nehta

Information Requirements

Consumer Entered Notes

Version 0.07 - 19 December 2011

Final

National E-Health Transition Authority Ltd
Level 25
56 Pitt Street
Sydney, NSW, 2000
Australia.
www.nehta.gov.au

Document Information

Change history

Version	Date	Contributor	Comments
0.01	15/9/11	Ann Stephens	Initial version
0.02	28/9/11	Ann Stephens	Feedback and changes to business requirements
0.03	30/9/11	Ann Stephens	Feedback word smithing
0.04	20/10/11	Ann Stephens	Feedback incorporated
0.05	26/10/11	Ann Stephens	Numbering updated
0.06	5/12/11	Ann Stephens	Change to data specs – one to many
0.07	19/12/11	Ann Stephens	Change to Proposed Data Model, section5.3

Document authorisation

Name	Title	Signature
Sean Holmes	Program Manager, Continuity of Care	

Table of Contents

Preface

Document Purpose

This document presents the information requirements for Consumer Entered Notes.

The Consumer Entered Notes Information Requirements are a logical set of data items for use in the PCEHR and are therefore independent of any particular platform, technology, exchange format or presentation format.

Updates to this document will be published as additional package components are developed, with feedback from the sector.

Intended Audience

This document is intended for all interested stakeholders including:

- Consumers and consumer representatives
- Clinicians, such as general practitioners
- Software vendors developing eHealth system products
- Senior managers and policy makers, clinical experts, health information managers, IT operations and support teams, system integrators
- Stakeholders associated with the development and use of upcoming eHealth initiatives relating to 'continuity of care'
- Both technical and non-technical readers

Document Status

Final.

1 Introduction

This document presents the Information Requirements for Consumer Entered Notes, as recommended for use in Australian eHealth systems.

The Information Requirements are the minimum set of data items that are recommended for implementation of the Consumer Entered Notes in the PCEHR.

1.1 Scope

The following statements regarding scope pertain only to the information requirement specifications herein and not more broadly to the PCEHR scope of work.

1.1.1 Scope Inclusions

The aim of Consumer Entered Notes (CEN) is to be an avenue for individuals to record notes within the PCEHR system.

The content of a Consumer Entered Notes will vary depending on the individual.

1.1.2 Scope Exclusions

Information derived from clinical systems is out of scope for this document.

1.2 Purpose

The PCEHR System will provide an avenue for individuals to record notes within the PCEHR via the consumer portal. These notes are provided as a memory aid for individuals and their representatives and are not visible to healthcare providers.

1.3 Exchange and Presentation Formats

The information presented here is defined at the logical level, and is therefore independent of specific exchange or presentation formats (e.g. HL7 v2.x or HL7 Clinical Document Architecture [CDA]).

Consequently, the Information Requirements will be mapped to HL7 CDA exchange format and published following the endorsement of the Information Requirements.

Similarly, the requirement that a particular piece of data be exchanged in a Consumer Entered Notes does not imply a requirement on the user interface. Some data elements (e.g. ‘Document Originating System Identifier’) are intended purely for purposes of internal processes within the receiving system. Similarly, other data elements (e.g. ‘Date of Birth’) have a number of different presentation options available (e.g. ‘Birth Day’ + ‘Year of Birth’ etc.), which are not considered here. In addition to this, the names given to data components and data items are in many cases not appropriate to be used as field labels on a user interface.

Implementations which modify the data item names in the 'Item' column of the following section to accommodate local practices (e.g. 'Person name' represented as 'Patient Name') may still conform to this specification, but only if the meanings of the variables listed in the other columns are not modified.

Please also note that the order in which the data items are listed in this document is not indicative of the order in which this data should be exchanged or presented to the user.

1.4 Adding Data

It is envisaged that the Consumer will enter data into the PCEHR system through a consumer portal. The consumer portal will provide a nationally operated portal to allow individuals to access their own PCEHR.

The consumer portal will support:

- Popular desktop web browsers, including, but not limited to Internet Explorer, Firefox, Safari and Chrome.
- Links to the Australian Government funded healthdirect Australia consumer portal
- Context sensitive links to health literacy information from HealthInsite on www.healthdirect.org.au.
- Space within portal pages for information about current public health campaigns.

2 Core Components

2.1 Overview

The information components of the Consumer Entered Notes information components define the minimum set of data that is recommended for best practice implementation in the PCEHR.

The current Information Requirement components are:

Component
Individual
Author's Name
Consumer Notes
Document Control

Each component is described in terms of requirements and rationale.

Indicative samples for usage are included to provide additional clarity, but are not intended to be a prescription for display. All content in the samples is completely fictitious.

This is followed with a representation of the proposed data model for each.

2.2 Guide to this document

The proposed data model for each of the components is defined below, using the following columns:

- *Component*: A high level section or group of data elements
- *Item*: An individual data element or data group. A data item may be a single unit of data (e.g. "Date of Birth"), or a set of data that has a standard structure (e.g. "Address")
- *Type*: The type of data associated with the component or data item. Note that this may be a simple data type (e.g. text, date) requiring a single field, or a predefined structure requiring a group of fields. Refer to legend in section 2.2.1 below.
- *Number of Values Allowed*: The number of times that the given component/item may be included in Consumer Entered Notes.

The following legends are included to assist the reader with the content of the tables that follow.

2.3 Data Type legend

The following table provides a description of the various data types in use.

Datatype	Notes
Boolean	A Boolean value can be either true or false, or may be empty.
Codeable Text	Codeable Text is a flexible data type to support both free text and coded text.
Coded Text	Values in this data type must come from the bound value list, with no exceptions.
DateTime	DateTime is used for specifying a single date and/or time. It can indicate a level of precision, and define estimated or partial dates.
Integer	Whole numbers.
Quantity	The Quantity data type is used for recording many real world measurements and observations. Includes the magnitude, value and the unit.
Text	Free text string.
Time Interval	Time Interval contains a Start DateTime and (optionally) an End DateTime.
Unique Identifier	An identifier that uniquely identifies a given entity.

2.3.1 "Number of Values Allowed" legend

In order to facilitate understanding by non-technical readers, the standard notation for cardinality has been mapped to a more readable style, in the following ways:

- The value of "*1*" is technically represented as "*1..1*"
- The value of "*1..Many*" is technically represented as "*1..**"
- The value of "*0..Many*" is technically represented as "*0..**"

The following table provides a description of the options for Number of Values Allowed.

Value	Min	Max	Notes	Example
1	1	1	Must have 1 value and only 1	Vaccine Brand Name (i.e. per each immunisation record)
0..1	0	1	Does not need a value in every document, but when it does, it can only ever have 1	Medicine Additional Comments (i.e. additional comments are not required for all medicines)
1..Many	1	Many	Must have at least 1 value, and can contain multiples	Individual Address
0..Many	0	Many	Does not need a value in every CEN, but when it does, it can contain multiples	Individual Communication Details

Supporting technical documentation (Structured Content Specifications and CDA Implementation Guide) fully complies with the standard technical notation.

3 Component: Individual

Description: The individual is the person about whom the healthcare information has been captured – that is, the subject of the information.

3.1 Requirements

Data item	Requirement statement	Rationale
Component	Each CEN shall always contain information about the individual and shall always contain the following mandatory items.	A CEN is only created pertaining to an individual and one cannot exist without that individual.
Person Name	The name of the individual shall be recorded in every CEN. Multiple names are allowed for the same individual.	Identification of the individual. Supports the indexing of clinical documents.
	The recording of individual name shall be consistent with Australian Standards of naming.	Allows interoperability. Eliminates ambiguity.
Person Identifier	Every CEN shall contain the individual's Individual Healthcare Identifier (IHI).	Allows interoperability. Eliminates ambiguity. Clinical safety. Supports the indexing of clinical documents.
	A CEN shall also be allowed to contain multiple identifiers for the individual.	Optionally the individual's local identifier to support transition to the use of national identifiers.

3.2 Samples & usage

1. The individual need only provide their name and IHI.

INDIVIDUAL	
Name	Mr William SMITH
IHI	8003600200002222

3.3 Proposed Data model

Data items	Data Type	Number of Values Allowed	Notes
Person Name	Person Name data group	1..Many	The individual's name, structured using a predefined type, consistent with Australian standards of naming (e.g. family name and first name etc.), as detailed in NEHTA's Participation Data Specification [PDS2011].
Person Identifier	Unique Identifier	1..Many	The unique identifier of the individual. This must include the individual's Individual Healthcare Identifier (IHI) and optionally the individual's local identifier.

4 Component: Author's Name (Authorised Representative)

Description: The Authorised Representative is an individual who is authorised by the law of any jurisdiction to be able to act on behalf of an individual for healthcare purposes. This individual may author documents for the individual using the individual's Health Identifier.

4.1 Requirements

Data item	Requirement statement	Rationale
Component	Each CEN shall contain the name of the author if they are someone other than the Individual.	A CEN may be authored by an authorised representative of the individual. This author should be identified.
Author's Name (Authorised Representative)	The name of the Authorised Representative shall be recorded in the CEN, when they author the consumer entered information for the individual.	Identification of the author who has represented the individual in the Consumer Entered document.
	The recording of author's name shall be consistent with Australian Standards of naming.	Allows interoperability. Eliminates ambiguity.

4.2 Samples & usage

2. The author's name is recorded

Author (Authorised Representative)	
Name	Mrs Wilma FLINSTANE

4.3 Proposed Data model

Data items	Data Type	Number of Values Allowed	Notes
Person Name	Person Name data group	1..Many	The author's name, structured using a predefined type, consistent with Australian standards of naming (e.g. family name and first name etc.), as detailed in NEHTA's

Data items	Data Type	Number of Values Allowed	Notes
			Participation Data Specification [PDS2011].

5 Component: Notes

Description: This section captures the consumer entered notes.

5.1 Requirements

Data item	Requirement statement	Rationale
Component	Information regarding the CEN shall contain the following items.	This section contains optional, consumer entered information related to their health and wellbeing. It is a step towards a strengthening involvement of individuals in their healthcare.
Date Information Entered	Each CEN shall record the date the patient enters information into the system.	This information may help an individual to track their health information.
Issue Title	A title shall be used for each CEN entry.	This title will enable easier viewing in the Consumer View.
Issue Description	Each CEN shall contain a free text narrative capturing the consumer's information about their health and wellbeing.	This information may help an individual to record health information. The consumer's notes should not be restrained into clinical language.

5.2 Samples & usage

Free-text style of presentation may appear like the following.

Consumer Entered Notes	
Date Information Entered	Friday 29 May, 2009.
Issue Title	My Diabetes
Issue Description	I saw my doctor today and he said my last test results were getting better, but he was still not happy with my diet. I should go back to that nice dietician Kate again.

5.3 Proposed Data model

Data items	Data Type	Number of Values Allowed	Notes
Date Information Entered	Date Time	1	The date/time when the consumer entered the information.
Issue Title	Text	1	This free text data element is intended to allow a summary title to the narrative.
Issue Description	Text	1	This free text data element is intended to allow the information to be input into a single text field, in narrative form.

6 Component: Document Control

Description: This section provides information about Consumer Entered Notes and is largely a technical requirement. The data item below is considered the one element of document control that would be relevant for display for end users. There are a number of technical requirements for document control which are not included here as they do not have direct clinical relevance.

6.1 Requirements

Data item	Requirement statement	Rationale
DateTime Completed	Each CEN shall include the date and time at which the CEN was signed off by the consumer.	Audit requirements

6.2 Samples & usage

1. Each and every Consumer Entered Notes will display the date & time that it was completed. A table-formatted style of presentation may appear like the following.

Consumer Entered Notes	
Date Completed	Friday 29 May, 2009.

6.3 Proposed Data model

Data items	Data Type	Number of Values Allowed	Notes
DateTime Completed	Date Time	1	The date/time when the Consumer Entered Note was completed (that is finalised) by the document authoriser. This date represents the date at which the specialist has completed the note, rather than the date on which it was sent. In most cases, these will be equivalent but occasionally where a system may be having distribution errors, the note may be signed off days before it is actually sent.