summary Package v1.0. The Discharge Summary Terminology comprises existing SNOMED CT concepts that meet the data specification requirements outlined in the *National Discharge Summary - Data Content Specifications v1.0*. Specifically, Discharge Summary Terminology is designed to support the electronic information exchange of discharge summary information between the acute care and general practice settings.

NEHTA's terminology work features an iterative development lifecycle designed to incorporate feedback following each successive release. Access to Discharge Summary Terminology documents and software terminology browser is limited to those holding the following license agreements currently managed by NEHTA:

- The SNOMED CT Affiliate License Agreement for access to SNOMED CT International Release;
- The Australian National Terminology Release License Agreement to provide access to extensions and derivatives supplied by NEHTA.

# 3 Release Log

## Data Specification Development

ID	Open Issues
<b>Issue</b>  <b>Ref No. 1</b>	<p>The ability of the Discharge Summary Data Content Specification to satisfy requirements for structured clinical terminology. This requirement will support unambiguous entry of clinical information that reflects the needs of acute care to general practitioners e-health community.</p> <p><b>AAR-2 Provision to record 'Adverse Reaction Presence'.</b></p> <p>Additional Data Elements required to fully express:</p> <ul style="list-style-type: none"> <li>• Nil known allergies and adverse reactions</li> <li>• Known allergies and adverse reaction</li> <li>• Unknown</li> </ul>

**AAR-4 Provision to record route of administration.**

The data element Agent Description alone does not always communicate a comprehensive understanding of the allergy or adverse reaction and as such may not inform clinical decision making.

For example, the Australian Medicines Terminology (AMT) Model represents for example 'Injection' (form) but not 'IV infusion' (route).

Historically most adverse reactions are represented using abstract substance description (e.g. Amoxicillin). However, in some cases it will be desirable to specify if a reaction was to a particular route of administration, e.g. intravenous infusion.

**PXT- 8** The Discharge Summary Data Content Specifications v1.0, 'Procedures Performed This Visit' are defined as "therapeutic/treatment procedures performed during the healthcare visit or encounter, and excludes diagnostic procedures". The definition in the Clinical Intervention Data Specification v1.1 defines clinical interventions as invasive, non invasive and cognitive interventions as such allowing therapeutic or diagnostic procedures to be included in this reference set.

A requirement exists to capture diagnostic procedures in the discharge summary; hence we have adopted the definition from the Clinical Intervention Data Specification v1.1. A request to align specifications has been logged.

## Qualifying Information

ID	Open Issues
<b>Issue</b> <b>Ref No. 2</b>	<p>Concepts may be further qualified to provide specific information, such as finding site, laterality, causative agents or mechanisms of injury etc. Communicating qualifying information will be considered in future iterations of Discharge Summary data specifications.</p>
	<p><b>PXT- 2</b> Further analysis is required to determine the best approach to express 'laterality' to record the representation of procedure laterality (when clinically significant).</p> <p>Pre-coordinated concepts existing in SNOMED CT do not cater for all possible clinical interventions that required 'laterality' to be stated.</p>
	<p><b>PXT- 3</b> Further analysis is required to determine the best approach to express 'priority' to record the representation of procedure priority (when clinically significant).</p> <p>Pre-coordinated concepts existing in SNOMED CT do not cater for all possible Clinical Interventions that required 'priority' to be stated.</p>
	<p><b>PXT- 4</b> Further analysis is required to determine the best approach to express 'Anatomical site' to record the representation of procedure anatomical site (when clinically significant).</p> <p>Pre-coordinated concepts existing in SNOMED CT do not cater for all possible Clinical Interventions that required 'anatomical site' to be stated.</p>

## Contextual Information

ID	Open Issues
<b>Issue</b>	The ability to record and clearly communicate contextual information.
<b>Ref No. 3</b>	Contextual information can be used to represent explicit detail regarding procedures and clinical findings.  Examples of this include family history of conditions or procedures, past history of conditions not currently present, suspected conditions and the absence of findings, or procedures not undertaken which are important in clinical care.  The meaning of a concept may change on the basis of contextual information.

## Interaction between AMT and SNOMED CT

ID	Open Issues
<b>Issue</b>	The Australian Medicines Terminology (AMT) is currently not integrated with SNOMED CT.
<b>Ref No. 4</b>	

## Provision to record an adverse reaction to a class of medications

ID	Open Issues
<b>Issue</b>	<b>AAR-7</b> There is currently no provision to record an adverse reaction to a class of medications within the adverse reactions section of the discharge summary.
<b>Ref No. 5</b>	Medications are often classified by their chemical structure or by their therapeutic purpose. For example a patient may report to the doctor that he/she is allergic to NSAIDs (Non-steroidal anti-inflammatory drugs).

## 4 Supporting Documentation

The following supporting documentation is available for download from the NEHTA website.

Documents listed below contain SNOMED CT International Release data and are only available to current licensees of SNOMED CT. To apply for a licence simply register with NEHTA<sup>1</sup>.

### 4.1 Discharge Summary Terminology

#### 4.1.1 Discharge Summary Terminology Approach Document

This document describes the scope for the Discharge Summary Terminology in this release, along with terminology guiding principles used in the creation and development of the Discharge Summary reference sets. Permissible concept examples are provided to enable better content understanding of each reference set, along with how Discharge Summary Terminology is aligned to the *National Discharge Summary - Data Content Specifications v1.0*. The approach document describes the rationale behind the approach taken to develop terminology for three domains within NEHTA's electronic discharge summary, Adverse Reactions, Problem/Diagnosis and Clinical Intervention. The document demonstrates how the terminology is aligned to clinical use. This document is provided as a draft for comment.

##### File Details:

Current Version date	Filename details
26 September 2008	NEHTA_0278_2008_Discharge_Summary_Terminology_Approach_Draft_20080926.zip

#### 4.1.2 SCT-AU Reference Set Implementation Guide

This document describes the basics of terminology and reference sets and expands on some of the complexities of implementing these reference sets in a practical way. This document is provided as a draft for comment.

##### File Details:

Current Version date	Filename details
29 August 2008	NEHTA_0240_2008_SCT_AU_Reference_Set_Implementation_Guide_Draft_20080829 This file is found on the <a href="https://nehta.org.au/aht/index.php">NEHTA website</a> <sup>2</sup> .

<sup>1</sup> <https://nehta.org.au/aht/index.php>

### 4.1.3 Discharge Summary Terminology Release Note

This Release Note accompanies the Discharge Summary Terminology deliverables. The purpose of this document is to provide a brief description of the Discharge Summary Terminology deliverables and their location, highlight resolved and outstanding issues and also provide links to supporting documentation relevant to the release.

It includes information such as a release log, a brief description of the deliverables, their online location and supporting documentation relevant to the release.

#### File Details:

Current Version date	Filename details
26 September 2008	NEHTA_0280_2008 _ Discharge_Summary_Terminology_Release_Note_ 20080926.pdf This file is found on the <a href="#">NEHTA website</a> <sup>2</sup> .

### 4.1.4 Discharge Summary Terminology Cover Note

A communications note that introduces the work undertaken and the purpose of the Discharge Summary Terminology released to support the Discharge Summary Package v1.0.

#### File Details:

Current version date	Filename details
26 September 2008	NEHTA_0279_2008 _ Discharge_Summary_Terminology_Cover_Note_ 20080926.pdf This file is found on the <a href="#">NEHTA website</a> <sup>3</sup> .

<sup>2</sup> [http://www.nehta.gov.au/index.php?option=com\\_docman&task=cat\\_view&gid=178&Itemid=139](http://www.nehta.gov.au/index.php?option=com_docman&task=cat_view&gid=178&Itemid=139)

## 4.2 SNOMED CT Supporting Documentation

Access to these up to date documents is restricted to current licensees of SNOMED CT. To apply for the free licenses, please register at <https://nehta.org.au/aht>.

### 4.2.1 SNOMED CT Technical Reference Guide

The Technical Reference Guide is intended for SNOMED CT implementers, such as software developers. The guide assumes an information technology background. Clinical knowledge is not a prerequisite.

It contains reference material related to the current release of SNOMED CT and includes file layouts, field sizes, required values, and their meanings and high-level data diagrams. It can be used to install and use SNOMED CT.

#### File Details:

Current version date	Filename details
31 January 2008	This file is found in the 'Essential Resources' section of the International Release, in the folder named 'Documentation and Other Resources'. SNOMED_CT_Technical_Reference_Guide_20080131.pdf

### 4.2.2 SNOMED CT Technical Implementation Guide

The Technical Implementation Guide is intended for SNOMED CT implementers, such as software developers. The guide assumes information technology and software development experience. Clinical knowledge is not required, although some background is helpful to understand the application context and needs.

It contains guidelines and advice about the design of applications using SNOMED CT, and covers topics such as terminology services, entering and storing information, and migration of legacy information.

#### File Details:

Current version date	Filename details
31 January 2008	This file is found in the 'Essential Resources' section of the International Release, in the folder named 'Documentation and Other Resources'. SNOMED_CT_Technical_Implementation_Guide_20080131.pdf

### 4.2.3 SNOMED CT User Guide

The User Guide is intended for clinical personnel, business directors, software project managers, and project leaders. Information technology experience, though not necessary, is helpful.

The guide is intended to explain SNOMED CT's capabilities and uses from a content perspective. It explains the content and the principles used to model the terminology.

#### File Details:

Current version date	Filename details
31 January 2008	This file is found in the 'Essential Resources' section of the International Release, in the folder named 'Documentation and Other Resources' SNOMED_CT_User_Guide_20080131.pdf

# 5 Discharge Summary Terminology

## 5.1 Terminology Viewer

The Terminology beta is released in the form of a SNOMED CT compliant viewer. The Viewer enables users to view the content of the reference sets for the Adverse Reaction data group (Adverse Reaction Description, Finding Site Description and Finding Site Qualifier), Problem/Diagnosis Description and Clinical Intervention Description. Concepts that have been appropriately selected from relevant SNOMED CT hierarchies form these three particular reference sets serving for Discharge Summary Package.

The SCT-AU viewer is a terminology browser, available in a downloadable form from the secure NEHTA website, for presentation of Australian Clinical Terminology data. The data bundled with the viewer contains SNOMED CT identifiers and therefore requires interested stakeholders to have licensed SNOMED CT through NEHTA prior to obtaining it for review.

The package of items within the zipped viewer folder includes:

- SCT-AU Viewer and Installation Guide in PDF format;
- SCT-AU Viewer Licence in PDF format; and
- SCT-AU Viewer installer:
  - Windows  
(NEHTA\_0281\_2008\_SCT\_AU\_Discharge\_Summary\_Terminology\_Viewer\_Win\_Draft\_20080926.zip); or
  - Macintosh  
(NEHTA\_0282\_2008\_SCT\_AU\_Discharge\_Summary\_Terminology\_Viewer\_Mac\_Draft\_20080926.zip).

The reference sets provided in the Discharge Summary Terminology Viewer include:

- Problem/Diagnosis Description Reference Set (32509021000036102);
- Clinical Intervention Description Reference Set (3251302100003610);
- Adverse Reaction Description Reference Set (32511021000036100);
- Finding Site Description Reference Set (32512021000036108); and
- Finding Site Qualifier Reference Set (32515021000036102).

The reference set for Agent Description is still under development. However the appropriate concepts to populate the Agent description (VD – 20160) can be viewed using the Australian Medicines Terminology (AMT) Viewer v1.8. These concepts will be available in a reference set format in a subsequent release. The AMT viewer can be downloaded from <https://nehta.org.au/aht>.

## 5.2 Distribution Files

The distribution file (NEHTA\_0283\_2008\_SCT-AU\_Distribution\_File\_Discharge\_Summary\_20080926.zip) associated with this release is based on the January 2008 SNOMED CT International release. This file is provided as a draft for comment.

This release contains:

- Three data files:
  - Concepts
  - Descriptions
  - Relationships
- UK Language Sub Set
- ICD9 Mapping Files
- Additional structures identifying content relevant to Australia

The SCT-AU Distribution File is restricted to those holding SNOMED CT license agreements managed by NEHTA. To apply for the free licenses, please register at <https://nehta.org.au/aht>.

The AMT data file (Australian Medicines Terminology – Data v1.8) contains the concepts appropriate for the Agent Description value domain and can be downloaded from <https://nehta.org.au/aht>.

## 5.3 Value Domains Bindings

The Terminology consists of appropriately constrained SNOMED CT concepts for Allergy/Adverse Reaction, Diagnosis and Procedure domains respectively that are suitable for the NEHTA Discharge Summary Package v1.0. These concepts have been identified using reference set methodology, in the creation of NEHTA's domains reference set. The following table demonstrates how the Terminology aligns to NEHTA's 'National Discharge Summary – Data Content Specification version 1.0'.

Reference set Name & ID	Data Element Name & ID	Value Domain Name & ID	Description
Agent Description	Agent Description DE – 20160	Agent Description VD – 20160	<p>The concepts for Agent Description are obtained from the Australian Medicines Terminology (AMT). The reference set for Agent Description is still under development. However the appropriate concepts to populate the Agent Description (VD – 20160) can be viewed using the Australian Medicines Terminology (AMT) Viewer v1.8.</p> <p>It should be noted that the scope for this release is limited to PBS medicines.</p> <p>Please refer to section 5.6 in the "Approach" document for more information.</p>
Adverse Reaction Description reference set 3251102100003 6100	Adverse Reaction Description DE – 20162	Adverse Reaction Description VD – 20162	Adverse Reaction Description reference set contains the concepts for an adverse reaction description that may be recorded in the Discharge Summary on a subject of care.
Finding Site Description reference set 3251202100003 6108	Finding Site Description DE – 20163	Finding Site Description VD – 20163	Finding Site Description reference set contains the concepts for the finding site description associated with an adverse reaction that may be recorded in the Discharge Summary on a subject of care.
Finding Site Qualifier reference set 3251502100003 6102	Finding Site Qualifier DE – 20164	Finding Site Qualifier VD – 20164	Finding Site Qualifier reference set contains concepts that further qualify a finding site associated with an adverse reaction that may be recorded in the Discharge Summary on a subject of care.
Problem/diagnosis Description reference set 3250902100003 6102	Problem/diagnosis Description DE – 20126	Problem/diagnosis Description VD – 20126	Problem/diagnosis Description reference set contains the concepts for problem/diagnosis that may be recorded in the Discharge Summary on a subject of care.
Clinical Intervention Description reference set 3251302100003 610	Clinical Intervention Description DE – 20132	Clinical Intervention Description Values VD – 20132	Clinical Intervention Description reference set contains the concepts for procedures performed at this visit that may be recorded in the Discharge Summary on a subject of care.