



**eHealth Prescription Record
PCEHR Conformance Profile v1.3**

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1.0	23 Jan 2013	Approved for external release.
1.1	9 May 2013	The requirements for digital signatures were modified.
1.2	9 Oct 2013	See Change Log in Appendix A
1.3	17 Feb 2015	

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1 Introduction

1.1 Purpose

This document summarises the requirements for Producers and Consumers of PCEHR Prescription Record clinical documents. The document also lists requirements for clinical information systems sending proprietary prescription information to an intermediary system. As well as listing requirements for clinical information systems that connect directly to the PCEHR, this document includes requirements for clinical information systems that upload prescription records to the PCEHR via an intermediary system such as a contracted service provider or registered repository.

This document lists the specific conformance requirements for PCEHR Prescription Record clinical documents that are in addition to the Common Conformance Profile for Clinical Documents [NEHTA2013].

1.2 Scope

The scope of this conformance profile is the use of PCEHR Prescription Record clinical documents in the context of the national infrastructure of the PCEHR system.

1.3 Intended audience

The intended audience includes the following organisations:

- Healthcare providers;
- Software vendors;
- Developers of health software systems; and
- Software test laboratories.

2 Abbreviations and terminology

Term	Meaning
AMT	Australian Medicines Terminology
CDA	Clinical Document Architecture; an XML-based markup standard intended to specify the encoding, structure and semantics of clinical documents exchanged between health software systems.
clinical document	A digital file containing personal health information about an individual, containing unstructured (narrative) information and optionally structured (atomic) information.
clinical information system (CIS)	A system that deals with the collection, storage, retrieval, communication, and use of health related data, information, and knowledge pertaining to subjects of care [AS5021]. The system may comprise one or more applications or components.
conformance	A measurement (by testing) of the adherence of an implementation to a specification or standard.
Consumer	In this document 'Consumer' refers to a software system that has the role of being a consumer of PCEHR Dispense Records.
contracted service provider (CSP)	An entity that may offer health software as a service, and support access to the PCEHR system on behalf of healthcare organisations. A CSP provides under a contract with the healthcare provider organisation: a) information technology services relating to the PCEHR system; or b) health information management services relating the PCEHR system. (Section 5 <i>PCEHR Act 2012</i> .)
CSP system	A software system operated by a CSP that deals information and knowledge pertaining to subjects of care [AS5021]. The system may comprise one or more applications or components. A CSP system may perform some or all of the functions of a CIS.
dispense item	An item that is being dispensed. The description of a dispense item includes the identification of the therapeutic good, dispensing information, and other optional information.
HL7	Health Level 7
healthcare consumer	A person who is the subject of care. (For the software system, see 'Consumer'.)
intermediary system	A software system that provides functions to assist a clinical information system to interact with the PCEHR infrastructure. An intermediary system may be a contracted service provider or registered repository.
MAY	When appearing in a conformance requirement, the verb MAY indicates an optional requirement.
originalText	The text as seen and/or selected by the user who entered the data which represents the intended meaning of the user. The originalText is an attribute of the Concept Descriptor data type [HL72010].
PCEHR	personally controlled electronic health record
PCEHR participant	A healthcare provider organisation, repository operator, portal operator, or contract service provider that has been registered with the PCEHR system operator as a participant in the PCEHR system [COM2012].
PBS	Pharmaceutical Benefits Scheme

Term	Meaning
Producer	In this document, 'producer' refers to a software system that creates PCEHR Dispense Records in CDA format.
registered consumer Portal	A third-party ¹ portal used by healthcare recipients to access information on the PCEHR system.
registered provider portal	A third-party portal used by healthcare providers to access information on the PCEHR system.
registered repository	A third-party repository used to store clinical documents and other clinical data that connects to the PCEHR system. A repository may either store clinical documents in a proprietary format, or a CDA format.
SHALL	When appearing in a conformance requirement, the verb SHALL indicates a mandatory requirement. Its negative form SHALL NOT indicates a prohibition
SHOULD	When appearing in a conformance requirement, the verb SHOULD indicates a recommendation. Its negative form SHOULD NOT indicates an option that is not recommended.

¹ Third-party refers to a software system developed independently of the national PCEHR System and intended to connect to the national PCEHR system. The portals provided the national PCEHR system are not registered consumer or registered provider portals.

3 Conformance requirements for eHealth Prescription Record

This section describes conformance requirements specific to PCEHR Prescription Records.

3.1 Relevant specifications

Relevant specifications are listed in Table 1.

Specification	Notes
<i>PCEHR Prescription Record Structured Content Specification</i> [NEHTA2012a]	Specifies the data elements and constrained values for a PCEHR Prescription Record at a logical level.
<i>PCEHR Prescription Record CDA Implementation Guide</i> [NEHTA2012b]	Specifies the mapping from the structured content specification into a document using an HL7 CDA structure.

Table 1 Specifications for the PCEHR Prescription Record

3.2 Conformance requirements for Producers

3.2.1 Objects of conformance

The objects of conformance are subject to the following requirements:

- 1 PCEHR Prescription Records **MAY** be produced by:
 - Clinical information systems;
 - CSP systems; and
 - Registered repositories.
- 2 PCEHR Prescription Records **SHALL NOT** be produced by:
 - Registered consumer portals;
 - Registered provider portals; or
 - The PCEHR system.

3.2.2 Conformance levels

- 1 A PCEHR Prescription Record sent to the PCEHR system **SHALL** conform to the requirements for one, and only one, of the following conformance levels: 3A or 3B, as defined in the Common Conformance Profile for Clinical Documents [NEHTA2013].

3.2.3 Clinical terminology

- 1 In a PCEHR Prescription Record, 'Prescription Item (MEDICATION INSTRUCTION) > Therapeutic Good Identification' **SHALL** include the originalText.

3.2.4 Clinical information system uploading to the PCEHR via an intermediary system

The following conformance requirements apply to a clinical information system that sends proprietary prescription information to an intermediary system for transformation into PCEHR Prescription Records, or for the removal of a PCEHR Prescription Record.

Note: Specific implementation details must be sought from the operator of an intermediary system.

- 1 The Clinical Information System **SHALL** conform to mandatory requirements for the role of a CIS Producer [NEHTA2012e] as follows:
 - a UC.CIS.001 (check if an advertised PCEHR exists): 019100
 - b UC.CIS.201 (upload a clinical document): 017841, 017842, 019100
 - c UC.CIS.202 (supersede a clinical document): 017841, 017842, 019100, 018338
 - d UC.CIS.203 (remove a clinical document): 017887, 019377, 019100.

Note: Although the specification of these requirements [NEHTA2012e] states that they apply to clinical information systems accessing the PCEHR system, they are extended here to also apply to clinical information systems sending proprietary prescription records to an intermediary system for transformation into PCEHR Prescription Records.

- 2 The Clinical Information System **SHALL** set the default consent for each prescription item to 'Consent Not Indicated' and **SHALL NOT** allow any subsequent changes to the prescription item consent settings if:
 - a The prescribing organisation is not a PCEHR Participant; or
 - b The prescriber's HPI-I is determined to be invalid; or
 - c The prescribing organisation's HPI-O is determined to be invalid; or
 - d The healthcare consumer's IHI is determined to be invalid.

In all other cases, the clinical information system **SHALL** call doesPCEHRExist prior to setting the default consent settings.

Notes:

a) Requirements for the validation of healthcare identifiers are stated in the requirements for clinical information systems [NEHTA2012e], which state that the validation of an IHI is mandatory. Validation of an HPI-I and HPI-O is mandatory if they are manually entered into the clinical information system [NEHTA2012d, requirements 10038 and 10040], otherwise validation of HPI-I and HPI-O prior to creating a prescription record is optional.

b) Validation of healthcare identifiers must be performed by a clinical information system that is accessing the intermediary system. The intermediary system may validate healthcare identifiers, but that is more properly the role of participating clinical information systems.

c) Requirements in this document refer to three consent states: 'Consent Not Indicated', 'Consent Indicated', and 'Consent Withdrawn'. The method of indicating the consent states will depend on the format of the proprietary prescription record.

d) The phrase 'prior to' means the existence of the PCEHR is determined during the episode of care (i.e. during the healthcare consumer's presence at the prescribing organisation).

- 3 If the doesPCEHRExist service returns an error of PCEHR_ERROR_0004 the clinical information system **SHALL** set the default consent setting for each prescription item to 'Consent Not Indicated' and **SHALL NOT** allow any subsequent changes to the prescription item consent settings.

Note: The doesPCEHRExist service will return an error of PCEHR_ERROR_0004 if the healthcare provider organisation (i.e. the prescribing organisation) is not a PCEHR participant.

- 4 The clinical information system **SHALL** use the returned status of the doesPCEHRExist call prior to setting default prescription item consent settings such that one of the following is selected:
 - a If the PCEHR is found to exist, the prescription item consent **SHALL** be set to indicate 'Consent Indicated';
 - b If the PCEHR is not found, the prescription item consent **SHALL** be set to 'Consent Not Indicated'; or
 - c If the attempt to find the PCEHR returns an error state, the prescription item consent **SHALL** be set to 'Consent Not Indicated'.

Note: If the healthcare consumer has a non-advertised PCEHR the doesPCEHRExist will indicate the PCEHR does not exist.

- 5 When sending a record of a new prescription to an intermediary system, the clinical information system **SHALL** allow the user to override the default prescription item consent settings if:
 - a The healthcare consumer indicates they consent to a prescription item being uploaded to the PCEHR, in which case the prescription item consent **SHALL** be set to 'Consent Indicated'; or
 - b The healthcare consumer or healthcare provider withdraws consent for a prescription item to be uploaded to the PCEHR, in which case the prescription item consent **SHALL** be changed to 'Consent Withdrawn'.
- 6 The clinical information system **SHALL** retain existing prescription item consent settings as previously recorded when superseding or removing a prescription item that has already been uploaded to the PCEHR, and **SHALL NOT** allow these to be changed by the user.

3.2.5 Uploading a PCEHR Prescription Record to a PCEHR

- 1 If the PCEHR Prescription Record Producer is a clinical information system, CSP system or registered repository, the PCEHR Prescription Record **SHALL** be uploaded to a PCEHR if consent has not been withdrawn and the prescribing organisation is a PCEHR participant.

Otherwise the PCEHR Prescription Record **SHALL NOT** be uploaded to a PCEHR.

Notes:

a) Consent may be withdrawn either because the healthcare consumer has withdrawn their consent, or because the healthcare provider has chosen not to upload the PCEHR Prescription Record to the PCEHR.

b) Consent management may be based on the healthcare provider's policy. For example it could be episodic.

- 2 If the PCEHR Prescription Record Producer transforms a proprietary prescription record into a PCEHR Prescription Record, the Producer **SHALL** upload the new PCEHR Prescription Record to a PCEHR if the prescription item consent setting indicates 'Consent Indicated' and the prescribing organisation is a PCEHR participant. Otherwise, the PCEHR Prescription Record Producer **SHALL NOT** upload the PCEHR Prescription Record to the PCEHR system.

3.2.6 Revision to a PCEHR Prescription Record

- 1 A PCEHR Prescription Record Producer **SHALL** supersede a previously-uploaded PCEHR Prescription Record when there is a change or error in the data used to create the originally-uploaded PCEHR Prescription Record.
- 2 If the supersede operation fails, the PCEHR Prescription Record Producer **SHALL** remove the previously-uploaded PCEHR Prescription Record.

Note: This requirement overrides requirements 017839 and 019042 listed in the Conformance Requirements for Clinical Information Systems Connecting to the PCEHR System [NEHTA2012e].

3.2.7 Temporary relaxation of the inclusion of HPI-I

The PCEHR Prescription Record Structured Content Specification [NEHTA2012a] and the PCEHR Prescription Record CDA Implementation Guide [NEHTA2012b] include mandatory conformance requirements for the inclusion of HPI-Is. These specifications state the conformance requirement

*"The value of one Entity Identifier **SHALL** be an Australian HPI-I"*

This applies to the mandatory data element:

- Prescriber > Participant > Entity Identifier

However, the mandatory requirement for an HPI-I for this data element is temporarily modified.

- 1 The value of one, and only one, Prescriber > Participant > Entity Identifier **SHALL** be an HPI-I if one is present in the PCEHR Prescription Record Producer, otherwise it **SHALL** have a value that identifies the prescriber (person) and the value **SHALL NOT** be a NullFlavor.

Notes:

a) The Common Conformance Profile for Clinical Documents [NEHTA2013] provides requirements for the inclusion of a local identifier for a document author. In the case of a PCEHR Prescription Record, the document author is the prescriber.

b) This relaxation is only available to specific healthcare provider organisations, at the discretion of the PCEHR System Operator. The relaxation is provided to allow time for large healthcare provider organisations to incorporate HPI-Is for their personnel in their systems.

3.2.8 Prescription item narrative block

Conformance to the PCEHR Prescription Record CDA Implementation Guide [NEHTA2012b] requires all clinical information encoded in a section to also be

represented in the corresponding narrative block. The encoded information in a PCEHR Prescription Record is used by the PCEHR system to create the Prescription and Dispense View. Therefore it is important that the narrative does not contain prescription items not included in the corresponding encoded entry.

1. Information in a narrative block **SHALL NOT** contain information about a prescription item not listed in the corresponding encoded section.

3.2.9 PCEHR Prescription Record unique instance identifier, setId and version number

The PCEHR Prescription Record CDA Implementation Guide [NEHTA2012b] provides information about the document identifiers without mandating the type of identifiers to be used. The identifier type is specified here.

- 1 The PCEHR Prescription Record unique instance identifier **SHALL** be provided as a universally unique identifier (UUID) value.
- 2 The PCEHR Prescription Record unique instance identifier UUID **SHALL** be encoded in canonical form² as the value of the root attribute of the /ClinicalDocument/id header element with no extension attribute.
- 3 The PCEHR Prescription Record setId **SHALL** be present and provided as a UUID value.
- 4 The PCEHR Prescription Record setId UUID value **SHALL** be encoded in canonical form² as the value of the root attribute in the /ClinicalDocument/setId header element and with no extension attribute.
- 5 The PCEHR Prescription Record version number **SHALL** be provided in the /ClinicalDocument/versionNumber header element.

3.2.10 Superseded document typeCode

Every PCEHR Prescription Record has at least one parent document. One instance of a parent document is the source prescription record in its original format prior to transformation into CDA format. This parent document is referenced using the typeCode XFRM (transform).

When a PCEHR Prescription Record supersedes a previously-created PCEHR Prescription Record, the PCEHR Prescription Record that is being superseded is referenced using the typeCode RPLC (replace). The following requirement also applies:

- 1 If the PCEHR Prescription Record supersedes a previously-created PCEHR Prescription Record, the PCEHR Prescription Record **SHALL** contain a /ClinicalDocument/relatedDocument/parentDocument header element with the typeCode attribute value of 'RPLC'.

3.2.11 PBS item codes

The PCEHR system atomic data in the PCEHR Prescription Record is used to construct a PCEHR Prescription and Dispense View. This requires the Therapeutic Good Identification values coded as PBS item codes to have at least six characters.

² The UUID canonical form has 32 alphanumeric characters and four hyphens using lower case alphabetic characters, in the form 8-4-4-4-12 for a total of 36 characters. For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6.

- 1 Any PBS item code used in Prescription Item (MEDICATION INSTRUCTION) > Therapeutic Good Identification **SHALL** be included as a code of at least six characters.
- 2 Any PBS item code that is less than six characters **SHALL** be prepended with leading zeros to create a code of six characters.

Note: This requirement only applies to the structured data. PBS item codes in the narrative should be included without being prepended with leading zeros.

3.2.12 Extensibility

The Common Conformance Profile for Clinical Documents notes that, by default, clinical documents may include additional data elements. A requirement is included here to disallow additional data elements in the structured data for PCEHR Prescription Records.

- 1 A PCEHR Prescription Record Producer **SHALL NOT** include data elements in PCEHR Prescription Record structured data that are not listed in the CDA implementation guide.
- 2 A PCEHR Prescription Record Producer **MAY** include additional data elements which are not specified in the CDA implementation guide in the narrative block for the Prescription Item section of a PCEHR Prescription Record.

3.2.13 Nullable fields

CDA implementation guides specify cardinalities for CDA data elements, but have only been able to provide little information on the proper use of nullFlavor. More information is provided here.

- 1 Data elements with a minimum cardinality of 1 listed in the PCEHR Prescription Record structured content specification, or CDA implementation guide, **SHALL** be present without any nullFlavor attribute. Additionally, a value **SHALL** be provided with the exception of data elements for which the PCEHR Prescription Record structured content specification, the CDA implementation guide or the conformance profile explicitly state that a nullFlavour is allowed.

3.2.14 Healthcare provider contact details

Clinical documents can support telecommunication and address details for participating healthcare providers. These commonly support entry of address, mobile phone, home phone, pager, fax and email address details as part of the system's healthcare provider record. Inclusion of personal provider contact details is typically supported on an optional basis. However, some clinical information systems automatically populate the relevant fields with personal provider details already stored in the system.

While inclusion of personal provider details may, in some cases, be useful for documents exchanged point-to-point between providers, it is a concern because this information becomes visible to the consumer once the clinical documents are uploaded to the consumer's PCEHR.

- 1 Software **SHALL** allow individual users to confirm which (if any) of their individual electronic communication details (e.g. email address, phone number or fax number) may be automatically included. The default value **SHALL** be 'no'.

- 2 Software **SHALL** allow individual users to confirm which (if any) of their individual addresses may be automatically included. The default value **SHALL** be 'no'.

3.3 Conformance requirements for Consumers

3.3.1 Objects of conformance

The objects of conformance requirements include:

- 1 PCEHR Prescription Records **MAY** be consumed by:
 - Clinical information systems;
 - CSP systems;
 - Registered consumer portals;
 - Registered provider portals;
 - Registered repositories; and
 - The PCEHR system.

3.3.2 Clinical terminology

- 1 If a clinical term from a PCEHR Prescription Record is transferred into some other form or document, the value of the originalText attribute **SHALL** be maintained.

For example, the value of the originalText attribute may be copied to another clinical document, or persisted in a database or patient record.

Appendix A Change log

This appendix lists the major changes and fixes applied to this document.

A.1 Changes from version 1.1 (9 May 2013) to version 1.2 (9 Oct 2013)

ID	Section	Change Detail	Rationale
1	3.2.4	This section has been added.	To state requirements for clinical information systems uploading proprietary prescription records to a registered repository.
2	3.2.5 and 3.2.6	These sections have been added.	To state consent requirements for clinical information systems sending information to the PCEHR.
3	3.2.7	This section has been added.	The requirement in the PCEHR Prescription Record SCS and CDA IG for mandatory inclusion of an HPI-I has been relaxed.
4	3.2.8	This section has been added.	To state requirements ensuring the consistency between the narrative and encoded data in
5	3.2.9 to 3.2.13	These sections have been added.	Requirements have been added for identifiers and version numbers, typeCode, PBS item codes, extensions and nullable fields.
6	4	Requirements for dispense record have been moved to another conformance profile.	Separating the prescription record and dispense record requirements improves the clarity of the conformance profile
7		The digital signature requirement was removed	Digital signature requirements are now in the Common Conformance Profile for Clinical Documents
8	References	References were updated	

A.2 Changes from version 1.2 (9 Oct 2013) to version 1.3 (17 Feb 2015)

ID	Section	Change Detail	Rationale
1	3.2.2	Removed point 2 and note	Updated to align with PCEHR Release 5
2	3.2.3	Removed point 1	Updated to align with PCEHR Release 5

ID	Section	Change Detail	Rationale
3	3.2.14	This section has been added.	To ensure only appropriate contact details for healthcare providers are included in clinical documents.

References

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