

Use of Healthcare Identifiers in Health Software Systems Software Conformance Profile

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		Added CSP and GSO to glossary

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1 Introduction

1.1 Purpose

This document lists mandatory, conditional, and recommended software conformance requirements applicable to the implementation of the Healthcare Identifiers (HI) Service in software systems, via the business uses cases listed in Appendix A. These requirements are to be applied by the developers of such systems so healthcare identifiers are used in a manner that minimises risks to clinical safety, privacy, and information security, while maximising the benefits associated with their usage.

1.2 Intended audience

The intended audience includes:

- solution architects, business analysts, and software designers to understand the service specifications to incorporate them into their designs
- developers to implement the design so that it conforms to the service specifications; developers may include software developers, health jurisdictions and health departments
- testers to evaluate whether an HI implementation conforms to the service requirements.

1.3 Scope

This software conformance requirements specification has been developed to support the safe use of healthcare identifiers in health software systems. The conformance requirements listed in this document apply to one or more business use cases, where each business use case describes a scenario in which healthcare identifiers are used.

Correct handling of healthcare identifiers by health software systems will assist in the reduction of errors and increase efficiency in managing patient information, potentially leading to improvements in the quality of patient healthcare.

1.4 Background

The HI software conformance requirements were developed in a series of workshops with the healthcare identifiers working group, commencing in late 2010. This was initiated in response to the need to assure the clinically safe use of the national healthcare identifiers.

The initial publication of this document was overseen by the eHealth Compliance, Conformance, and Accreditation (CCA) Governance Group, which was composed of representatives from the following bodies: Services Australia, the Department of Health, the Medical Software Industry Association (MSIA), Australian Information Industry Association (AIIA) and Aged Care IT Vendors Association (ACIVA), National Association of Testing Authorities (NATA), Australian Digital Health Agency (previously NEHTA), and Standards Australia.

1.5 Related documents

The following documents form the complete set of guidelines for the use of healthcare identifiers:

- Health Identifiers Software Conformance Assessment Scheme [ADHA2011]
- Use of Healthcare Identifiers in Health Software Systems Business Use Cases [ADHA2014a]
- Use of Healthcare Identifiers in Health Software Systems Conformance Test Specifications [ADHA2014b].

2 Context

2.1 Healthcare identifier standards

Standards Australia has issued an Australian Standard for Person and Provider Identification in Healthcare [AS4846]. These contain conformance requirements that are not included in this HI software conformance requirements document. Developers of health software are encouraged to design their software to conform to the Australian standard as well as the software conformance requirements listed in this document. Developers should note that while conformance to these standards is encouraged, it is the requirements in section 3 of this document that will be used when testing the conformance of health software.

It is acknowledged that software may not have transitioned to AS4846. Where a conformance requirement references AS4846, it is permissible to instead use AS5017.

2.2 Requirements by business use case

This document contains conformance requirements for a set of business use cases.

Each business use case (UC) is identified by the notation UC.nnn. Each business use case has conformance requirements and each conformance requirement lists the business use case(s) to which it applies.

Business process models describe the workflow, tasks, and decisions for each business use case. They are only intended as a guide for developers of HI implementations and as aspects of a business use case that must be supported by HI implementations when explicitly stated as conformance requirements within this document.

HI implementations must conform to all mandatory and any relevant conditional conformance requirements of the business use cases they support, and not implement any prohibited capabilities for these business use cases. The developer of an HI implementation may select the business use cases applicable to their software and need not support all business use cases.

2.3 Conformance to the HI Service interface

An HI implementation may obtain access to the HI Service either:

- Directly, through web services included in the HI Service interface; or
- Indirectly, through third-party software or another health software system that accesses the HI Service.

If the HI implementation accesses the HI Service directly then it must conform to the system interface specifications for the HI Service. These specifications describe web services to access the HI Service and data exchanged between an HI implementation and the HI Service.

If the HI implementation does not access the HI Service directly, but does so indirectly via another software system, then the HI implementation does not need to conform to the web services but the developer may need to review the specifications to obtain information about the data associated with healthcare identifiers.

The system interface specifications for the HI Service may be obtained from the Services Australia website (<u>https://www.servicesaustralia.gov.au/healthcare-identifiers-service-for-software-developers?context=20</u>). Note that an accepted Licence Agreement – Use of the Healthcare Identifiers Licensed Material for Notice of Connection with Medicare Australia is required to gain access to the HI Licensed Material, which includes the system interface specifications.

Conformance requirements associated with HI Service web services relate to the versions outlined in the table below.

TECH.SIS	Web Service		Supported Version	
		N	N-1	
3	Update Provisional IHI via B2B	v3.0	n/a	
5	Update IHI via B2B	v3.2.0	v3.0.2	
6	IHI Inquiry –Search via B2B	v3.0	n/a	
8	Resolve Provisional IHI – Merge record via B2B	v3.0	n/a	
9	Resolve Provisional IHI – Create Unverified IHI via B2B	v3.0.2	n/a	
10	Create Provisional IHI via B2B	v3.0	n/a	
11	Create Unverified IHI via B2B	v3.0.2	n/a	
12	Consumer Search IHI Batch Synchronous	v3.0	n/a	
13	Manage Provider or Administrative Individual Details	v3.2.0	n/a	
14	Manage Provider Organisation Details	v3.2.0	n/a	
15	Read Provider or Administrative Individual Details	v3.2.0	n/a	
16	Read Provider Organisation Details	v3.2.0	n/a	
17	Healthcare Provider Directory - Search for Individual Provider Directory Entry	v3.2.0	n/a	
18	Healthcare Provider Directory - Search for Organisation Provider Directory Entry	v3.2.0	n/a	
19	Healthcare Provider Directory - Manage Provider Directory Entry	v3.2.0	n/a	
22	Read Reference Data	v3.2.0	n/a	
24	Notify of Duplicate IHI via B2B	v3.2.0	n/a	
25	Notify of Replica IHI via B2B	v3.2.0	n/a	
26	Create Verified IHI for Newborns	v4.0	n/a	
30	Consumer Search IHI Batch Asynchronous	v3.0	n/a	
31	Search for Provider Individual Details	v5.0.0	n/a	
32	Search for Provider Organisation Details	v5.0.0	n/a	
33	Search for Provider Individual Batch Asynchronous	v5.1.0	n/a	
34	Search for Provider Organisation Batch Asynchronous	v5.1.0	n/a	

The following web services have no corresponding software conformance requirements:

TECH.SIS	Web Service
13	Manage Provider or Administrative Individual Details
14	Manage Provider Organisation Details
15	Read Provider or Administrative Individual Details
16	Read Provider Organisation Details
22	Read Reference Data

2.4 Healthcare Identifiers Business Use Cases Summary

BUC	BUC description
UC.005	Search for patient health record
UC.010	Register patient
UC.011	Request verified IHI for a newborn
UC.015	Update patient health record
UC.025	Bulk update of IHI details
UC.035	Merge patient health records
UC.040	Split patient health record
UC.045	Individual logon
UC.070	Register Seed HPI-O
UC.075	Request digital credential for Seed HPI-O
UC.080	Maintain HPI-O Details
UC.100	Maintain RO Details
UC.105	Maintain RO or Seed OMO
UC.120	Software system audit log enquiries
UC.125	Maintain OMO details
UC.130	Validate HPI-I
UC.131	Search for HPI-Is in the HI Service
UC.135	Publish HPI-O to HI Service HPD
UC.145	Remove HPI-O to HPI-I Link
UC.150	Register network HPI-O
UC.155	Request digital credential for network HPI-O
UC.160	Register OMO for network HPI-O

BUC	BUC description
UC.175	Link HPI-I to HPI-O
UC.185	HI Service audit log enquiries
UC.200	Register a HPI-I directly through the HI Service
UC.205	Request digital credential for HPI-I
UC.215	Maintain HPI-I details
UC.225	Publish HPI-I to HI Service HPD
UC.235	Remove HPI-I to HPI-O Link
UC.240	Search for HPI-Is in HI Service HPD
UC.241	Search for HPI-Os in HI Service HPD
UC.290	Retire HPI-O
UC.295	Deactivate or reactivate HPI-O
UC.305	Validate HPI-O
UC.306	Get HPI-O status
UC.320	Request electronic clinical document
UC.325	Receive patient health information electronically
UC.330	Send patient health information electronically

BUC	BUC Description
UC.040	Split patient health record
UC.070	Register Seed HPI-O
UC.075	Request digital credential for Seed HPI-O
UC.100	Maintain RO Details
UC.105	Maintain RO or Seed OMO
UC.120	Software system audit log enquiries
UC.125	Maintain OMO details
UC.135	Publish HPI-O to HI Service HPD
UC.145	Remove HPI-O to HPI-I Link
UC.155	Request digital credential for network HPI-O
UC.160	Register OMO for network HPI-O
UC.175	Link HPI-I to HPI-O
UC.185	HI Service audit log enquiries
UC.200	Register a HPI-I directly through the HI Service
UC.205	Request digital credential for HPI-I
UC.215	Maintain HPI-I details
UC.225	Publish HPI-I to HI Service HPD
UC.235	Remove HPI-I to HPI-O Link
UC.290	Retire HPI-O
UC.295	Deactivate or reactivate HPI-O

The following Business Use Cases have no software conformance requirements:

2.5 Individual Healthcare Identifier (IHI) search technique

When there is no Individual Healthcare Identifier (IHI) included in the IHI Search webservice invocation, the permitted search types shall be restricted to the six described below.

Any health software searching for an IHI in the HI Service using the B2B channel shall not use any other IHI search types. An HI implementation need not support all the allowed search types. Note that this requirement does not apply to searches containing an IHI as a search parameter (e.g. searches to validate an IHI).

The allowed search types are listed below. Within each search type, the listed data elements are mandatory.

The search types are:

- 1 Medicare card search with Medicare card number, IRN, Family name, Given name, Date of birth, and Sex;
- 2 Medicare card search with Medicare card number, Family name, Given name, Date of birth, and Sex;
- 3 DVA file number search with DVA file number, Family name, Given name, Date of birth, and Sex; and
- 4 Address search with Family name, Given name, Date of birth, Sex and Address.

The following search types shall only be used when the patient has only one name and the software has the capability of indicating this fact:

- 5 Medicare card search with Medicare card number, IRN, Family name, Date of birth, and Sex; and
- 6 DVA file number search with DVA file number, Family name, Date of birth and Sex.

Software may indicate a patient has only one name by different means; for example, a flag, tick box, indicator, specific text, or other. Recording the surname in place of the given name or by leaving the given name blank is not considered an acceptable method of recording the patient has only one name. Storing an easily distinguished text/phrase in place of the given name, for example "no given name" may be considered an acceptable method of indicating the patient has no given name.

The software will need to demonstrate during testing that a specified text/phrase stored as the given name will result in a one-name search against the HI Service being submitted.

More than one search may be performed of each search type. For example, search type (3) could be performed with one Given name and if this fails, the search type may be repeated with a second Given name for that patient record.

If the health software automatically applies one search after another, then the search iteration shall not continue after a matching IHI has been found.

Health software shall not support any other search types when searching for an IHI in the HI Service. A healthcare provider that needs to perform another search type will do so using another channel to the HI Service, such as the HI Service Team.

The search types may be performed using historical data (e.g. using a person's maiden name for the Family name) subject to the condition that historical data shall be used only if the IHI searches using current data fail to find a matching IHI.

The allowed set of search types listed above is more restrictive than the search types allowed by the HI Service. Software is required to conform to these search types as they have been found to increase the likelihood that a correct IHI is returned.

2.6 Contracted service providers

Contracted service providers (CSPs) must conform to the requirements that apply for the Use Cases the CSP implements but are not required to meet any additional CSP related conformance requirements.

2.7 General supporting organisations

General supporting organisations (GSOs) must conform to the requirements that apply for the Use Cases the GSO implements but are not required to meet any additional GSO-related conformance requirements.

2.8 Generating and receiving electronic health messages

The HI software conformance scope includes requirements associated with the business use cases for sending an electronic message (UC.330), receiving an electronic message (UC.325) and requesting an electronic clinical document (from a repository) (UC.320).

The scope of these requirements is in the exchange of patient health information between thirdparty healthcare providers as well as repositories.

Conformance requirements for generating and receiving electronic health messages include those for validating Individual Healthcare Identifiers (IHIs), Healthcare Provider Identifiers – Individual (HPI-Is), and Healthcare Provider Identifiers – Organisation (HPIOs) via the HI Service B2B channel. Implementers should note that limitations of the HPI-O validation against the HI Service as described by TECH.SIS.HI.32 and TECH.SIS.HI.34 make this method of HPI-O validation inappropriate to use in a messaging context. Some messaging conformance requirements in this document intentionally prohibit the use of these two web services in some circumstances for this reason.

The implementation of TECH.SIS.HI.31 and TECH.SIS.HI.33, where an HPI-I may be validated against the HI Service rather than the HPD also make TECH.SIS.HI.15 suitable for use in the messaging context, even though TECH.SIS.HI.15 may only be used by an RO or OMO. This is reflected in this document and in the test cases.

Adding a timestamp in the message/document along with the healthcare identifier – indicating the date and time the healthcare identifier was last validated – may also absolve the receiver from having to revalidate the healthcare identifier against the HI Service, on the basis that the sender's validation of the healthcare identifier occurred within the previous 24-hour period.

References to HPI-Is or HPI-Os refer to those identifiers that relate to sending or receiving organisations and not to provider identifiers that are embedded in the clinical content of an electronic message/document – unless stated otherwise in the conformation requirements.

Software that receives an electronic message/document may create or update a patient record.

Requirements for UC.330, UC.325, and UC.320 are based on the assumption that the sending and receiving health software is connected to the HI Service. The requirements for the business use case of receiving an electronic message/document (UC.325) mandate that the successfully received electronic message/document is stored in a local system.

Health software storing patient records but not connected to the HI Service is encouraged to conform to the requirements for UC.330, UC.325, and UC.320 though this is not mandated. Health

software not designed to store patient records has no need to connect to the HI Service and does not need to meet the requirements listed here.

The HI Service does not support point in time validation of HPI-Is and HPI-Os and hence validating those identifiers within documents may fail as the documents age, however it would be reasonable and recommended for the same checks of identifiers to be applied as are specified here for sending and receiving systems. This would minimise message/document rejection.

2.9 Use of exceptions, alerts and warnings

Some software conformance requirements make references to exceptions, alerts, and/or warnings. These are defined in the glossary. The tables below outline the requirements that refer to these types of notifications. These requirements might be mandatory, conditional, or recommended, and might be related to any of the HI Use Cases.

Alert

5839, 5875, 16832, 16835, 17571, 17573, 23943, 23944, 18884, 5801, 5807, 10038, 10040, 10809, 23945, 16810, 16813, 16814, 16837, 16840, 16838

Warning or Alert

16815, 16839, 17421, 23502, 23504

2.10 Use of unverified and provisional IHIs in messages/electronic documents

Many of the requirements in this document involve conditional processing of Unverified and Provisional IHIs, including for the messaging use cases UC.320 and UC.330. This is for the sake of completeness and avoidance of future CCA rework. The decision on whether a healthcare provider organisation will use Provisional and/or Unverified IHIs, and in what context, rests with the organisation itself.

With particular regard to the use of Provisional and Unverified IHIs in messaging, the requirements herein should not be seen as a CCA recommendation, or a requirement, for their use in this context, as there remain doubts over the effectiveness and safety of this practice.

3 Conformance Requirements

This section lists mandatory, conditional and recommended software conformance requirements applicable to software implementing the acquisition of healthcare identifiers from the HI Service, storage and usage of these healthcare identifiers.

3.1 Mandatory Requirements

This section lists the mandatory software conformance requirements associated with the use of healthcare identifiers.

Requirements listed as mandatory are mandatory within the context of the related business use cases. Health software that implements a business use case must conform to the mandatory requirements for that business use case.

005805	Maximum name length
	When interacting with the HI Service the software SHALL be able to send no more than 40 characters for a patient's family name and send no more than 40 characters for each of a patient's given names. The given and family names SHALL be stored in full in the software system. If the HI Service returns a shortened patient name then the local system SHALL ensure the shortened name does not replace the full length patient name.
Priority	Mandatory
Applicable To	UC.010, UC.011, UC.015, UC.025, UC.035
Additional Notes	The HI Service uses only the first 40 characters of a family name and any given name.
005808	Capture and storage of date of birth The software SHALL allow for the capture and storage of a patient's full date of birth inclusive of day, month and four-digit year.
Priority	Mandatory
Applicable To	UC.005, UC.010, UC.011, UC.015
Additional Notes	Date of birth is a required IHI Search parameter as described in the HI Service system interface specifications [TECH.SIS.HI.06] and [TECH.SIS.HI.12]. The full date of birth needs to be stored using the day, month and 4-digit year. The accuracy of the birth date may also be indicated (refer requirement #5915).
005817	Allow a patient record without an IHI The software SHALL allow the creation and storage of a patient's record without an IHI unless there is a legislative requirement that an IHI is mandated.
Priority	Mandatory
Applicable To	UC.010, UC.011
Additional Notes	The provision of healthcare services is not dependent upon having an IHI number for a patient.

005820	 Recording of IHI details upon IHI assignment and update When assigning a new IHI or updating IHI details in a patient record, the software SHALL store the following: the IHI number; the IHI number status (Active/Deceased/Retired/Expired/Resolved); the date and time of the assignment/update (the assignment time SHALL be stored in hours and minutes unless the system is capable of more precision). the IHI record status (Verified/Unverified/Provisional).
Priority	Mandatory
Applicable To	UC.010, UC.011, UC.015, UC.025, UC.035
Additional Notes	Knowledge of the IHI number status, IHI record status, and date of assignment/update is used in the ongoing maintenance of an IHI in a patient record. The software shall retain previously assigned IHIs, including their number status and record status, in the patient records for historical purposes (see requirement 5847). If you don't have an existing record for the patient, and you are not creating one, then this requirement does not apply.
005839	Alert raised when the same IHI is assigned to records of more than one patient. The software SHALL raise an alert whenever an IHI is assigned to a patient record and the same IHI has already been assigned to one or more other records of patients in the local system.
Priority	Mandatory
Applicable To	UC.010, UC.015, UC.025
Additional Notes	Creating an alert when the same IHI has been assigned to two or more patients in the local system allows the operator to resolve local record issues or to report the IHI to the HI Service as a potential replica. The HI Service may be notified of a potential replica by the Notify of Replica IHI by B2B web service [TECH.SIS.HI.25] or by contacting the HI Service operator.
005843	Display of IHI Number Status and IHI Record Status
	The software SHALL have the capability to display the IHI number assigned to a patient, the IHI number status and the IHI record status.
Priority	Mandatory
Applicable To	UC.010, UC.011, UC.015, UC.035
Additional Notes	Having the capacity to display the IHI number status and record status together with the IHI will enable the operator to make informed decisions regarding the validity of the IHI and any need to revalidate it. Software may include patient records held in a patient administration system, administrative, clinical or master patient index systems used to store the IHI.

005847	Storage of a patient's previous IHI details The software SHALL store previously assigned IHIs, including their number status (if known) and record status (if known), in the patient records for historical and audit purposes.
Priority	Mandatory
Applicable To	UC.010, UC.011, UC.015, UC.025, UC.035
Additional Notes	The capacity for systems to be able to retain previously used IHIs would greatly assist with auditing, in ascertaining the identity of a patient and ensuring that the records maintained over time are assigned to the correct patient record.
	An IHI that is immediately validated against the HI Service and determined to be resolved or of a different record status in the HI Service is to be retained as a historical IHI. See the glossary for information about how an IHI may become resolved.
	Patient information used when registering a patient (UC.010) may include an IHI. During the process of patient registration the software may find that the IHI has become resolved. The resolved IHI is to be treated as a previously assigned IHI.
005872	Revalidation of individual IHIs
	The software SHALL allow for the revalidation of individual IHI numbers, IHI number statuses and IHI record statuses, using either the IHI Inquiry Search via B2B or the IHI Batch Searching via B2B web service described in the HI Service system interface specifications [TECH.SIS.HI.06] and [TECH.SIS.HI.12] respectively, regardless of the IHI record status.
Priority	Mandatory

- Applicable To UC.015
- AdditionalThis requirement ensures that the most current IHI, IHI number status and IHINotesrecord status can be assigned to the patient's record in the software. The
revalidation can be performed by operator request or is scheduled on a
periodic basis or is triggered by a system event. An operator request may be
performed by generating a message from an interactive system to the HI
connected software.

Creation of error log for all errors
The software SHALL create an error log for all error messages received from the HI Service including those that are resolved automatically. The log SHALL include the error date/time, in hours and minutes unless the system is capable of more precision, the error number, the error message and message ID reported by the HI Service.
Mandatory
UC.010, UC.011, UC.015, UC.025, UC.035, UC.080, UC.130, UC.131, UC.240, UC.241 UC.305, UC.306, UC.320, UC.325, UC.330
If the software is unable to complete a transaction with the HI Service then manual intervention may be required. By recording the error in a log a local operator will be able to review the error and take appropriate action.
Assignment of IHIs
If an IHI with a supported record status is returned from the HI Service for a patient, the software SHALL have the capacity to assign that IHI to the patient's record and raise an alert if the search criteria used matches another patient's demographic data from the same registration source. If an alert is raised, the system SHALL either discard the IHI or store it against
the target patient record and flag the records as potentially conflicting.
Mandatory
UC.010, UC.011, UC.015, UC.025, UC.035
Storing an IHI with a patient record assists with the realisation of the clinical safety benefits of the HI Service.
Enterprise Master Patient Indexes (EMPI) such as those used by state and territory health jurisdictions are populated with multiple registration sources e.g. hospital patient administration systems. They contain multiple records from different registration sources that identify the same person. It is desirable that these multiple records from different sources that identify the same person contain the same IHI value. This contributes to the process of linking these records across sources to manage patient identification across institution boundaries. Requirement 5875 seeks to address the exposure of fragmented patient records due to duplicate registration records within a single registration source/institution. Requirement 5839 may apply if the operator determines that the patient records possessing the same IHI are for different patients.

005906	IHI assignment for merged patient health record in the local system When merging two patient records in the local system, the software SHALL use either the IHI Inquiry Search via B2B [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12], as outlined in section 2.5, to obtain the IHI, the IHI number status and IHI record status for the surviving or final merged patient record.
Priority	Mandatory
Applicable To	UC.035
Additional Notes	The IHI Inquiry Search via B2B is to be performed even if the original patient records both possessed the same IHI. Contacting the HI Service to obtain the IHI ensures the most recent status information is obtained.
006077	Only one IHI shall be assigned to a patient's record
	The software SHALL ensure that only one IHI can be assigned as the current IHI in the local patient record.
Priority	
Priority Applicable To	in the local patient record.

006105 Capability to request the revalidation of verified IHIs upon update of core demographic details in the local system

When core demographic details associated with a verified IHI in a patient's record are updated the software SHALL provide the operator with the capacity to request the revalidation of that IHI, using either the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B web service [TECH.SIS.HI.12] to get the most up-to-date information.

Priority Mandatory

Applicable To UC.015

AdditionalCare should be exercised when a patient, whose record is currently associatedNoteswith a verified IHI, advises healthcare providers of new or changed core
demographic details upon presentation if they have not yet advised the HI
Service operator. This is because the update of core demographic details and
subsequent revalidation of the IHI, that would then be triggered, may result in
no IHI being found by the HI Service.

The capacity to revalidate IHIs upon update of core demographic details may be a configurable option.

Core demographic details consist of:

- family name;
- sex; and
- date of birth.

Note that the HI Service does not record a history of changes made to a person's date of birth or sex.

008028	Record audit trail of each healthcare identifier disclosed by the HI Service The software SHALL have the ability to record an audit trail of all healthcare identifiers disclosed by the HI Service regardless of type. The audit trail SHALL be retrievable.
	The audit trail SHALL record at least the following items:
	 the healthcare identifier disclosed by the HI Service;
	 any associated local record identifier(s);
	 identifying information of the operator or responsible officer, including their HPI-I if applicable and known, that initiated access to the HI Service;
	 the healthcare identifier (HPI-O) of the healthcare provider organisation that initiated the request to the HI Service (if not invoked by a general supporting organisation (GSO);
	 the registration number of the contracted service provider (CSP) that initiated the request to the HI Service (if invoked by a CSP);
	 the registration number of the GSO that initiated the request to the HI Service (if invoked by a GSO);
	 the HI Service operation (web service name) that disclosed the healthcare identifier;
	 system date and time (time in hours and minutes unless the system is capable of more precision);
	 the HI Service message ID as documented by [TECH.SIS.HI.01];
	• the batch ID (if applicable); and
	the version of the HI Service web service.
Priority	Mandatory
Applicable To	UC.010, UC.011, UC.015, UC.025, UC.035, UC.130, UC.131, UC.150, UC.240, UC.241, UC.305, UC.306
Additional Notes	The capacity to capture and report on activities (e.g. search/check/update/refresh/edit) against healthcare identifiers will assist in meeting the HI regulations [HIREG2020]. The HI regulations specify logs must be kept for 7 years starting on the day after the operator ceased to be authorised. In the case of a batch operation the operator may be the name of the Responsible Officer.
008526	Mandatory search technique and search types
	The software SHALL use the search technique and search types stated in section 2.5 for all the IHI searches it conducts using the B2B channel which do not use the IHI number as a search criteria.
Priority	Mandatory
Applicable To	UC.010, UC.011, UC.015, UC.025, UC.035
Additional Notes	The IHI search technique and search types outlined in section 2.5 reduce the risk of returning an incorrect IHI match.

010041	Search for an individual healthcare provider The software SHALL be capable of validating HPI-Is described in the HI Service system interface specification TECH.SIS.HI.15, 17, 31 or 33.
Priority	Mandatory
Applicable To	UC.130, UC.131, UC.320, UC.325, UC.330
Additional Notes	Conformance with this requirement helps provide assurance that the HPI-I is current and the individual's demographic information is correct.
010042	Search for an organisation healthcare provider The software SHALL be capable of validating HPI-Os via the web service described in the HI Service system interface specification, TECH.SIS.HI.16 or 18.
Priority	Mandatory
Applicable To	UC.150, UC.305, UC.320, UC.325, UC.330
Additional Notes	Conformance with this requirement helps provide assurance that the HPI-O is correctly associated with the organisation's demographic information. Implementers should note that failure to retrieve a match via the B2B channel does not necessarily mean that the relevant healthcare provider identifier record does not exist in the HI Service for the provider organisation. Inclusion in the HPD occurs only where healthcare provider organisations have given explicit consent to opt-in. Only those healthcare provider identifiers which have an 'active' number status can be retrieved via the B2B channel.
010618	Inclusion of patient's demographic data in an electronic message/document The software SHALL include the patient's demographic data used to obtain or validate the IHI in the electronic message/document.
Priority	Mandatory
Applicable To	UC.320, UC.330
Additional Notes	The inclusion of the patient's demographic data will provide a level of surety that the receiving software will be able to validate the IHI in the electronic message/document. The patient's preferred name(s) should be additionally provided within the electronic message/document where available/possible.

016813 Actions for when validation of a verified IHI returns a 'resolved' information message and a different IHI number

When a verified IHI is validated and the HI Service returns a 'resolved' information message and a different IHI number, the software SHALL NOT store that new IHI unless it can also be validated with the existing patient demographics in the local system.

If the new IHI cannot be validated with the local patient demographic data then an alert SHALL be raised so an operator can determine what action SHOULD be taken.

The new IHI number, IHI status and IHI record status SHALL be stored in the patient record if the IHI number can be validated using local patient demographic data.

The old IHI SHALL be moved to the patient record history with a resolved status regardless of the validity of the new IHI.

Priority Mandatory

Applicable To UC.015, UC.025, UC.035, UC.320, UC.330

Additional Notes The HI Service will return a new IHI number in addition to a message stating that the previous IHI has been resolved. This may occur if the HI Service operator has determined that the patient record is a duplicate and has merged the two patient records.

The new IHI number will be returned with the patient demographic data used in the original IHI search and this may not reflect the data stored against the new IHI record.

The local system will need to conform to UC.10 and/or UC.15 in order to meet the validation expectations stated in this requirement.

016814 Rules for when the validation of an active and verified IHI returns the same IHI number but with an IHI record status of unverified

When an active, verified IHI is validated and the HI Service returns the same IHI number but with a record status of unverified the software SHALL raise an alert.

Priority Mandatory

Applicable To UC.015, UC.025, UC.35, UC.320, UC.330

AdditionalWhen an IHI is validated the HI Service would not be expected to return an IHINotesrecord status that is 'lower' than the locally stored record status. If this does
occur an alert is raised and the new record status may or may not be stored in
the local patient record, depending on the design of the software or local
policy. The alert requires operator intervention to confirm that the change is
legitimate, most likely involving a query to the HI Service operator.

The design of the HI Service prevents the return of a provisional IHI so the conformance requirement does not consider this possibility.

The local system will need to conform to UC.10 and/or UC.15 in order to meet the validation expectations stated in this requirement.

016815	Rules for when the validation of an active and verified IHI returns the same IHI number and same IHI record status but with a different IHI status
	When an active and verified IHI is validated and the HI Service returns the same verified IHI number but with a different IHI status, the software SHALL either store the new IHI status in the patient record, or raise a warning or alert according to the following table.
	Status of the verified IHI returned from the HI Service
	Active: No change
	Deceased: A warning MAY be raised
	Retired: The new status SHALL be stored and a warning SHALL be raised
	Expired: An alert SHALL be raised
Priority	Mandatory
Applicable To	UC.015, UC.025, UC.035, UC.320, UC.330
Additional Notes	When the HI Service returns a deceased status the patient's death is not confirmed by the Registry of birth/death/marriages. Depending on the software design or local policy, the locally stored status may change to deceased or remain active until the HI Service returns a retired status, which is confirmation the patient is deceased.
	The expired status should not occur for a verified IHI.
	The local system will need to conform to UC.10 and/or UC.15 in order to meet the validation expectations stated in this requirement.
016832	Validation of an IHI before inclusion in a new electronic message/document
016832	Validation of an IHI before inclusion in a new electronic message/document An IHI SHALL be validated by using either the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12] prior to inclusion in a new electronic message/document. If the IHI cannot be validated then it SHALL NOT be included in the electronic message/document and an alert SHALL be raised. Validation SHALL have occurred within the previous 24 hours.
016832 Priority	An IHI SHALL be validated by using either the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12] prior to inclusion in a new electronic message/document. If the IHI cannot be validated then it SHALL NOT be included in the electronic message/document and an alert SHALL be raised. Validation SHALL have occurred within the
	An IHI SHALL be validated by using either the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12] prior to inclusion in a new electronic message/document. If the IHI cannot be validated then it SHALL NOT be included in the electronic message/document and an alert SHALL be raised. Validation SHALL have occurred within the previous 24 hours.
Priority	An IHI SHALL be validated by using either the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12] prior to inclusion in a new electronic message/document. If the IHI cannot be validated then it SHALL NOT be included in the electronic message/document and an alert SHALL be raised. Validation SHALL have occurred within the previous 24 hours. Mandatory
Priority Applicable To Additional	An IHI SHALL be validated by using either the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12] prior to inclusion in a new electronic message/document. If the IHI cannot be validated then it SHALL NOT be included in the electronic message/document and an alert SHALL be raised. Validation SHALL have occurred within the previous 24 hours. Mandatory UC.320, UC.330 Validating an IHI immediately prior (or within 24 hours) to it being sent to a
Priority Applicable To Additional	An IHI SHALL be validated by using either the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12] prior to inclusion in a new electronic message/document. If the IHI cannot be validated then it SHALL NOT be included in the electronic message/document and an alert SHALL be raised. Validation SHALL have occurred within the previous 24 hours. Mandatory UC.320, UC.330 Validating an IHI immediately prior (or within 24 hours) to it being sent to a recipient(s) ensures the IHI is valid for that patient at the time of sending. Successful HI validation within the 24 hour period prior to generation of the message / document represents an acceptable approach in the inclusion of
Priority Applicable To Additional	An IHI SHALL be validated by using either the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12] prior to inclusion in a new electronic message/document. If the IHI cannot be validated then it SHALL NOT be included in the electronic message/document and an alert SHALL be raised. Validation SHALL have occurred within the previous 24 hours. Mandatory UC.320, UC.330 Validating an IHI immediately prior (or within 24 hours) to it being sent to a recipient(s) ensures the IHI is valid for that patient at the time of sending. Successful HI validation within the 24 hour period prior to generation of the message / document represents an acceptable approach in the inclusion of IHIs in electronic messages/documents. The 24 hour validity period is proposed as a balanced risk approach to revalidation, such as at time of document transmission, regardless of when the

016835 Negative application-level acknowledgements or raise alert when receiving invalid electronic message/document When the receiving software determines any healthcare identifier in an incoming electronic message/document is invalid, the software SHALL initiate a negative application-level acknowledgement to the sender of the electronic message/document and/or alert an operator. Priority Mandatory **Applicable To** UC.320, UC.325 Additional The ability to initiate a negative application-level acknowledgement to the Notes sending system provides the opportunity for the sending system and healthcare provider to investigate possible errors. An invalid identifier is an identifier that fails validation. If the validation procedure returns a status of resolved then the identifier is only invalid if the resolved IHI cannot be validated against the local patient demographic data. 017421 Rules for when the validation of a deceased verified IHI returns the same IHI number and same IHI record status but with a different IHI status When a deceased verified IHI is validated and the HI Service returns the same IHI number but with a different IHI status, the software SHALL perform the actions listed in the following table. Status of the verified IHI returned from the HI Service Active: An alert SHALL be raised Deceased: No change Retired: The new status SHALL be stored and a warning SHALL be raised Expired: An alert SHALL be raised Priority Mandatory **Applicable To** UC.015, UC.025, UC.035, UC.320, UC.330 Additional When the HI Service returns a deceased status the patient's death is not Notes confirmed by the Registry of birth/death/marriages. When the patient's death is confirmed the IHI status is changed to retired. If the deceased status was created in error the IHI status would change from deceased back to active. Local operator intervention is required to manage the status change in the local software, so an alert should be raised. This alert is potentially serious, and according to local policies may require a warning to be raised. The local system will need to conform to UC.10 and/or UC.15 in order to meet the validation expectations stated in this requirement.

017571 Validation of the recipient's healthcare provider identifiers before inclusion in an electronic message/clinical document

Healthcare provider identifiers for individuals and organisations (i.e. HPI-Is and HPI-Os) of the healthcare provider receiving an electronic message/clinical document SHALL be validated prior to inclusion in an electronic message/clinical document. The validation SHALL either be performed against:

- the HI Service via [TECH.SIS.HI.15, 31 or 33]; or
- the Healthcare Provider Directory (HPD) via [TECH.SIS.HI.17 or 18]; or
- a local copy of the identifiers if the identifier was previously validated within the last 24 hours.

Validation SHALL be immediately prior to the electronic message/document being sent unless the identifier was validated within the last 24 hours. If an HPI-I or HPI-O cannot be validated then it SHALL NOT be included in the electronic message/document and an alert SHALL be raised.

Validation of the recipient's HPI-I only applies where the HPI-I is included in the message / document.

- Priority Mandatory
- Applicable To UC.330
- AdditionalValidating the recipient's HPI-Is and HPI-Os immediately prior to it being sentNotesto a third party healthcare provider ensures the identifiers are valid for that
healthcare provider at the time of sending.

Validation of the HPI-O with the organisational metadata provides a level of assurance that the destination of the message / document is correct.

Validation of the HPI-I, when included, ensures that the receiving practitioner has been correctly identified and that they have an active HPI-I.

Successful HI validation within the 24 hour period prior to generation of the message /document represents an acceptable approach to ensuring that only valid HIs are included in electronic messages/documents.

Use of the web service described by [TECH.SIS.HI.32] and [TECH.SIS.HI.34] is not permitted in this instance as these web services cannot ascertain the organisation details are correct for the HPI-O.

017573 Validating senders Healthcare Provider Identifiers in an incoming electronic message/document

When receiving an electronic message/document the software SHALL validate the incoming HPI-O/HPI-Is of the sender against:

- the HI Service via [TECH.SIS.HI.15, 31 or 33]; or
- the Healthcare Provider Directory (HPD) via [TECH.SIS.HI.17 or 18]; or
- a local copy of the identifier if the identifier was previously validated within the last 24 hours

If a HPI-I or HPI-O cannot be validated then the electronic message/document SHALL NOT be stored against any patient record, the HPI's SHALL NOT be stored outside the electronic message/document and an alert SHALL be raised for operator intervention.

Priority Mandatory

Applicable To UC.320, UC.325

AdditionalValidating a sender's HPI's provides assurance the document was authored
and transmitted by a healthcare provider recognised by the HI Service.NotesUse of the web service described by [TECH.SIS.HI.32 and 34] is not permitted
in this context as these web services cannot ascertain the organisation details

018884 Validation of the authors healthcare provider identifiers before inclusion in a new electronic message/document

The HPI-I and HPI-O of the author of the electronic message/document SHALL be validated prior to inclusion in an electronic message/document. The validation SHALL be performed against:

• the HI Service; or

are correct for the HPI-O.

- the Healthcare Provider Directory (HPD); or
- a local copy of the identifiers if the identifier was validated within the last 24 hours.

Validation SHALL occur immediately prior to the electronic message/document being sent, unless the identifier was validated within the last 24 hours. If an HPI-I or HPI-O cannot be validated then it SHALL NOT be included in the electronic message/document and an alert SHALL be raised.

Priority Mandatory

Applicable To UC.330

AdditionalValidating the authors HPI-Is and HPI-Os immediately prior to them being sentNotesto a third party healthcare provider ensures the identifiers are valid for the
authoring healthcare provider at the time of transmission.

Successful HI validation within the 24 hour period prior to generation of the message / document represents an acceptable approach to ensure that only valid HIs are included in electronic messages/documents.

021554	Providing birth plurality
	When invoking the web service defined by [TECH.SIS.HI.26] to create an IHI for a newborn, the software SHALL include a value for birth plurality according to the HI service system interface specifications [TECH.SIS.HI.02] and the birth plurality SHALL NOT be the value '9' for 'not stated'.
Priority	Mandatory
Applicable To	UC.011
Additional Notes	Providing birth plurality helps avoid potential duplicate assignment of verified IHIs and assists in future duplicate IHI resolution processes. The web service permits the birth plurality to be stated as unknown. The use of the 'not stated' value is prohibited when invoking this B2B web service.
021555	Providing birth order
	When invoking the web service defined by [TECH.SIS.HI.26] to create an IHI for a newborn, the software SHALL include a value for birth order according to the HI service system interface specifications [TECH.SIS.HI.02] and the birth order SHALL NOT be the value '9' for 'not stated '.
Priority	Mandatory
Applicable To	UC.011
Additional Notes	Providing birth order helps avoid potential duplicate assignment of verified IHIs and assists in future duplicate IHI resolution processes. The web service permits the birth order to be stated as unknown. The use of this value is prohibited when invoking this B2B web service.
021556	Providing date of birth accuracy indicator
	When invoking the web service defined by [TECH.SIS.HI.26] to create an IHI for a newborn, the software SHALL include a value for date of birth accuracy indicator according to the HI service system interface specifications [TECH.SIS.HI.02] and the value SHALL be 'AAA'.
Priority	Mandatory
Applicable To	UC.011
Additional Notes	The invocation of this web service should only apply in circumstances where a birth has happened in a hospital setting and as such the date of birth should be known to the healthcare professionals involved. If the date of birth is not known then an IHI should not be requested for the newborn.

021558	Check for existing IHI in the local software
	The software SHALL NOT invoke the web service defined in [TECH.SIS.HI.26] to create an IHI for a newborn if the newborn already has an IHI recorded in the patient record.
Priority	Mandatory
Applicable To	UC.011
Additional Notes	It is important a verified IHI is not created for a newborn that already has an IHI.
	The HI Service will not create an IHI for a newborn older than 14 days, or where the details in the request are the same as for an existing IHI record.
021561	Inclusion of a healthcare identifier in an electronic message/document with an unresolved exception or alert
021561	_
021561 Priority	an unresolved exception or alert The software SHALL NOT include a healthcare identifier (IHI, HPI-O, HPI-I) in an electronic message/document if an unresolved exception or alert exists for
	an unresolved exception or alert The software SHALL NOT include a healthcare identifier (IHI, HPI-O, HPI-I) in an electronic message/document if an unresolved exception or alert exists for that identifier in the local system.

023502 Raise an alert or warning when a Healthcare Provider Identifier is found to be resolved or not active

When the software attempts to validate a healthcare provider individual identifier (HPI-I) via the HI Service, and the HI Service indicates the identifier is resolved or not active (e.g. retired, resolved, deactivated), the software SHALL perform the actions listed in the following table.

Status of HPI-I

Active: No action

Retired: Raise a warning

Deactivated: Raise a warning

Resolved: Alert or warning (see below)

When a healthcare provider individual identifier is validated and the HI Service returns a 'resolved' status and a different healthcare provider individual identifier, the software SHALL NOT store that new healthcare provider identifier unless it can also be validated with the existing healthcare provider individual identifier demographic data in the local system.

If the new healthcare provider individual identifier cannot be validated with the local healthcare provider individual identifier demographic data then an alert SHALL be raised so an operator can determine what action SHOULD be taken.

The new healthcare provider individual identifier number and healthcare provider identifier status SHALL be stored in the healthcare provider record if the healthcare provider individual identifier can be validated using local healthcare provider demographic data.

- Priority Mandatory
- Applicable To UC.131
- 023503 HPI

HPI-I name changed

If the software maintains a record for one or more local healthcare provider individuals and the name associated with a HPI-I is changed in the local system, then the software SHALL validate the HPI-I with the new demographic data. If the validation fails, then the software SHALL raise an alert against the HPI-I.

Priority Conditional

Applicable To UC.131

AdditionalSome software does not allow the name associated with the HPI-I to be editedNotesand therefore cannot be changed.

This requirement enables gateway systems to pass-through HPI-Is without storing data locally.

023504	Not active HPI-O's
	When the software attempts to validate a healthcare provider organisation identifier (HPI-O) via the HI Service, and the HI Service indicates the identifier is resolved or not active (e.g. retired, resolved, deactivated), the software SHALL perform the actions listed in the following table.
	Status of HPI-O
	Active: No action
	Retired: Raise a warning
	Deactivated: Raise a warning
	Resolved: Raise a warning
Priority	Mandatory
Applicable To	UC.306
Additional Notes	It is important the local operator is warned about the status of healthcare identifiers that are not active when the status of those identifiers is retrieved.
023543	Validating HPI-Os The software SHALL be capable of validating HPI-Os via the web services described in the HI Service system interface specification, [TECH.SIS.HI.16, 18, 32 or 34].
Priority	Mandatory
Applicable To	UC.306
Additional Notes	Conformance with this requirement helps provide assurance that the HPI-O is correctly associated with the organisation's demographic information.

023942	Validation when incoming information matches a local patient record
	When a matching local patient record has been found and the incoming IHI and demographic data matches the IHI and demographic data in a local patient record, the local IHI SHALL be validated with the local demographic data against the HI Service unless the IHI and demographic data in that local patient record has been validated against the HI Service within the last 24 hours.
	In situations where it is expected there will be a time delay between receipt of the electronic message/document and its processing, the IHI on the message SHALL be validated at the time of receipt. The message/document SHOULD be processed as soon as possible after receipt.
Priority	Mandatory
Applicable To	UC.320, UC.325
Additional Notes	Non-urgent messages/documents that might be processed days or weeks after receipt (intake queues or waiting lists) require the IHI to be validated immediately upon receipt as a deferred validation of identifiers raises the risk that validation may fail, once the time come for the message to be processed. When incoming data matches that in the local system it doesn't matter which data set is used to validate the IHI but it is important to ensure the information contained in the local system is accurate.
	When the incoming information does NOT match a patient record then requirement 23944 applies.
	The local system will need to conform to UC.10 and/or UC.15 in order to meet the validation expectations stated in this requirement.
023943	Validation when incoming demographic data matches a local patient record and the local IHI is absent
	When a matching local patient record has been found and the incoming demographic data matches the demographic data in a local patient record and the local IHI in the patient record is absent then the software SHALL try to obtain the IHI, using local patient demographics, from the HI Service and store this in the local patient record.
	If the IHI retrieved from the HI Service does not match with the incoming IHI the system SHALL raise an alert.
Priority	Mandatory
Applicable To	UC.320, UC.325
Additional Notes	When incoming patient information does match the local patient record and the local IHI in the patient record is absent then it is important to determine if the local patient record is correct. Alerting the local operator provides an opportunity to ensure the local patient information is correct. The local system will need to conform to UC.10 and/or UC.15 in order to meet
	the validation expectations stated in this requirement.

023944 Store incoming message/document against a local patient record

Before storing an incoming electronic message/document against a local patient record, the incoming IHI and demographic data SHALL be compared with the IHI and demographic data in the local patient record.

If there is not a complete match the software will do all of the following:

- the electronic message/document SHALL NOT be stored against the local patient record
- an alert SHALL be raised
- the software SHALL attempt to validate the IHI in the local patient record.
- Priority Mandatory
- Applicable To UC.325

AdditionalWhen incoming patient information does not exactly match the local patient
record then it is important to determine if the local patient record is correct.
Alerting the local operator provides an opportunity to ensure the local patient
information is correct. A missing or absent IHI in the local system is not
considered a 'mismatched' IHI (see requirement 23943).

Validating the incoming IHI as close as possible to the time of receipt offers the highest chance of validating the incoming IHI.

The local system will need to conform to UC.10 and/or UC.15 in order to meet the validation expectations stated in this requirement.

022000 Revalidation of IHIs using updated identifiers

When the local patient record contains an IHI (of any status or record status) and any one of the following attributes in the patient record are updated in the local system:

- IHI;
- Medicare Card number and/or IRN
- DVA number;

The software SHALL automatically validate the IHI with the updated information, using either the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B web service [TECH.SIS.HI.12].

- Priority Mandatory
- Applicable To UC.015, UC.025

Additional
NotesWhen the above identifiers change it is important to re-affirm the IHI with that
updated identifier. The software must include the updated identifier (which may
not be the IHI) in the web service invocation to ensure the new identifier is
correct for that patient record.

The automatic validation may be triggered immediately, as part of scheduled validations or in line with routine batch searches. The search result is to be treated as any other IHI validation attempt and all requirements related to UC.015 and UC.025 (as appropriate) apply, specifically (but not limited to) #5839, #5847, #16813, #16815.

If multiple identifiers are updated in a single operation (e.g. the Medicare card number and DVA are both updated) then a single web service call is required. The identifier to include in the web service invocation needs to be according to the following priority depending on relevance:

- Medicare Card number and Medicare card number IRN
- Medicare Card number
- DVA number

3.2 Conditional Requirements

This section lists the conditional software conformance requirements associated with the use of healthcare identifiers.

Requirements listed as conditional are conditional within the context of the related business use cases. Support for conditional requirements associated with a business use case is mandatory, subject to the condition.

005801	Individual Healthcare Identifier (IHI) check digit verification upon manual or OCR input
	If the software supports the capture of IHIs via manual or OCR input then the software SHALL ensure that whenever an IHI is captured using manual or OCR input all sixteen digits are included, the identifier is stored as 16 continuous digits (no spaces) and the identifier is validated using the Luhn check digit algorithm (see Appendix D). If the IHI does not include sixteen continuous digits or fails the Luhn check digit algorithm the IHI SHALL NOT be stored and an operator will be alerted.
Priority	Conditional
Applicable To	UC.010, UC.011, UC.015, UC.035
Additional Notes	Performing these checks on an IHI entered manually or by OCR will assist with ensuring the IHI has not been corrupted, modified or contain errors.
005807	Check digit validation of swiped Medicare cards or manually input Medicare card numbers
	If the software supports the swiping of Medicare cards or the manual entry of Medicare card numbers, the software SHALL record the Medicare card number only if it is validated using the check digit algorithm described in Appendix D, otherwise the operator will be alerted of the error.
Priority	Conditional
Applicable To	UC.005, UC.010, UC.011, UC.015
Additional Notes	Searching by the Medicare card number is considered one of the most reliable means of finding a patient's IHI.

005819	 Validation of manually-entered IHIs If the software supports the manual or OCR input of IHIs, the software SHALL validate any IHI which is either manually input or input via optical character recognition technology through a call to the HI Service using either the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12]. The software SHALL validate the IHI immediately upon entry and SHALL alert the local operator if the IHI is assessed as invalid. The software SHALL discard the IHI if it cannot be validated.
Priority	Conditional
Applicable To	UC.010, UC.011, UC.015, UC.035
Additional Notes	Any IHI which is associated with a patient record through either manual or OCR input does not provide any assurance of validity until such time it has been successfully validated with the HI Service. Until this has occurred, any manually/OCR input IHI should not be used in any internal or external communication about the patient's healthcare.
005845	Format for printing an IHI
	If the software prints an IHI it SHALL print the IHI as 4*4*4*4 split string.
Priority	Conditional
Applicable To	UC.010, UC.011, UC.015, UC.035
Additional Notes	Printing the 16-digit IHI string in an easy to read and already accepted and used format reduces the risk of transcription errors.
005915	Capture of date of birth accuracy indicator If the software supports unverified or provisional IHIs, the software SHALL capture and store the date of birth accuracy indicator as detailed in HI Service system interface specification [TECH.SIS.HI.02].
Priority	Conditional
Applicable To	UC.010, UC.011
Additional Notes	The software should allow for the capture and storage of a patient's date of birth accuracy indicator in a format which complies with HI Service system interface specification [TECH.SIS.HI.02]. The storing of date of birth accuracy indicators is a requirement to generate provisional or unverified IHIs.

010038 Validation of manually/OCR-input HPI-Is and HPI-Os

If the software supports the manual or OCR input of healthcare provider identifiers (individual and organisation), the software SHALL ensure that:

- all sixteen digits are included;
- the identifier is stored as sixteen continuous digits (no spaces);
- the identifier is validated using the Luhn check digit algorithm; and
- the sixth digit of the identifier equals the value below:
 - ° '1' for HPI-I, or
 - ° '2' for HPI-O.

If the healthcare provider identifier fails any of the above checks, the software SHALL disallow its storage/use in the local system and alert the operator.

Priority Conditional

Applicable To UC.080, UC.130, UC.131, UC.150, UC.305, UC.306

AdditionalThis requirement mitigates the risk of transcription errors when obtaining HPI-
Is and HPI-Os from channels other than B2B or an electronic message/CDA
document containing these identifiers. Conformance with this requirement
does not however provide any assurance that a correctly input healthcare
provider identifier has been associated with the right healthcare provider
individual/organisation in the local system, which can only be achieved by
validating the healthcare provider identifier with the HI Service, as described
in requirement 10040.

Implementers should note that the sixth digit of the identifier is different from the above for IHIs and the CSP registration numbers:

- '0' for IHIs; and
- '3' for CSP registration numbers.

010040	Validation of healthcare provider identifiers with the HI Service
	If the software supports the manual or OCR input of individual/organisation healthcare provider identifiers, the software SHALL validate any
	individual/organisation healthcare provider identifier thus input through a ca to the HI Service using one or more of the following web services, prior to the identifier being stored and/or used in the local system:
	 The Search for Individual Provider Directory Entry web service, described in the HI Service system interface specification, [TECH.SIS.HI.17] for HPI-Is or
	• The Search for Organisation Provider Directory Entry web service, described in the HI Service system interface specification, [TECH.SIS.HI.18] for HPI-Os. or
	• The Search for Provider Individual Details web service described in the HI Service system interface specification, [TECH.SIS.HI.15 or 31] for HPI-Is or
	• The Search for Provider Organisation Details web service described in the HI Service system interface specification, [TECH.SIS.HI.16 or 32] for HPI-Os or
	 The Search for Provider Individual Batch Asynchronous web service described in the HI Service system interface specification, [TECH.SIS.HI.33] for HPI-Is or
	• The Search for Provider Organisation Batch Asynchronous web service described in the HI Service system interface specification, [TECH.SIS.HI.34] for HPI-Os.
	If the HI Service returns no match or returns any warning or error, the software SHALL alert the local operator and disallow the storage/use of the input identifier in the local system.
Priority	Conditional
Applicable To	UC.080, UC.130, UC.131, UC.150, UC.240, UC.241, UC.305, UC.306
Additional Notes	This requirement provides assurance that the HPI is associated with the organisation's or the individual's demographic information.
010044	Minimum healthcare provider individual identifier details
	If the software maintains a record for one or more local healthcare provider individuals in the local system, the software SHALL be able to capture and store all of the following minimum HPI-I details for each local healthcare provider individual for whom it maintains a record:
	HPI-I number (16-digit number);
	Healthcare Provider Individual's Family Name;
	Healthcare Provider Individual's Given Name (if available);any local healthcare provider ID
Priority	Conditional
Applicable To	UC.130, UC.131
Additional Notes	This requirement will assist healthcare provider organisations in including the necessary individual healthcare provider details in any exchange of patient health information with external healthcare providers.

010809 Matching IHI with local patient demographics

When the software automatically matches an incoming electronic
message/document to a local patient record the software SHALL NOT use the incoming IHI as the sole matching parameter to determine whether a matching patient record exists in the local system. The software SHALL use the incoming IHI as an additional parameter to the incoming patient demographic details to find a matching local patient record.
When a matching patient record is not found the software SHALL alert an operator.

Priority Conditional

Applicable To UC.320, UC.325

AdditionalMatching the incoming IHI and incoming patient demographics togetherNotesagainst local patient records assists in ensuring the incoming electronic
message/document is associated with the correct local patient record.

Alerting an operator of no match in the local system may result in the creation of a new patient record; some systems may have a semi-automated process for a new patient record creation via the receipt of an incoming electronic message/document.

021562 Printing of verified IHIs for newborns

If the software has printing capability then the software SHALL print the IHI number, the IHI number status, the IHI record status and the patient demographic information used to create the IHI at the time the verified IHI is created for a newborn.

- Priority Conditional
- Applicable To UC.011
- AdditionalProviding the IHI and associated identification information to the parent or
guardian allows them to resolve the record of the IHI with the HI Service
operator or to present IHI related documentation to other healthcare
providers particularly where the identifying information for the newborn can
potentially change (e.g. the baby's name).

024562	Recording of newborns not yet named
	If the software stores or can determine the newborn has not yet been named when invoking the webservice [TECH.SIS.HI.26] to create an IHI for a newborn that is not yet named, the software SHALL ensure the "conditionalUse" attribute is passed in the webservice message to the HI Service.
Priority	Conditional
Applicable To	UC.011
Additional Notes	As the newborn does not yet have a name selected by the parents, the software needs to provide a temporary name to the HI Service.
	Where software and local process permits, the name should be stored in accordance with the Australian Standard for Health Care Client Identification AS5017/AS4846, that is, an unnamed newborn is to be registered using the mother's given name in conjunction with the prefix 'Baby of' with the mothers family name stored in the baby's family name.
	The "conditionalUse" attribute is used by the software to inform the HI Service that a temporary name has been provided. See the Name Conditional Use section of TECH.SIS.HI.02 for the correct usage of the "conditionalUse" attribute.

3.3 Recommended Requirements

This section lists the recommended software conformance requirements associated with the use of healthcare identifiers.

Requirements listed as recommended are recommended within the context of the related business use cases. Health software that implements a business use case SHOULD conform to the recommended requirements for that business use case, even though conformance to these requirements is not mandated.

005802	Manual entry of an IHI
	If the software permits the capture of a patient demographic record, the software SHOULD permit the manual entry of an IHI.
Priority	Recommended
Applicable To	UC.005, UC.010, UC.011, UC.015, UC.035
Additional Notes	An IHI may be obtained from the HI Service through other channels such as Health Professional Online Services (HPOS) or a HI Service operator's HI Service Team, or may be provided on an IHI token. This will require the manual entry of the IHI into the software.
005804	Identification of a patient's given and family name
	Where multiple names are recorded for a patient, the software SHOULD identify which of the names recorded is the patient's given and family name. The software SHOULD also indicate which name(s) are associated with the IHI by the HI Service.
Priority	Recommended
Applicable To	UC.005, UC.010, UC.011, UC.015
Additional Notes	Identification of the given and family name is important as queries to the HI Service for an IHI should be made using the patient's given and family name. If the patient has a Medicare card the name on the Medicare card should be used.
	Indicating which name(s) are associated with the IHI by the HI Service assists with revalidation of the IHI.
005809	Capture and storage of one or more other name(s) for a patient The software SHOULD allow for the capture and storage of one or more other name for a patient.
Priority	Recommended
Applicable To	UC.010, UC.011, UC.015, UC.035
Additional Notes	The ability of the software to store at least another name, in addition to the given and family name, for the patient, is likely to increase the probability of successfully retrieving the patient's IHI from the HI Service. A patient's other name does not mean a patient's previous name.

005812	IHI Number search The software SHOULD be able to conduct an IHI Number search using either the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12].
Priority	Recommended
Applicable To	UC.010, UC.011, UC.015
Additional Notes	The ability to search by IHI number significantly increases the likelihood of finding a successful match.
005813	Medicare card search The software SHOULD be able to conduct a search by Medicare card number using the IHI Inquiry Search via B2B web service [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12] as outlined in section 2.5.
Priority	Recommended
Applicable To	UC.010, UC.011, UC.015
Additional Notes	Using the Medicare card number in an IHI search is the most successful way of finding a matching record.
005814	DVA file number search The software SHOULD have the ability to conduct a search by DVA File number and supporting patient demographic information using the IHI Inquiry Search via B2B web service described in the HI Service system interface specification [TECH.SIS.HI.06] or the IHI Batch Searching via B2B [TECH.SIS.HI.12] as outlined in section 2.5.
Priority	Recommended
Applicable To	UC.010, UC.011, UC.015
Additional Notes	The IHI Inquiry Search via B2B and the IHI Batch Searching via B2B system interface specifications outline the different types of searches that can be conducted to retrieve an IHI. The ability to search by DVA File number would significantly increase the likelihood of finding a successful match.

005045	
005815	Address search The software SHOULD be able to conduct an Address search which includes the recommended supply of address search parameters using either the IHI Inquiry Search via B2B or the IHI Batch Searching via B2B web service described in the HI Service system interface specifications [TECH.SIS.HI.06 and TECH.SIS.HI.12] as outlined in section 2.5.
Priority	Recommended
Applicable To	UC.010, UC.011, UC.015
Additional Notes	The IHI Inquiry Search via B2B and the IHI Batch Searching via B2B system interface specifications outline the detailed search that can be conducted to retrieve an IHI.
	The ability to search by parameters other than the IHI number, Medicare Card number and DVA File number would provide additional flexibility in conducting IHI searches and increase the likelihood of locating a successful match.
005818	Resubmit search with modified search criteria
	The software SHOULD allow the resubmission of the search with amended details when the initial search, as outlined in section 2.5, for an IHI returns no match.
Priority	Recommended
Applicable To	UC.010, UC.011, UC.015, UC.035
Additional Notes	Software will be more successful in finding a matching record in the HI Service if a new search is submitted with a different combination of patient details.
005824	Retention of patient's previous names The software SHOULD retain a patient's previous name (family, given and other name) in the patient record history when a new name is recorded for the patient.
Priority	Recommended
Applicable To	UC.015, UC.035
Additional Notes	Retaining a patient's previous name assists healthcare providers to conduct successful IHI searches where the patient's name may have changed over time such as in cases of marriage, legal name change and patient presenting under other identities. A patient's previous name does not mean a patient's other name.

005830	Storage of different types of identifiers
	The software SHOULD be able to store identifiers of different types in a patient's record. The usage of each identifier SHOULD be clear and unambiguous.
Priority	Recommended
Applicable To	UC.010, UC.011, UC.015, UC.035
Additional Notes	Patients may present to a healthcare provider using different identifiers such as an IHI, Medicare card numbers/IRNs, and DVA file numbers over time. The storage of these identifiers would greatly assist in ascertaining the identity of a patient. Systems may also need local and regional identifiers and though these are not used in the HI service, they are required for local use and should be consistently maintained to support quality identification practices.
005831	Automated reading of Medicare and DVA cards The software SHOULD support the entry of a Medicare or DVA card via a card reader.
Priority	Recommended
Applicable To	UC.005, UC.015
Additional Notes	An automated card reader eliminates the need to manually enter card/token numbers, thereby reducing the likelihood of transcription errors and misidentification of healthcare recipients.
005832	Background process IHI search
	When invoking the HI Service B2B channel, the software SHOULD do so as a background process.
Priority	Recommended
Applicable To	UC.010, UC.011
Additional Notes	Using background processes enables the software to be used by an operator while the software concurrently accesses the HI Service. This prevents delays in accessing the HI Service from affecting the delivery of healthcare.
005844	IHI printed as barcode If an IHI is printed out the software SHOULD print the IHI as a barcode using the international standard for barcode symbology [ISO24723]. The specific barcode symbology is yet to be defined.
Priority	Recommended
Applicable To	UC.010, UC.011, UC.015
Additional Notes	Entering an IHI by scanning a barcode is preferred rather than manually entering an IHI, as scanning reduces the risk of transcription errors.

005848	 Pre-populate first six digits of the healthcare identifier The software SHOULD enable the display of the first five digits of the healthcare identifier and are the same for all healthcare identifiers in Australia – 8003 6 – and the sixth digit varies depending on the type of healthcare identifier as follows: '0' for IHIs, '1' for HPI-Is, '2' for HPI-Os. CSP registration numbers share the same characteristics as the HI Service healthcare identifiers, but the sixth digit is '3'. GSO registration numbers share the same characteristics as the HI Service healthcare identifiers, but the sixth digit is '4'.
Priority	Recommended
Applicable To	UC.010, UC.011, UC.015, UC.080, UC.130, UC.131, UC.150, UC.240, UC.241, UC.305, UC.306
Additional Notes	The first six digits of the IHI remain the same for all IHIs in Australia.
005877	Batch refresh The software SHOULD allow for a refresh of IHIs on a batch basis.
Priority	Recommended
Applicable To	UC.025
Additional Notes	Refreshing IHIs on a batch basis is an important mechanism for maintaining data quality as it permits the retrieval of the latest IHI number status and IHI record status.
005884	Identification of operators in the local system User account information stored by the software SHOULD include the ability to record the full name of the operator.
Priority	Recommended
Applicable To	UC.045
Additional Notes	Storing the full name of the operator and assists a healthcare provider to comply with clause 12 of the HI regulations [HIREG2020].
005901	Record potential duplicate IHIs The software SHOULD produce a record of potential duplicate IHIs.
Priority	Recommended
Applicable To	UC.035
Applicable 10	

Additional Notes	The ability of the software to automatically generate records of potential duplicate IHIs would greatly assist in the prompt investigation and resolution of duplicates.
005903	 Notification of date of death The software SHOULD use the B2B channel to notify the HI Service of the patient's date of death by the using one of the following web services: Update Provisional IHI via B2B [TECH.SIS.HI.03] if the patient's record was associated with a provisional IHI in the local system or Update IHI via B2B [TECH.SIS.HI.05] if the patient's record was associated with a verified or unverified IHI in the local system.
Priority	Recommended
Applicable To	UC.015
Additional Notes	Services Australia receives regular data feeds from the States and Territories' Registries of births, deaths and marriages after the facts of death have been established and as such, the notification of death to Medicare Australia is not contingent on healthcare providers notifying the agency. A condition of the federal funding of private healthcare facilities is that these must advise Medicare Australia of their patients' date of death.
005917	Record of operator
	The software SHOULD keep a retrievable record of each operator who accessed a healthcare identifier from the HI Service; where the identifier may have been accessed from a B2B interface.
Priority	Recommended
Applicable To	UC.010, UC.011, UC.015, UC.025
Additional Notes	The requirement assists healthcare providers in complying with clause 12 of the HI regulations [HIREG2020]. The intent of this requirement is for the software to retain enough traceability information to enable the verification that only authorised employees access the HI Service. In the context or UC.011, accessing an IHI for a newborn involves the creation by the HI Service of an IHI upon request.

008167	 Recording IHI source upon IHI assignment and update When an IHI is stored or updated the software SHOULD record the source of the IHI as being one of: HI Service B2B channel electronic message manual entry (including OCR)
Priority	Recommended
Applicable To	UC.010, UC.011, UC.015, UC.025, UC.035
Additional Notes	An IHI obtained directly from the HI Service is more likely to be trusted than an IHI received in an electronic message from another healthcare provider, which is more likely to be trusted than an IHI entered either manually or via OCR. Knowing the source of an IHI allows an operator to make decisions about the need for validating an IHI. A batch assignment of IHI's is considered to use the B2B channel.
010039	Manual entry of healthcare provider identifiers The software SHOULD support the manual entry of all types of healthcare provider identifiers (HPI-Is, HPI-Os).
Priority	Recommended
Applicable To	UC.130, UC.131, UC.305
Additional Notes	Automated input of healthcare identifiers in local systems is the preferred method. However, in the early stages of HI implementations, some HPI-Os and HPI-Is will be captured manually until developers transition to automated processes for all types of healthcare identifiers.

010043	Ability to disallow use of healthcare provider identifiers from a point in time
	If the software maintains a system record or a system setting for the local healthcare provider identifier organisation(s), HPI-O(s), and the links between the HPI-O(s) and the local healthcare provider identifier individual(s), HPI-I(s), the software SHOULD be able to disallow the use of relevant healthcare provider identifiers by the local system from a present or future point in time via:
	 One or many specific local organisation healthcare provider identifiers (HPI-Os) and/or
	 One or many specific local individual healthcare provider identifier (HPI- I)/local organisation healthcare provider identifier (HPI-O) links.
	Retrospective references to healthcare provider identifiers which were valid at the time of their use by the local system SHOULD not be impeded by the fact that the HPI-O(s) and/or the HPI-O and HPI-I link(s) were subsequently disallowed from use.
Priority	Recommended
Applicable To	UC.080, UC.130, UC.131, UC.150
Additional Notes	Local healthcare provider organisations designate those organisations that are responsible for the governance of the local system.
	Local healthcare provider individuals designate those healthcare provider individuals that provide healthcare on behalf of the local healthcare provider organisations.
	The business scenarios that may prompt the activation of the functionality described in this requirement include either:
	 a change in the organisational structure of a healthcare provider group of organisations due to merger and/or acquisition, demerger etc; or
	 resignation or retirement of a local healthcare provider individual.
	This requirement assists healthcare provider organisations in ensuring that any e-health messages and/or clinical documents include only those identifiers that are valid and current when these e-health messages/clinical documents

are generated.

Support of searches for healthcare provider identifiers in the HI Service
 If the software supports the search for Individual and Organisation Provider Directory Entries via the B2B channel using the Healthcare Provider Directory - Search for Individual Provider Directory Entry [TECH.SIS.HI.17] or Healthcare Provider Directory – Search for Organisation Provider Directory Entry [TECH.SIS.HI.18] web services respectively, described in the HI Service system interface specifications [TECH.SIS.HI.17/18], the software SHOULD be able to: display all the matches returned in the HI Service response; enable the selection of a single HPI-I/HPI-O record by the operator when multiple matches have been returned in the HI Service response; and resubmit the search with modified search criteria.
Recommended
UC.240, UC.241
Inclusion in the HPD occurs only where healthcare provider organisations/individuals have given explicit consent to opt-in. Only those healthcare provider identifiers which have an 'active' number status can be retrieved via the B2B channel.
A search for a HPI-I and HPI-O may return up to 50 matches.
Ensuring the recipient's HPI-I(s) is/are associated with the recipient's HPI-O in an incoming electronic message/document
When the recipient's HPI-I(s) is/are provided within the electronic message/document the software SHOULD ensure the recipient's HPI-I(s) are associated with the recipients HPI-O.
If the recipient's HPI-Is contained within the electronic message/document are not associated with the recipient's HPI-O then:
 the electronic message/document SHOULD NOT be automatically stored against any patient record;
 the HPI-I(s) SHOULD NOT be stored outside of the electronic message/document; and
 an alert SHOULD be raised for operator intervention.
Recommended
UC.325
Ensuring the electronic message/document has been sent to the correct recipient allows for the timely correction of misaddressed electronic message/documents.
Operator intervention may be required to ascertain if the electronic message/document is meant for a specific clinician and should be referred onwards, or whether it is for a service and the clinician identified is not necessarily relevant even though supplied.

016836	 Minimum healthcare provider individual identifier details If the software maintains a record of your organisational hierarchy in the local system for one or more local seed and/or network healthcare provider organisations, the software SHOULD be able to capture and store the following minimum HPI-O details for each local healthcare provider organisation record: HPI-O number (16-digit number); Healthcare Provider organisation name associated with the HPI-O; and an address.
Priority	Recommended
Applicable To	UC.150
Additional Notes	Storing the HI Service field level identifiers in addition to the minimum HPI-O details above, will assist in updating the HI service HPI-O records in the future. Refer to TECH.SIS.14 and TECH.SIS.16 for further information. Consideration should be given to also storing a start date and end date on a per service basis to facilitate localised validation of local provider organisations.
018885	Inclusion of IHI status information in an electronic message/document The software SHOULD include the IHI Record Status and IHI Status in the electronic message/document wherever possible.
Priority	Recommended
Applicable To	UC.320, UC.330

018886 Inclusion of healthcare identifiers date last validated information in an electronic message/document

The software SHOULD include the date and time when the healthcare identifier was last validated in the electronic message/document wherever possible.

Priority	Recommended

Applicable To UC.320, UC.330

AdditionalThe inclusion of a date/time stamp for the most recent IHI validation providesNotespredictability to the message receiver in terms of the sender's processes and
rigour.The current specifications for CDA documents and HL7 V2.x messages do not

The current specifications for CDA documents and HL7 V2.x messages do not support this functionality.

021557 Searching for an IHI prior to creating an IHI

If the software can perform address searches (see section 2.5) then prior to creating a verified IHI for a newborn via the B2B web service defined in [TECH.SIS.HI.26], the software SHALL first perform a search of the HI Service for the newborns verified IHI and prevent the invocation of the web service defined in [TECH.SIS.HI.26] for creating an IHI for a newborn if a verified IHI is found.

The historical search option SHALL NOT be used.

Priority Recommended

Applicable To UC.011

AdditionalTo avoid potential duplicate IHI's being assigned to a newborn, it is importantNotesto search for an existing IHI prior to creating a new IHI as errors in process or
workflow may result in an IHI being assigned to a newborn unknowingly.
The permissible search types outlined in section 2.5 in this document infer

that the search described in this requirement will be according to search type (4). This search type requires the newborns family name, given name, date of birth, sex and address to be known.

023945	Validating recipients Healthcare Provider Organisation information in an incoming electronic message/document						
	When the recipients HPI-O is provided within the electronic message/document the receiving software SHOULD ensure the electronic message/document contains a HPI-O that is relevant to the receiving organisation.						
	If the recipient's HPI-O does not match the recipient HPI-O in the electronic message/document then the electronic message/document SHOULD NOT be stored against any patient record, the HPIs SHOULD NOT be stored outside of the electronic message/document and an alert SHOULD be raised for operator intervention.						
Priority	Recommended						
Applicable To	UC.325						
Additional Notes	nsuring the electronic message/document has been sent to the correct ecipient allows for timely correction of misaddressed electronic nessage/documents.						
021559	Recording of newborns not yet named						
	When invoking the web service defined by [TECH.SIS.HI.26] to create an IHI for newborns that are not yet named the software SHALL include the mother's given name in conjunction with the prefix 'Baby of' (e.g. 'Baby of Fiona') in the given name field in accordance to AS 5017 or AS 4846, subject to requirement 21560.						
Priority	Recommended						
Applicable To	UC.011						
Additional Notes	None.						
021560	Recording unnamed newborns of a multiple birth						
	When invoking the web service defined by [TECH.SIS.HI.26] to create IHIs for newborns of a multiple birth that are not yet named, the software SHALL include the mother's given name plus a reference to the multiple birth in accordance with AS 4846.						
	The birth order indicated in the name SHALL reflect the birth order provided in the invocation (e.g. twin 2 has birth order of 2 etc.) and the birth plurality reflects the multiple birth.						
Priority	Recommended						
Applicable To	UC.011						
Additional Notes	The Australian Standard for Person and Provider Identification in Healthcare, AS 4846 recommends the use of terms 'twin 1 of'; 'twin 2 of'; 'trip 1 of'; 'trip 2 of' et al and this requirement enforces the use of this terminology. The priority of this requirement may be changed from recommended to mandatory in on 1 July 2016.						

3.4 Unverified and Provisional IHIs

The HI Service does not provide Unverified or Provisional IHIs but may do so in the future. Software may implement these requirements in anticipation but may require review if these requirements are updated prior to the introduction of unverified/provisional IHIs in the HI Service.

005810	Provisional IHI Configuration Options
	If the software supports provisional IHIs the software SHALL support the following configuration options to control the creation and usage of provisional IHIs within the local system:
	 Provisional IHIs are never created and are never associated with patient records;
	 Provisional IHIs are associated with patient records and may also be created at the discretion of an operator.
Priority	Conditional
Applicable To	UC.010, UC.011, UC.015, UC.025, UC.035
Additional Notes	The configuration options ensure the healthcare provider has control over the creation of provisional IHIs.
005811	Unverified IHIs Configuration Options
005011	
	If the software supports unverified IHIs, the software SHALL support the following configuration options to control the creation and usage of unverified IHIs within the local system:
	 unverified IHIs are never created and are never associated with patient records;
	 unverified IHIs are associated with patient records and may also be created at the discretion of an operator.
Priority	Conditional
Applicable To	UC.010, UC.011, UC.015, UC.025, UC.035
Additional Notes	The configuration options ensure the healthcare provider has control over the creation of unverified IHIs.
005836	Prohibition of uncontrolled system-initiated creation of provisional and
000000	unverified IHIs
	If the software supports unverified or provisional IHIs the software SHALL create a provisional or unverified IHI only by the request of the local operator. The software SHALL NOT support automatic creation of a provisional or unverified IHI.
Priority	Conditional
Applicable To	UC.010, UC.011, UC.015
Additional Notes	Uncontrolled creation of unverified and provisional IHIs will erode the utility of provisional and unverified IHIs.

005842	Printing of unverified IHIs
	If the software supports unverified IHIs, when the unverified IHI is created, the software SHALL print the IHI number, the IHI number status, the IHI record status and the patient demographic information used to create the IHI and supporting documentation.
Priority	Conditional
Applicable To	UC.010, UC.011, UC.015
Additional Notes	Providing the unverified IHI and associated identification information to the patient allows them to resolve the record status of the IHI with the HI Service operator or to present IHI related documentation to other healthcare providers.
005874	Transmission of demographic updates for unverified IHIs
	If the software supports unverified IHIs and the patient record is associated with an Unverified IHI and the patient's demographic details are updated, the software SHALL have the ability to transmit the updated demographic details to the HI Service using the Update IHI via B2B web service [TECH.SIS.HI.05].
Priority	Conditional
Applicable To	UC.015, UC.035
Additional Notes	Healthcare providers may search for a patient's IHI using his/her demographic information, and so it is important to update the HI Service of any changes to this information so that a search for an IHI is more likely to find a patient's healthcare identifier.
005902	Notification of resolved provisional IHI
	If the software supports provisional IHIs, it SHALL notify the HI Service of the resolution of a provisional IHI by doing one of the following:
	for the resolution of a provisional IHI by creation of an unverified IHI, the software SHALL notify the HI Service via the B2B channel using the Resolve Provisional IHI - Create Unverified IHI via B2B web service [TECH.SIS.HI.09];
	for the resolution of a provisional IHI by merge with an existing verified or unverified IHI, the software SHALL notify the HI Service via the B2B channel using the Resolve Provisional IHI - Merge Records via B2B web service [TECH.SIS.HI.08].
Priority	Conditional
Applicable To	UC.035
Additional Notes	Notifying the HI Service via the B2B channel is the most effective way of resolving a provisional IHI. The timely notification of resolved provisional IHIs also enhances data quality within the HI Service.

006104	Enforce search before creation of unverified IHIs If the software supports the creation of unverified IHIs, the software SHALL request the HI Service to create an unverified IHI for a patient only after performing an IHI search as outlined in section 2.5, and obtaining no match.
Priority	Conditional
Applicable To	UC.010, UC.011, UC.015
Additional Notes	The benefits of using healthcare identifiers are obtained through the use of patients' existing IHIs. The uncontrolled proliferation of unverified IHIs may undermine the realisation of the benefits derived from the usage of verified IHIs. The HI Service will prevent the creation of an unverified IHI if the unverified demographic details match a person whose demographic details are already stored in the HI Service.
008218	Non-support for provisional IHIs
	If the software does not support provisional IHIs then the software SHALL NOT store any IHI provided by the HI Service with a provisional record status. In addition, the software SHALL raise an alert if an IHI is received with a provisional record status.
Priority	Conditional
Applicable To	UC.010, UC.011, UC.015, UC.035
008219	Non-support for unverified IHIs If the software does not support unverified IHIs, then the software SHALL NOT store any IHI provided by the HI Service with an unverified record status. In addition, the software SHALL raise an alert if an IHI is received with an unverified record status.
Priority	Conditional
Applicable To	UC.010, UC.011, UC.015, UC.025, UC.035

016837 Actions for when validation of an unverified or provisional IHI returns a resolved information message and a different IHI

If the software stores unverified or provisional IHIs and an unverified or provisional IHI is validated and the HI Service returns a resolved message and a different IHI, the software SHALL NOT store that new IHI unless it can also be validated with the existing patient demographics in the local system.

If the new IHI cannot be validated with the local patient demographic data then an alert SHALL be raised so that an operator can determine what action SHOULD be taken.

The new IHI number, IHI status and IHI record status SHALL be stored in the patient record if the IHI number can be validated using local patient demographic data. The old IHI SHALL be moved to the patient record history with a resolved status regardless the validity of the new IHI.

Priority Recommended

Applicable To UC.015, UC.025, UC.035

AdditionalThe HI Service will return a new IHI in addition to a message stating that theNotesprevious IHI has been resolved. This may occur if the HI Service operator has
determined that the IHI is either a duplicate or replica.

The new IHI will be returned with the patient demographic data used in the original IHI search and this may not reflect the data stored against the new IHI record.

The return of a provisional IHI that differs from an original provisional IHI should never occur and would require resolution via the HI Service operator. The receipt of a new IHI triggers the HI software conformance requirements that apply to the inclusion of an IHI in a patient record.

There remain unanswered questions about the application of provisional and unverified IHIs in messaging and documents. Messaging use cases have been excluded from this requirement accordingly.

016838 Rules for when the validation of an active, unverified or provisional IHI returns the same IHI number but with a different IHI record status

If the software stores unverified or provisional IHIs and either an active unverified or provisional IHI is validated and the HI Service returns the same IHI number but with a different IHI record status, either the new IHI record status and IHI status SHOULD be stored in the patient record or an alert SHOULD be raised, according to the following table.

Record status of the original IHI is unverified

Record status of the IHI returned from the HI Service:

Verified: The new record status SHALL be stored

Unverified: No change

Provisional: An alert SHALL be raised

Record status of the original IHI is provisional

Record status of the IHI returned from the HI Service: Verified: The new record status SHALL be stored Unverified: The new record status SHALL be stored Provisional: No change

Priority Recommended

Applicable To UC.015, UC.025, UC.035, UC.320, UC.330

AdditionalWhen an IHI is validated the HI Service would not be expected to return a
record status that is 'lower' than the locally stored record status. If this does
occur an alert is raised and the new record status may or may not be stored in
the local patient record, depending on the design of the software or local
policy. The alert requires operator intervention to confirm that the change is
legitimate, most likely involving a query to the HI Service operator.

A changed record status may result when the software invokes the following functions:

- Resolve Provisional IHI Merge Records via B2B web service [TECH.SIS.HI.08];
- Resolve Provisional IHI Create Unverified [TECH.SIS.HI 09].

A changed record status may apply on Update IHI via B2B [TECH.SIS.HI.05] for an unverified IHI where the HI Service returns an information message rejecting the update on the basis of a match in the HI Service.

The local system will need to conform to UC.10 and/or UC.15 in order to meet the validation expectations stated in this requirement.

016839	Rules for when the validation of an active unverified or provisional IHI returns the same IHI number and same IHI record status but with a different IHI status
	If the software stores unverified or provisional IHIs and either an active unverified or provisional IHI is validated and the HI Service returns the same IHI number but with a different IHI status, the software SHALL either store the new status in the patient record or raise a warning or alert, according to the following table.
	Original record status is unverified
	IHI status returned from the HI Service:
	Active: No change
	Deceased: A warning SHALL be raised
	Retired: The new status SHALL be stored and a warning SHALL be raised
	Expired: The new status SHALL be stored
	Original record status is provisional
	IHI status returned from the HI Service:
	Active: No change
	Deceased: A warning SHALL be raised
	Retired: An alert SHALL be raised
	Expired: The new status SHALL be stored
Priority	Recommended
Applicable To	UC.015, UC.025, UC.035, UC.320, UC.330
Additional Notes	When the HI Service returns a deceased IHI status the patient's death is not confirmed by the Registry of births/deaths/marriages. Depending on the local policy and software design, the locally stored status may change to deceased or remain active until the HI Service returns a retired status, which is confirmation the patient is deceased.
	A retired status should not occur for a provisional IHI and would require contacting the HI Service operator. A system retrieving an expired provisional IHI may immediately create a new IHI after storing the expired IHI status on the old IHI.
	The local system will need to conform to UC.10 and/or UC.15 in order to meet the validation expectations stated in this requirement.

016840 Rules for when the validation of a deceased unverified or provisional IHI returns the same IHI number and same record status but with a different IHI status

If the software stores unverified or provisional IHIs and the validation of a deceased IHI returns the same IHI but with a different number status, the software SHALL either store the new status in the patient record or an alert SHALL be raised, according to the following table.

Original status of deceased IHI is unverified

IHI status returned from the HI Service:

Active: An alert SHALL be raised

Deceased: No change

Retired: The new status SHALL be stored

Expired: The new status SHALL be stored

Original record status is provisional

IHI status returned from the HI Service:

Active: An alert SHALL be raised

Deceased: No change

Retired: An alert SHALL be raised

Expired: The new status SHALL be stored

Priority Conditional

Applicable To UC.015, UC.025, UC.035, UC.320, UC.330

AdditionalWhen the HI Service returns a deceased status the patient's death is notNotesconfirmed by the Registry of birth/death/marriages. When the patient's death
is confirmed the IHI status is changed to retired. If the deceased status was
created in error the IHI status would change from deceased back to active.
Local operator intervention is required to manage the status change in the
local software, so an alert should be raised. This alert should be regarded as
serious and requiring attention in the short term.

The local system will need to conform to UC.10 and/or UC.15 in order to meet the validation expectations stated in this requirement.

Appendix ABusiness use cases and associated conformancerequirements

The table below lists the healthcare identifiers business use cases being covered by this document and the applicable mandatory, conditional, and recommended conformance requirements.

Business Use Case No	Business Use Case Description	Mandatory Conformance Requirements	Conditional Conformance Requirements	rmance Conformance				
UC.005	Search for patient health record	5808 5807 5802, 5804, 5						
UC.010	Register patient	5805, 5808, 5817, 5820, 5839, 5843, 5847, 5873, 5875, 6077, 8028, 8526	5801, 5807, 5810, 5811, 5819, 5836, 5842, 5845, 5915, 6104, 8218, 8219	5802, 5804, 5809, 5812, 5813, 5814, 5815, 5818, 5830, 5832, 5844, 5848, 5917, 8167				
UC.011	Request verified IHI for a newborn	5805, 5808, 5817, 5820, 5843, 5847, 5873, 5875, 6077, 8028, 8526, 21554, 21555, 21556, 21558	5802, 5804, 5809, 5812, 5813, 5814, 5815, 5818, 5830, 5832, 5844, 5848, 5917, 8167, 21557, 21559, 21560					
UC.015	Update patient health record	5805, 5808, 5820, 5839, 5843, 5847, 5872, 5873, 5875, 6077, 6105, 8028, 8526, 16813, 16814, 16815, 17421, 22000	5801, 5807, 5810, 5811, 5819, 5836, 5842, 5845, 5874, 6104, 8218, 8219, 16837, 16839, 16840	5802, 5804, 5809, 5812, 5813, 5814, 5815, 5818, 5824, 5830, 5831, 5844, 5848, 5903, 5917, 8167, 16838				
UC.025	Bulk update of IHI details	5805, 5820, 5839, 5847, 5873, 5875, 6077, 8028, 8526, 16813, 16814, 16815, 17421, 22000	5810, 5811, 8219, 16837,16839, 16840	5877, 5917, 8167, 16838				
UC.035	Merge patient health records	5805, 5820, 5843, 5847, 5873, 5875, 5906, 6077, 8028, 8526, 16813, 16814, 16815, 17421	5801, 5810, 5811, 5819, 5845, 5874, 5902, 8218, 8219, 16837, 16839, 16840	5802, 5809, 5818, 5824, 5830, 5901, 8167, 16838				
UC.045	Logon to software system	None	None	5884				
UC.080	Maintain HPI-O details	5873	10038, 10040	5848, 10043				
UC.130	Validate HPI-I	5873, 8028, 10041	10038, 10040, 10044	5848, 10039, 10043				
UC.131	Validate HPI-I via the HI Service	5873, 8028, 10041, 23502, 23503	10038, 10040, 10044	5848, 10039, 10043				

Support for conditional requirements is mandatory, subject to a stated condition.

Business Use Case No	Business Use Case Description	Mandatory Conformance Requirements	Conditional Conformance Requirements	Recommended Conformance Requirements
UC.150	Register Network HPI-O	8028, 10042	10038, 10040	5848, 10043, 16836
UC.240	Search for HPI-Is in HI Service HPD	5873, 8028	10040	5848, 10089
UC.241	Search for HPI-Os in HI Service HPD	5873, 8028	10040	5848, 10089
UC.305	Validate HPI-O	5873, 8028, 10042	10038,10040	5848,10039
UC.306	Get HPI-O status	5873, 8028, 23504, 23543	10038, 10040	5848
UC.320	Requesting an electronic clinical document	5873, 10041, 10042, 21561, 10618, 16813, 16814, 16815, 16832, 16835, 17421, 17573, 23942, 23943	10809, 16839, 16840	16838, 18885, 18886
UC.325	Receiving an electronic message	5873, 10041, 10042, 16835, 17573, 23942, 23943, 23944	10809	23945, 16810
UC.330	Sending an electronic message	5873, 10041, 10042, 21561, 10618, 16813, 16814, 16815, 16832, 17421, 17571, 18884	16839, 16840	16838, 18885, 18886

Appendix B HI Service web services

The table below lists HI Service web services and the use cases software must conform to before access to the respective web service is granted. Software needs to conform to one or more use cases for each target web service.

SIS	HI Service web service	Related business use case(s)
Tech.sis.HI.5	Update IHI via B2B	UC.015, UC.035
Tech.sis.HI.6	IHI Inquiry Search via B2B	UC.010, UC.015, UC.035
Tech.sis.HI.12	Consumer Search IHI Batch Synchronous	UC.010, UC.015, UC.025, UC.035
Tech.sis.HI.13	Manage Provider or Administrative Individual Details	N/A
Tech.sis.HI.14	Manage Provider Organisation Details	N/A
Tech.sis.HI.15	Read Provider or Administrative Individual Details	N/A
Tech.sis.HI.16	Read Provider Organisation Details	N/A
Tech.sis.HI.17	Healthcare Provider Directory - Search for Individual Provider Directory Entry	UC.130, UC.240
Tech.sis.HI.18	Healthcare Provider Directory - Search for Organisation Provider Directory Entry	UC.241, UC.305
Tech.sis.HI.19	Healthcare Provider Directory - Manage Provider Directory Entry	UC.080, UC.150
Tech.sis.HI.22	Read Reference Data	N/A
Tech.sis.HI.24	Notify of Duplicate IHI via B2B	UC.010, UC.015, UC.035
Tech.sis.HI.25	Notify of Replica IHI via B2B	UC.010, UC.015, UC.035
Tech.sis.HI.26	Create Verified IHI for Newborns	UC.011
Tech.sis.HI.30	Consumer Search IHI Batch Asynchronous	UC.010, UC.015, UC.025, UC.035
Tech.sis.HI.31	Search for Provider Individual	UC.131
Tech.sis.HI.33	Search Provider Individual Batch Asynchronous	UC.131
Tech.sis.HI.32	Search for Organisation Details	UC.306
Tech.sis.HI.34	Search for Provider Organisation batch Asynchronous	UC.306

The need to conform to the above use cases is in addition to any notice of connection tests required by the HI Service operator.

Appendix C Use case applications

The table below lists the HI CCA use cases that have conformance requirements and the name of each use case.

Management of Individual Healthcare Identifiers (IHI)
UC.005 - Search for a patient health record
UC.010 - Register patient
UC.011 - Request verified IHI for newborn
UC.015 - Update patient health record
UC.025 - Bulk update of IHI details
UC.035 - Merge patient health records
UC.045 - Logon to software system
Management of Healthcare Provider Identifiers (HPI-I/HPI-O)
UC.080 - Maintain HPI-O details
UC.130 – Validate HPI-I
UC.131 - Validate HPI-I via the HI Service
UC.150 - Register network HPI-O
UC.240 - Search for HPI-Is in HI Service HPD
UC.241 - Search for HPI-Os in HI Service HPD
UC.305 – Validate HPI-O
UC.306 - Get HPI-O status
Identifiers used in a point-to-point and point-to-share messaging context
UC.320 – Request an electronic clinical document
UC.325 – Receive an electronic clinical document
UC.330 – Send an electronic clinical document

Appendix D Luhn check algorithm

The Luhn formula for computing modulus-10 "double-add-double" check digits is described in Annex B of the standard for identification card numbering system [ISO7812-1].

The check digit is calculated on all of the digits of the HI.

The following steps are involved in this calculation:

- 1 Double the value of alternate digits beginning with the first right-hand digit (low-order).
- 2 Add the individual digits comprising the products obtained in Step 1 to each of the unaffected digits in the original number.
- 3 Subtract the total obtained in Step 2 from the next higher number ending in 0 (this is the equivalent of calculating the "tens complement" of the low-order digit (unit digit) of the total). If the total obtained in Step 2 is a number ending in zero (30, 40, etc.), the check digit is 0.

EXAMPLE

Personal Identifier without check digit: 612345 123456789

Identifier:	6	1	2	3	4	5	1	2	3	4	5	6	7	8	9
Double alternate digits:	x2		x2		x2		x2		x2		x2		x2		x2
	12	1	4	3	8	5	2	2	6	4	10	6	14	8	18
Add individual digits:	1+2	+1	+4	+3	+8	+5	+2	+2	+6	+4	+1+0	+6	+1+4	+8	+1+8

Total = 67

Next higher number ending in 0 = 70

70 – 67 = 3

Check digit = 3

Personal Identifier with check digit: 612345 123456789 3

Appendix E Medicare card number check algorithm

E.1 Medicare card number format

The Medicare card number comprises:

- Eight digits;
- A check digit (one digit); and
- An issue number (one digit).

Note: the first digit of the Medicare card number should be in the range 2 to 6.

- E.2 Medicare card number check digit calculation
 - Calculate the sum of: ((digit 1) + (digit 2 * 3) + (digit 3 * 7) + (digit 4 * 9) + (digit 5) + (digit 6 * 3) + (digit 7 * 7) + (digit 8 * 9)) where digit 1 is the highest place value digit of the Medicare card number and digit 8 is the lowest place value digit of the Medicare card number.

Example: for Medicare card number '2123 45670 1', digit 1 is 2 and digit 8 is 7.

- 2 Divide the calculated sum by 10.
- 3 The check digit is the remainder.

Example: For Medicare card number 2123 4567.

- 4 (2) + (1 * 3) + (2 * 7) + (3 * 9) + (4) + (5 * 3) + (6 * 7) + (7 * 9) = 170
- 5 Divide 170 by 10. The remainder is 0.
- 6 The check digit for this Medicare number is 0.

Acronyms

Acronym	Description
CCA	Compliance, Conformance, and Accreditation
CSP	contracted service provider
GSO	general supporting organisation
н	Healthcare Identifiers (meaning a national healthcare identifier of the HI Service)
ІНІ	Individual Healthcare Identifier (meaning national healthcare identifier of the HI Service)
HPD	HI Service Healthcare Provider Directory
НРІ	Healthcare Provider Identifier
HPI-I	Healthcare Provider Identifier for Individuals
HPI-O	Healthcare Provider Identifier for Organisations
ID	identity
NEHTA	National E-Health Transition Authority
ОМО	organisation maintenance officer
RO	responsible officer

Glossary

For the purpose of this document, the following definitions apply.

Term	Meaning
Active IHI number status	An IHI has an active status when it does not have a date of death on the record, the age is not greater than 130 years, and the number status is not expired, retired, resolved, or deceased.
Alert	An electronic notification of an exception or event with immediate action required. An alert may be displayed on a user interface and/or communicated to a responsible party through other means (e.g. via a pager, email or mobile phone). An alert will persist until the underlying exception or event is acknowledged and/or addressed, or the operator explicitly cancels the alert.
	An unresolved alert persists until the initial error condition for that alert has been addressed. Acknowledging an alert is not resolving an alert. An action or event must take place to address the initial reason for the alert.
B2B	Business-to-business. B2B refers to the web services channel used by software to access the HI Service.
Background process	Any technique that manages computer resources so that selected system activities are transparent and non-obtrusive to the local operator.
Contracted service provider	Contracted service provider, of a healthcare provider, means an entity that provides information technology services relating to the communication of health information; or health information management services to the healthcare provider under a contract with the healthcare provider [HIACT2021].
Conformance requirements	Requirements, indicated by the word 'SHALL' or 'SHALL NOT', which are mandatory for conformance with this specification and recommendations, indicated by the word 'SHOULD' or 'SHOULD NOT', which provide best practice solutions but are not mandatory.
Deceased IHI number status	A deceased status is an indication that another healthcare provider has reason to believe the individual to whom an IHI is assigned has died.
	An IHI has a deceased status when there is a date of death present on the record, but it has not yet been matched with Fact of Death Data from Births, Deaths and Marriages Registries and age is not greater than 130 years.

Term	Meaning		
Duplicate IHI		d has been assigned two different IHIs, the IHIs are referred represents an error condition requiring active management.	
	The diagram depicts potential duplicate IHIs.		
	IHI #1	IHI #2	
	<u>ê</u> ê	?	
	Patient A	Patient A?	
	-	licate IHI' is the same definition used by the HI Service. s document, a duplicate IHI is not a replica IHI.	
Exception	application. An except logged and may be car nature and, hence, is Some exceptions may An unresolved except has been addressed. A	us condition that occurs within a software system, or tion alters the normal flow of a program. Exceptions shall be tegorised into severities. An exception is transactional in its always retained. An exception may however be resolved. be configured to cause an alert or a warning to be raised. ion persists until the initial error condition for that exception Acknowledging an exception is not resolving an exception. ist take place to address the initial reason for the exception.	
Expired IHI number status	expired status where	licates when a record is no longer active. An IHI has an it is provisional and there has been no activity on the record it is unverified and has reached an age of 130 years.	
Family name	family, as distinguishe Surname and last nam Health software syste registered/legal family	al has in common with some other member(s) of their ad from that individual's first given name. [AS4846]. he are synonyms of family name. ms may store the preferred family name and/or the y name. If more than one family name is stored, the system	
	will typically distinguis alias names or name u	sh between the different family names through the use of usage indicators.	
Given Name	uniquely socially ident First name, middle na	within the family group or the name by which the person is tified. [AS4846]. me, second name, and forename are synonyms of given	
General supporting organisation	Record system for a h	provides infrastructure and information for the My Health ealthcare provider. A general supporting organisation can repository operator or registered portal operator. [SA2022]	
Healthcare identifier		signed to a healthcare provider (individual or organisation) ent as defined in the Healthcare Identifiers Act [HIACT2021].	
	including local numbe	d generally in healthcare to refer to any healthcare identifier rs, but in this document it is restricted to mean only the entifiers provided by the HI Service.	

Term	Meaning	
HI implementation	A health software system that manages and uses local copies of healthcare identifiers.	
IHI number status	The IHI number status may be Active, Deceased, Retired, Expired, or Resolved. This attribute of the IHI is referred to as 'IHI status' in the system interface specifications published by the HI Service operator, Medicare Australia.	
IHI record status	The status of the record in the HI Service of an individual healthcare recipient. The IHI record status may be Provisional, Unverified, or Verified.	
IEC	International Electrotechnical Commission.	
IRN	Individual Reference Number. The number on the Medicare Card located beside each person's name.	
ISO	International Organisation for Standardisation.	
Local healthcare provider individuals	Local healthcare provider individuals designate those healthcare provider individuals that provide healthcare on behalf of the local healthcare provider organisations.	
Local healthcare provider organisations	Local healthcare provider organisations designate those organisations that are responsible for the governance of the local system.	
OCR	Optical character recognition; the mechanical or electronic translation of scanned images of handwritten, typewritten, or printed text into machine-encoded text.	
Organisation Maintenance Officer	An employee nominated by the Responsible Officer to act on behalf of the seed healthcare organisation or a network (subordinate of the seed) organisation to manage the security and access controls for authorised employees of the healthcare organisation.	
	The Organisation Maintenance Officer is required to obtain consent from all healthcare providers before professional and business information can be published in the HI Service Healthcare Provider Directory (HPD).	
Patient Record	An electronic record containing sufficient patient demographic information to identify a patient. There may be more than one patient record for the same patient. The Australian Standard for Person and Provider Identification in Healthcare (AS4846) provides guidance for achieving unique identification.	
Provisional IHI	When an IHI record is provisional, it means the identifier was created at a healthcare facility when the healthcare recipient was not able to be identified.	
Registered portal	A third-party portal used to access information on the My Health Record system that is registered with the My Health Record system as a registered portal operator.	
Registered repository	A third-party repository used to store clinical documents and other clinical data that connects to the My Health Record system. A repository may store clinical documents in either a proprietary format or a CDA format.	

Term	Meaning		
Replica IHI	One IHI assigned to two or more patient records in the health software system. This represents an error condition requiring active management. The diagram depicts potential replica IHIs.		
	IHI#1	IHI#1	
	00	≠	
	Patient A	Patient B	
	-	olica IHI' is the same definition used by the HI Service. nis document, a replica IHI is not a duplicate IHI.	
Resolved IHI number status	An IHI has a resolved status when it has been linked with another record as part of resolving a provisional record or resolving a duplicate record, or end dated as part of the replica resolution process.		
	If an IHI number search returns a message indicating that the submitted IHI has been resolved, the replacement IHI assigned to the healthcare recipient by the HI Service operator will also be included in the response from the HI Service. The replacement IHI is the correct IHI for the HI implementation to use for the healthcare recipient and the IHI used in the IHI number search is to be recorded in the HI implementation as the healthcare recipient's previous IHI.		
Responsible Officer	Only one Responsible Officer is appointed by the healthcare organisation. The Responsible Officer nominates the organisation maintenance officer(s), the networks associated with the seed organisation, the assignment or retirement of healthcare identifiers for the healthcare organisation, and any mergers and/or reconfigurations of the organisation.		
Retired IHI number status	and either it has bee	tatus when there is a date of death present on the record n matched with Fact of Death Data from Births, Deaths and and has had no activity for 90 days or has reached an age of Il records only).	
Search	An action that attempts to discover a healthcare identifier in the HI Service.		
SHALL	This word, or the ter requirement of the s	m REQUIRED, means that the statement is an absolute pecification.	
SHOULD	This word, or the term RECOMMENDED, means that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.		
Third-party healthcare provider	the first healthcare p organisation that is r	er organisation that is outside the governance boundary of provider organisation. For example, a healthcare provider not owned, managed, or governed by the primary provider e considered a third-party healthcare provider.	

Term	Meaning
Unverified IHI	When an IHI record is unverified it means the identifier was created by a healthcare organisation and the healthcare individual has not contacted Medicare Australia to verify the IHI by providing Evidence of Identity.
Validate	An action that attempts to confirm a healthcare identifier is correct for a set of demographic data.
Verified IHI	When an IHI record is verified, it means the person is a known customer of Medicare Australia or the Department of Veterans Affairs or has provided Evidence of Identity information that has been recorded in the HI Service to establish the identity of the healthcare individual.
Warning	Electronic notification of an exception or event that may require user attention. A warning will typically be displayed on the user interface and acknowledged by the operator. The software system shall allow the user to cancel a warning.

References

Reference	Description
AS4846	Person and provider identification in healthcare, AS 4846—2014, AS 4846—2014, Standards Australia, 2014
ISO22220	International Technical Specification Health Informatics: Subject of Care Identification, ISO/TS 22220:2008
ISO27527	International Technical Specification Health Informatics Healthcare Provider Identification, ISO/TS 27527:2010
HIACT2021	Healthcare Identifiers Act 2010, Federal Register of Legislation, Australian Government, 6 November 2021
	https://www.legislation.gov.au/C2010A00072/latest/text
HIREG2020	Healthcare Identifiers Regulations 2020, Federal Register of Legislation, Australian Government, 27 August 2020
	https://www.legislation.gov.au/F2020L01072/asmade/text
ISO24723	ISO/IEC 24723:2010 Information Technology – Automatic identification and data capture techniques – GS1 Composite bar code symbology specification, International Organisation for Standardization, 2010
ISO7812-1	ISO/IEC 7812-1 Identification cards – Identification of issuers – Part 1: numbering system, International Organization for Standardization, 2006
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Reference	Description
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TECH.SIS.HI.14	Healthcare Identifiers (HI) Service, System Interface Specification (SIS), Manage Provider Organisation Details, TECH.SIS.HI.14, Services Australia, Q3 2011
TECH.SIS.HI.15	Healthcare Identifiers (HI) Service, System Interface Specification (SIS), Read Provider or Administrative Individual Details, TECH.SIS.HI.15, Services Australia, Q3 2011
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