eHealth Integration Sample Code
Product Data Sheet v6.0

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Approved for external information

Key features

- Middleware for easy integration with national digital health infrastructure
  - Healthcare Identifiers (HI) Service
  - My Health Record system
- Packaging, upload, download and display of CDA™[1] documents
- Generation of pathology and diagnostic imaging report CDA documents from HL7™v2 messages
- Source code, binary code and comprehensive documentation

Usage (internal, external)

- Large-scale digital health implementations
- Vendors of digital health systems

Format

- Sample code, SQL scripts, WSDL and XML schema
- Binary code (Core component only)
- Comprehensive documentation

Overview

The eHealth Integration Sample Code (eHISC) product enables the easy integration of digital health systems with national digital health infrastructure services, such as the Healthcare Identifiers Service and the My Health Record system.

eHISC is a middleware product offering standards-based interfaces for seamless integration with systems like patient administration systems, clinical information systems, laboratory and radiology information systems. It is aimed primarily at supporting large-scale digital health environments typically found in organisations such as hospitals and diagnostic service providers; however, it is also suitable for direct integration with digital health products.

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

Key features of eHISC include:

Infrastructure service	eHISC features
Healthcare Identifiers Service	- Search healthcare identifiers - Retrieve healthcare identifiers - Cache healthcare identifiers
My Health Record system	- Assisted registration of patients - Determine whether a patient has a My Health Record - Upload of clinical documents - Packaging and digital signing of clinical documents - Conversion of HL7v2 pathology and diagnostic imaging reports: - HL7v2 ORU messages to CDA documents - ORU messages with attached PDF reports only - Seamless MLLP protocol for ORU message exchange - Displaying a patient's My Health Record - Download and display of clinical documents

Background

NEHTA has a strategic aim to support and facilitate the adoption of national digital health services across the health sector. A key element of delivering on this objective is supporting the implementation of solutions that integrate with the national Healthcare Identifiers Service and the My Health Record system.

NEHTA also seeks to collaborate through its implementations projects. This includes the compilation of targeted information for implementers, particularly the sharing of lessons learnt from previous implementation projects.

One result of this work is the development of the Healthcare Identifiers and PCEHR Service (HIPS) middleware solution, which has successfully been used by jurisdictional implementation projects. The eHISC product makes the functionality of HIPS available for a larger audience across the health sector.

The eHISC product represents sample code that implementers are free to update and modify to suit their specific needs. For those implementers that do not require any customisation of the eHISC Core component, the eHISC end product also contains a binary version of the eHISC Core component.

Product structure

The eHISC product contains the following product components:

Component	Description

Source Code Software Package	Sample code for all components of eHISC:
	• Core component:
	  ○ Source code (predominantly C#)
	  ○ WSDL and schema files
	  ○ SQL database scripts
	• UI component:
	  ○ Source code (predominantly C#)
	  ○ SQL database scripts
	• Documentation:
	  ○ Build Guide
	  ○ Installation Guides (Core and UI)
	  ○ Patient Administration HL7 Message Profile
	  ○ Pathology Report HL7 Message Profile
	  ○ Diagnostic Imaging Report HL7 Message Profile
	  ○ Patient Record Merging Profile
	  ○ Service Catalogue
	  ○ Module Guides (Core and UI)
	  ○ Evaluation Guide
	• Source Code Licence and Production Disclaimer
	• Third-Party Software Licences

Binary Software Package	Binary code for the Core component of eHISC:
	• Core component:
	  ○ Binary code
	  ○ SQL database scripts
	• Documentation:
	  ○ Installation Guide (Core)
	  ○ Patient Administration HL7 Message Profile
	  ○ Pathology Report HL7 Message Profile
	  ○ Diagnostic Imaging Report HL7 Message Profile
	  ○ Patient Record Merging Profile
	  ○ Service Catalogue
	  ○ Module Guide (Core)
	  ○ Evaluation Guide
	• eHISC Binary Software - Software Licence Terms and Conditions
	• Third-Party Software Licences

Product Data Sheet	This document
Release Note	Notes specific to a particular eHISC release

Documentation structure

The eHISC products contains a substantial number of guidance documents. To ensure optimum benefit from this documentation, NEHTA recommends to access the documents in a particular sequence, depending on the particular use case.

Use case	Recommended reading sequence
Product overview	1. Product Data Sheet 2. Release Note 3. Module Guide (Core) 4. Module Guide (UI)
Product evaluation	1. Build Guide 2. Initial and Clean Installation Guide (Core) 3. Initial and Clean Installation Guide (UI) 4. Evaluation Guide
Integration with existing systems	1. Pathology Results HL7v2 Profile 2. Diagnostic Imaging Results HL7v2 Profile 3. Patient Administration HL7v2 Profile 4. Patient Record Merging Profile 5. Service Catalogue
Legal terms and licences	1. Source Code Licence and Production Disclaimer 2. eHISC Binary Software - Software Licence Terms and Conditions 3. Third-Party Software Licences

Licence

The eHISC Binary Software is licensed under the eHISC Binary Software - Software Licence Terms and Conditions (included in the eHISC Binary Software Package).

The eHISC Source Code is licensed under the Source Code Licence and Production Disclaimer (included in the eHISC Source Code Software Package).

Downloads

eHISC is available free-of-charge from the NEHTA website:

http://www.nehta.gov.au/implementation-resources/implementation-and-adoption/ehealth-integration-sample-code

Support

The eHISC product represents sample code that implementers are free to modify, customise and integrate with their own software implementations. For this reason, NEHTA's ability to provide technical support is limited. Third-party technical support is available from commercial partner organisations. Implementers are encouraged to take out support contracts with suitable support providers to ensure the successful implementation and operation of eHISC.

For further information about the product or to provide feedback, please email the NEHTA Help Centre at help@nehta.gov.au or phone 1300 901 001. Your views on the scope and usability of eHISC will inform future releases.

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