eHealth Integration Sample Code v2.0.3
Release Note

2 February 2016

Approved for external information

EP-2199:2016 eHealth Integration Sample Code v2.0.3

Release rationale

The eHealth Integration Sample Code (eHISC) comprises source code and associated documentation for the software. The enhancements made to eHISC v2.0.3 are listed in the table below.

Note that this release refers to *PCEHR*, rather than *My Health Record*. This will be updated in a future release.

Disclaimer: PCEHR means the My Health Record, formally the "Personally Controlled Electronic Health Record", within the meaning of the *My Health Records Act 2012* (Cth), formerly called the *Personally Controlled Electronic Health Records Act 2012* (Cth).

Change number[1]	Change description	Notes
CR 1	My Health Record system NOC compliance	eHISC 2.0.3 includes changes made to the system for My Health Record system NOC compliance.
CR 2	My Health Record system conformance, compliance and declaration	Changes made to the system for My Health Record system conformance, compliance and declaration: Removal of DVA number from Level 1A Discharge Summary, change to Mode of Separation display names.
CR 3	HI conformance, compliance and declaration	Changes made to the system for Healthcare Identifier conformance, compliance and declaration: Duplicate IHI alerting. Non-active HPI-I warning.
CR 4	My Health Record View	Handle the error if a patient has more than 1000 documents in their digital health record.
CR 5	My Health Record system Advertised improvements	Add a new method IsPcehrAdvertisedLocal to look up a patient's digital health record status in the local data without connecting to the My Health Record system. This was requested due to the UI making a large number of calls to the system.
CR 6	NEHTA CDA™[2] Generator Library	Updated the NEHTA CDAGenerator Library to only generate a single section in the CDA document when creating a Discharge Summary 1A document.
CR 7	Patient Summary	Added a date range selector to allow the user to reduce the number of documents retrieved from the My Health Record system. This is to work around the 1000 document limitation on the system.

[1] CR – Change Request; B – Bug Item

[2] CDA and HL7 are trademarks of Health Level Seven International and are registered with the United States Patent and Trademark Office.

Change number[1]	Change description	Notes
CR 8	NEHTA Stylesheets	Update the NEHTA stylesheets to version 1.2.9.
CR 9	Assisted Registration	Improved error information displayed to the user so they have a greater opportunity to resolve the issue and register the patient.
CR 10	Logout	A new configuration setting has been added allowing the Logout button to be removed for implementations that do not want users to be able to logout.
B 1	eHISC UI user security improvements	As part of the test deployment of eHISC 2.0.3, issues were found with the integration with some Active Directory installations involving multiple domains with one-way trusts. The Active Directory integration has been updated to make it more flexible.
B 2	Demographic mismatch status	An issue was found that prevented the demographic mismatch alert status from being saved into the IHI record after a Medicare or DVA number change.
B 3	Prescription and Dispense View	Fixed a bug the prevented users from seeing a patient's Prescription and Dispense View if the patient had no other documents loaded to their digital health record.
B 4	Gain Access	Fixed a bug where Gain Access would fail for patients without a current episode.
B 5	Withdraw Consent	Fixed a bug that prevented withdraw of consent to all of a patient's episodes if any of them had a document already uploaded.

Access to the eHealth integration sample code is provided subject to certain licence terms and terms of use. See licence information contained in the Core Software Package for details.

Package inclusions

Updated (supersedes previous version)

Identifier	Name and version

NEHTA-2186:2016	*eHealth Integration Sample Code – Core Software Package v2.0.3*
	Containing:
	• eHISC Core source code
	• Database (SQL files)
	• Web Service Description Language (WSDL) and related XML schemas
	• Documentation
	  ○ Source code build guide (covering Core and UI)
	  ○ Initial and clean installation guide
	  ○ Module core specification
	  ○ Service catalogue
	  ○ Merging specification
	  ○ PAS HL7 specification
	  ○ Evaluation guide
	  ○ Third-party software licences (covering Core and UI)

Identifier	Name and version

NEHTA-2187:2016	*eHealth Integration Sample Code – UI Software Package v2.0.3*
	Containing:
	• eHISC Web UI source code
	• Database (SQL files)
	• Documentation
	  ○ Web initial and clean installation guide
	  ○ Module web UI specification

NEHTA-2184:2016	*eHealth Integration Sample Code - Product Data Sheet v2.0.3*
NEHTA-2185:2016	*eHealth Integration Sample Code - Release Note v2.0.3* (this document)

Audience

Software vendors and healthcare organisations and integrators.

Known issues

None known.

Support

NEHTA's role in relation to the publication and support of this sample code is that NEHTA will:

- publish as sample code the latest version of the eHealth Integration Sample Code that has been accepted by the HIPS user group (see *Future releases*);
- provide limited technical support during the implementer's planning/build/test period, through NEHTA's business-as-usual implementation support channels. The level of support given will be at NEHTA's discretion and on a 'best efforts but no responsibility' basis;
- provide a conduit for feedback from users of the sample code to the HIPS user group; and
- communicate known issues (and associated fixes) with particular sample code releases to users.

To request support or to provide feedback, please email help@nehta.gov.au.

Future releases

A HIPS user group has been established, comprising those jurisdictions that use the HIPS software. Its primary objectives are to:

- Ensure that the HIPS product is available and supported for the jurisdictional members of the HIPS user group.
- Make decisions on future product direction and enhancements of the HIPS product.

As such, development of the HIPS software will continue ensuring the product stays aligned with the national infrastructure feature enhancements. Future releases under consideration by the HIPS user group include:

- Sending documents point-to-point via secure messaging – including looking up the National Health Service Directory to locate the end recipient, and sending the message either directly to a known end-point and/or to a secure messaging vendor intermediary with whom the implementer has a commercial arrangement.

Previous versions

V2.0.1 and v2.0.2 are unpublished updates.

End Product: EP-2036:2015 eHealth Integration Sample Code v2.0

Release date: 27 February 2015

Release rationale

The eHealth Integration Sample Code (eHISC) comprises source code and associated documentation for the software. eHISC v2.0 has had multiple enhancements, as listed below.

Change number[3]	Change description	Notes
CR 1	Patients Without IHI in Web UI	New web service operations and Web UI enhancements to allow viewing and printing a list of admitted patients whose IHI was not found.
CR 2	Withdrawal of Consent in Web UI	New web service operations and Web UI enhancements to allow listing and searching for patients and recording their withdrawal of consent to upload documents to the PCEHR system on an episode-by-episode basis.
CR 3	Disclosure of Hidden PCEHR in Web UI	New web service operations and Web UI enhancements to allow listing and searching for patients and recording their disclosure of the existence of a hidden PCEHR record.
CR 4	Removing Documents from PCEHR in Web UI	New web service operations and Web UI enhancements to allow listing and searching for patients, viewing uploaded documents and removing uploaded documents from the PCEHR system.
CR 5	Patient Landing Page in Web UI	Web UI enhancements to support embedding the eHISC PCEHR Web Viewer into existing clinical applications.
CR 6	Upload Level 1A Discharge Summary in Web Services	New web service operation to allow clinical systems to supply a discharge summary in PDF format along with minimal required metadata, to create a Level 1A CDA document with the PDF as the non-CDA body item, and upload this package to the PCEHR system.
CR 7	Registered Date of Birth	Enhancement to the IHI processing where, when enabled, eHISC will store the date of birth used in a successful IHI search along with the other patient demographics.
CR 8	Enterprise ID	Enhancement to the patient identifiers to allow a new type of identifier called Registered Enterprise Patient. This identifier holds the same information as the current State Patient Identifier but will create a Hospital Patient record if one does not currently exist for the patient.
CR 9	Upload Pathology Report and Diagnostic Imaging Report	This release includes support for uploading Pathology Report and Diagnostic Imaging Report documents to the PCEHR system.

3 CR – Change Request; B – Bug Item

Change number[3]	Change description	Notes
CR 10	CSP and Multitenant	The Multi-Tenant and CSP project has extended the eHISC-Core product to support the use of eHISC in an environment where a Contracted Service Provider (CSP) operates HIPS on behalf of several Healthcare Provider Organisations (HPO) that may not be permitted to share Healthcare Identifiers. • Multi-Tenant for IHI ensures that each HPO must obtain a patient's IHI from the HI Service separately, and cannot use the cached value that is stored by another HPO. • CSP for HI Service allows a CSP that operates HIPS to connect to the HI Service for IHI and HPI-I lookups using a Medicare certificate issued to the CSP, instead of connecting with the Medicare certificate issued to each HPO. • CSP for PCEHR allows a CSP that operates HIPS to connect to the PCEHR system using a "NASH PKI Certificate for Supporting Organisations" issued to the CSP, instead of connecting with the "NASH PKI Certificate for Health Provider Organisations" issued to each HPO. Note: a CSP that does not have access to the NASH certificate for each HPO will not be able to upload documents to the PCEHR, because the HPO certificate is required for CDA packaging. Viewing the PCEHR is still possible in this scenario.
CR 11	SQL Server 2012 Compatibility and High Availability Disaster Recovery through SQL Always On	Modifications of all databases in the solution to upgrade all SQL scripts to ensure compatibility with Microsoft SQL Server 2012, whilst ensuring that all SQL scripts are still backward compatible with SQL Server 2008 R2. Ensuring that the eHISC server database solution is able to be implemented and supported in a Microsoft SQL Server 2012 Always On Cluster.
B 1	Document Upload HPIO Validation	eHISC 1.0 added extra validation of a CDA document before uploading it. One of these steps was in error as the custodian does not need to have the same HPI-O as the uploading organisation, but the validation required it to be the same HPI-O. In lieu of validating the HPI-O directly with the HI Service, the resolution applied in this release is to allow the custodian HPI-O to be any of the HPI-O numbers registered within the same eHISC instance, as the validity of these numbers is checked by the eHISC system administrator during configuration.
B 2	HealthProviderOrganisationPatient Advertised Status Update Fix	A fix was applied for updates to the HealthProviderOrganisationPatient table to only update the PCEHR advertised or PCEHR disclosure status for a specific HPI-O against a specific Patient Master. In the previous version of eHISC all records for a singular, specific Patient Master in the HealthProviderOrganisationPatient table were updated regardless of the HPI-O being specified. This was restricted to records that were already existing in the HealthProviderOrganisationPatient table, which can be added via a positive check for a PCEHR status or a PCEHR disclosure, where the patient had flipped their PCEHR status to hidden in a hospital after previously having the PCEHR visible and then declaring the PCEHR at a subsequent visit.

Access to the eHealth integration sample code is provided subject to certain licence terms and terms of use.

Package inclusions

New

Identifier	Name and version

NEHTA-2037:2015	eHealth Integration Sample Code – Core Software Package v2.0
	Containing:
	• eHISC Core source code
	• Database (SQL files)
	• Documentation
	  ○ Source code build guide
	  ○ Initial and clean installation guide
	  ○ Module core specification
	  ○ Service catalogue
	  ○ Merging specification
	  ○ PAS HL7 specification (and related WSDL and XML schemas)
	  ○ Evaluation guide
	  ○ Third-party software licences

NEHTA-2038:2015	eHealth Integration Sample Code – UI Software Package v2.0
	Containing:
	• eHISC Web UI source code
	• Database (SQL files)
	• Documentation
	  ○ Source code build guide
	  ○ Web initial and clean installation guide
	  ○ Module web UI specification
	  ○ Third-party software licences

Updated

Identifier	Name and version
NEHTA-2040:2015	eHealth Integration Sample Code - Release Note v2.0 (this document)
NEHTA-2039:2015	eHealth Integration Sample Code - Product Data Sheet v2.0

Archived

The product components below have been archived and replaced by the updated files for v2.0. The documentation and source code are now in their respective software packages - Core or Web UI. The test harness and WSDLs are bundled with the Core source.

Identifier	Name and version
NEHTA-1691:2014	eHealth Integration Sample Code - Documentation v1.0
NEHTA-1688:2014	eHealth Integration Sample Code - Source Code v1.0
NEHTA-1689:2014	eHealth Integration Sample Code - Test Harness v1.0
NEHTA-1690:2014	eHealth Integration Sample Code - Web Service Descriptions v1.0

End Product: EP-1685:2014 eHealth Integration Sample Code v1.0

Release date: 15 April 2014

Release rationale

The eHealth integration sample code comprises the source code and associated documentation for the Healthcare Identifier and PCEHR System (HIPS) software, developed by a third party vendor on behalf of a number of states and territories. HIPS is a standalone middleware solution offering the following functionality:

- Connection to the Healthcare Identifiers Service to search for and retrieve national healthcare identifiers.
- Assisted PCEHR registration of patients.
- Connection to the PCEHR to:
  - Determine if a patient has an eHealth record.
  - View a patient's eHealth record;
  - Post clinical documents into this record including:
    - discharge summaries;
    - prescription and dispense records;
    - event summaries;
    - shared health summaries; and
    - specialist letters.
  - Package these documents prior to submission.

Access to the eHealth integration sample code is provided subject to certain licence terms and terms of use.

Package inclusions

New (to this end product)

Identifier	Name and version
NEHTA-1686:2014	eHealth Integration Sample Code - Release Note v1.0 *(this document)*
NEHTA-1687:2014	eHealth Integration Sample Code - Product Data Sheet v1.0
NEHTA-1688:2014	eHealth Integration Sample Code – Source Code v1.0 Containing: • HIPS Production Release 4.1.0 Source • HIPS Web UI Release 1.0.0 Source
NEHTA-1689:2014	eHealth Integration Sample Code – Test Harness v1.0 Containing: • Compiled Demo Harness version 4.1.0 executable • Compiled libraries as required to run Demo Harness • Template for Demo Harness configuration file
NEHTA-1690:2014	eHealth Integration Sample Code – Web Service Descriptions v1.0 Containing: Generated WSDL and XSD files for all HIPS web services source code packages

Identifier	Name and version
NEHTA-1691:2014	eHealth Integration Sample Code – Documentation v1.0 Containing: **HIPS Production Release 4.1.0** • Initial and Clean Installation Guide • Third Party Software Licences • HPI-I Search Functional and Technical Specification • Assisted Registration Functional and Technical Specification • Document Consumption Functional and Technical Specification • Document Production Functional and Technical Specification • Merging Specification • PAS HL7 Specification • Evaluation Guide **HIPS UI Web Release 1.0.0** • Web Deployment Guide • NPDR Web Design Specification • Assisted Registration Web Design Specification • Assisted Registration Requirements

Audience

- Software vendors and healthcare organisations and integrators

Known issues

None known.

Document date: 2 February 2016

Contact for enquiries
Telephone: 1300 901 001 or email: help@nehta.gov.au

Council of Australian Governments
The National E-Health Transition Authority is jointly funded by the Australian Government and all State and Territory Governments.