



HIPS

Release Note

8 April 2022 v8.3

Approved for external information

Document ID: DH-3599:2022

Related end product identifier: EP-3598:2022

Release rationale

HIPS v8.3 is a minor release that provides the following enhancements and defects fixes:

- Significant improvements to document upload performance. This version of HIPS is capable of uploading 200,000 documents per 24 hours on the recommended high usage profile documented on the HIPS 8.3 - Server Roles, Specifications and Software Requirements page in Collaborate.
- Emergency Department views have been added to HIPS UI, providing quick access to information critical for emergency care. The Patient Summary view now includes the following information:
 - Immunisations (introduced in HIPS 8.2) with option to highlight COVID-19 vaccines
 - Medicines
 - Discharge Summaries
 - Allergies and Adverse Reactions
 - Emergency Contact Details
- Support for uploading Discharge Summary, Event Summary and Specialist Letter Document sub-types with HIPS providing the latest list of available sub-types published by the Agency.
- Support for uploading multiple Discharge Summaries against a single episode.
- Further resilience to temporary infrastructure errors. When HIPS detects the Certificate Revocation List is unavailable, processing is retried. In addition, when unexpected error types are detected from My Health Record, the hips.PcehrErrorCode table can be updated to detect future occurrences of these errors and control whether HIPS retries the error.
- Management of certificates has been simplified by storing details in the HIPS database using the configuration subsystem.
- A mix of SHA-1 and SHA-2 certificates is now supported.
- New configuration settings to give control to Site admins for customising error messages produced in HIPS Core, My Health Record and HI Service tailored for their users, including optional text to contact the Site's Help Desk.

- Ability for Site admins to display information to HIPS UI users to cover Site specific events such as planned and unplanned outages.
- Failure reason codes added to document queue records to provide a reason for failure. This is supported by comprehensive documentation on Collaborate.
- Improvements to installation documentation and other documentation updates.
- Various security hardening enhancements. **Important:** note ADO ID 13854 under *Change details*.
- Administrator, user and functional enhancements

Package inclusions

Updated (supersedes previous version)

| Identifier | Name and version |
|--------------|---|
| DH-3599:2022 | <i>HIPS – Release Note v8.3 (this document)</i> |
| DH-3600:2022 | <i>HIPS – Binary Software Package v8.3</i> |
| DH-3601:2022 | <i>HIPS – Source Code Software Package v8.3</i> |
| DH-3602:2022 | <i>HIPS – Functional Change Log v8.3</i> |
| DH-3603:2022 | <i>HIPS – Product Data Sheet v8.3</i> |
| DH-3604:2022 | <i>HIPS – Interface Change Log v8.3</i> |

Audience

- healthcare provider organisations
- diagnostic service provider organisations
- system integrators
- software vendors

Change details

The following items are addressed by this release.

| ADO ID | Summary | Change description |
|------------------|---|--|
| Enhancement 6275 | Retry document uploads when Certificate Revocation List unavailable | Retriable processes, such as document uploads and IHI searches, will now be queued for retry when the revocation status check for a certificate cannot be performed because the certificate revocation list is unable to be reached or is unavailable. Since revocation status check unavailability is usually only a temporary error, this will normally mean that the revocation status check will succeed on one of the retries and allow the queued message to be further processed. |

| ADO ID | Summary | Change description |
|-------------------|--|--|
| Enhancement 8051 | Document Type Register - Data structure to support a list of supported document types and subtypes for sites to eventually reference for CDA uploads | New tables have been added to support the versioning and document subtype features of the new Australian Digital Health Agency document type register. |
| Enhancement 10292 | Allow CDA author occupation to be configurable or specified by caller at runtime | A new OccupationCode field was made available to users for specifying author occupations when sending requests to create/upload discharge summary Level 1A. |
| Enhancement 11005 | Replace XML column in MessageQueue | HIPS performance has been improved because SQL queries on message queue metadata no longer require XML query techniques. The metadata previously stored as XML in hips.MessageQueue.MessageMetadata is now stored in a new general purpose table, hips.Metadata. Each record in this new table indicates the parent table and record identifier to which the metadata relates, and represents the metadata as a name/value pair, e.g. ParentTable = 'MessageQueue', ParentId = 231435, Name = SourceSystemSetId, Value = 1.2.36.1.2001.1005.49.2.8003621566687292^130543. |
| Enhancement 11428 | Document how print button in standalone mode works | When viewing a clinical document on the Patient Summary page in HIPS UI, the print button prints the CDA document only. When viewing a PDF attachment users may expect the Print button to print the contents of that PDF, however this is not the case. To print an attached PDF, users must use the print button within the PDF viewer. The HIPS UI Operational Guide documentation has been updated to describe the Print button functionality in more detail. |
| Enhancement 11718 | Add configuration option to hide user preferences link in embedded view My Health Record page header | A new configuration setting called UIHideUserPreferencesLink has been added to allow sites to control whether to show or hide the "User Preference" in HIPS UI embedded view. |
| Enhancement 12430 | Move the management of NASH and token signing certificates to the HIPS database & access via API | Certificate management in HIPS has now been simplified. Sites are no longer required to install certificates on the application server, configure access to private keys or update values directly in the HIPS database when installing or updating a certificate. Instead they can now update or install certificates using either the Configuration Management UI or the Configuration CLI, which will store and retrieve the certificate from the hips.ConfigurationSetting table. |
| Enhancement 13806 | Provide guidance for database connections to use encryption in transit | The HIPS documentation has been extended to offer guidance to sites on how to secure their SQL Server or the connections from HIPS components to their SQL Server. For more details, please refer to the HIPS 8.3 - Enable encrypted connections to the HIPS databases page on Collaborate. |

| ADO ID | Summary | Change description |
|----------------------|--|---|
| Enhancement 13853 | Recommend HIPS Sites scan files uploaded via the HIPS UI Upload PDF Discharge Summary page for malicious content | Recommendations have been added to the HIPS UI operational guide to provide sites with guidance on how to eliminate a security risk where users may upload malicious files through the Upload Discharge Summary page in HIPS UI. |
| Enhancement 13854 | Improve HIPS UI transport layer security (TLS) default configuration | <p>HIPS UI Transport Layer Security has been improved by:</p> <ol style="list-style-type: none"> 1. Enabling HTTP Strict Transport Security (HSTS) for the HIPS application to prevent HTTP downgrade attacks. HSTS instructs browsers interacting with a web application to only communicate using HTTPS, which reduces to ability of a threat actor to conduct a protocol downgrade attack. 2. Disabling all ciphers whose strength are 128 bits or less during deployment, such as the DES-CBC3-SHA SSL cipher, which uses a key length of under 112 bits and is susceptible to the Sweet32 attack, a SSL/TLS vulnerability that allows attackers to compromise HTTPS connections using 64-bit block ciphers. <p>Notes:</p> <ul style="list-style-type: none"> • On Windows Server 2012 R2 or earlier the deployment will not enable or disable any cipher suites as the Get-TlsCipherSuites command is not available. • If there are no ciphers higher than 128 bit the deployment will not disable the weaker ciphers. <p>Warning:</p> <ul style="list-style-type: none"> • Ensure the collaborate documentation section titled <i>Network Configuration</i> on the HI Service TLS cipher suites, at https://collaborate.digitalhealth.gov.au/display/HI+PSP/HIPS+8.3+-+Installation+Prerequisites is actioned to ensure successful connectivity to the HI Service. |
| Enhancement 13855 | Recommend HIPS Sites remove sensitive metadata from files uploaded via the HIPS UI Upload PDF Discharge Summary page | Recommendations have been added to the HIPS UI operational guide to provide sites with guidance on how to eliminate a security risk where users may upload sensitive metadata files through the Upload Discharge Summary page in HIPS UI. |

| ADO ID | Summary | Change description |
|----------------------|--|---|
| Enhancement 13939 | Introduce new configuration settings to give control to Site admins for customising error messages produced in HIPS Core, My Health Record and HI Service to be suitable for their users | <p>Two new configuration settings have been added for sites to customise most error messages displayed in HIPS UI:</p> <ul style="list-style-type: none"> 'MessageOverride' has a new Regex scope that accepts a regular expression and is used to match parts of the error message returned from HIPS Core, the My Health Record system and the HI Service. If a match is found, the matching part will be replaced with the string configured in the setting value. 'ContactHelp' can be used to append site specific contact details to the end of the error messages, such as the Site's help desk. <p>Documentation for how to configure these two settings can be found under HIPS 8.3 - Configuring My Health Record Error Codes in HIPS Collaborate.</p> |
| Enhancement 13940 | HIPS UI - Configurable parameter for displaying information such as planned outages and unplanned outages | <p>There are two new configuration settings to support the display of a persistent notification to users in HIPS UI:</p> <ul style="list-style-type: none"> NotificationMessage NotificationDisplay <p>Users can enter the message to be displayed in the NotificationMessage setting, and choose a display style in the NotificationDisplay setting: Off, Info, Warning, Danger, Success.</p> <p>If there is a NotificationDisplay setting that is not Off and a NotificationMessage that isn't empty, the message will always be displayed at the top of the screen, using the NotificationDisplay setting to determine the style of the alert. Typical uses for this include alerting users to:</p> <ul style="list-style-type: none"> Current issues with the system, e.g., service outages using the Danger display, Future, known outages, e.g., service outages using the Warning display, Problems have been fixed, e.g., services are working again using the Success display <p>These settings can be set at multiple scopes, and the order they will take effect is Facility, Organisation, Global. Settings at Facility and Organisation scope will only take effect when a facility has been selected.</p> <p>While it is possible to set different messages at different levels, only one message will be displayed at a time. The recommendation is to use just one scope type at a time.</p> |
| Enhancement 14190 | Improve error handling in HIPS UI when error occurs retrieving list of facilities | <p>HIPS UI will now log the error and show an error message on login if the HIPS UI is unable to retrieve the list of healthcare facilities from HIPS Core. This change will make it easier to diagnose errors where HIPS UI cannot communicate with HIPS Core, which may occur during installation of HIPS due to invalid configuration but can also be caused by other issues.</p> |

| ADO ID | Summary | Change description |
|----------------------|--|--|
| Enhancement 14531 | Improve security by changing default referrer policy | HIPS UI has been made more secure by defaulting the referrer policy to 'same-origin', which means if a user clicks on an external link while viewing a patient's My Health Record, the referrer URL (which may include the patient's MRN) will not be provided to a third-party website in the referrer header. |
| Enhancement 14856 | Upgrade vulnerable version of the Agency's Prescription and Dispense View stylesheet | The version of the Agency's Prescription and Dispense View stylesheet used by HIPS UI has been updated to resolve a vulnerability. |
| Enhancement 14876 | Extend Level 1A Discharge Summary for multiple documents per episode | The HIPS CreateDischargeSummaryLevel1A and UploadOrSupersedeDischargeSummaryLevel1A services for creating and uploading Level 1A Discharge Summary documents now allow multiple documents per episode by supporting a new field for supplying the identifier for the document in the request. |
| Enhancement 14913 | Add index to improve performance of queue consumers polling the message queue | New indexes have been added to the hips.MessageQueue table, and associated stored procedures have been updated to prevent the selection of inappropriate cached query plans which can impact performance of the queues. These changes have significantly improved the performance and reliability of message queue processing. |
| Enhancement 15030 | Revalidate IHI by searching with the updated DVA number when the DVA number is updated | HIPS Core will search for a patient's IHI using a supplied DVA number if the DVA number has changed, but the Medicare and IRN did not. HIPS will still search with Medicare first if the Medicare or IRN is changed, or if both Medicare and DVA numbers are changed. |
| Enhancement 15339 | Data Archiving Script - allow retention period to be specified in days | To give sites more control of the data archiving retention periods, the setting has been converted from months to days. Retention periods for existing deployments will be automatically converted to the equivalent number of days during the HIPS upgrade. Sites should update their data archiving script to make use of the HIPS 8.3 version. |
| Enhancement 15340 | Increase limit for QueueConsumerBatchSize configuration setting from 100 | The QueueConsumerBatchSize setting limit has been raised to 1000. This allows message queue throughput to be improved by increasing the batch size and polling less frequently (using the QueueConsumerPollingInterval setting). |
| Enhancement 15341 | Revise stored procedures used by queue consumers to obtain items from the queue | The following changes have been made to ensure HIPS maintains message queue performance with large databases: <ul style="list-style-type: none"> hips.MessageQueueAcquireAvailable stored procedure now uses a single query to update and return results. hips.MessageQueueHasItemsAvailable is a new stored procedure based on hips.MessageQueueGetCountAvailable that simply returns true or false depending on whether items are available. |

| ADO ID | Summary | Change description |
|----------------------|--|--|
| Enhancement 15347 | Display Emergency Contact Details from Individual Details View | <p>HIPS UI patient summary page is extended to display a new Emergency Contact Details section in the Patient Summary section of the Patient Overview tab.</p> <p>The new table will display a patient's emergency contacts, with the following columns:</p> <ul style="list-style-type: none"> • Type • Name • Relationship • Phone Number • Email Address |
| Enhancement 15348 | Display Allergies and Adverse Reactions from Medicines View | <p>The HIPS UI patient summary page has been extended to display an Allergies and Adverse Reactions section in the Patient Overview tab. The Allergies and Adverse Reactions information is sourced from the patient's Medicines View.</p> <p>Each Allergy and Adverse Reaction will be represented as a row in a table with the following columns:</p> <ul style="list-style-type: none"> • Date • Substance/Agent • Manifestation(s) • Source • Author • Actions (no title) <p>For more information on the sources of information for the Medicines View refer to: https://www.myhealthrecord.gov.au/for-healthcare-professionals/howtos/medicines-information-view</p> |
| Enhancement 15349 | Display Medicines from Medicines View | <p>The HIPS UI patient summary page has been extended to display a Medicines section in the Patient Overview tab. The Medicines information is sourced from the patient's Medicines View.</p> <p>Each Medicine will be represented as a row in a table with the following columns:</p> <ul style="list-style-type: none"> • Date • Active Ingredients • Brand • Dose/Directions • Source • Author • Actions (no title) <p>For more information on the sources of information for the Medicines View refer to: https://www.myhealthrecord.gov.au/for-healthcare-professionals/howtos/medicines-information-view</p> |

| ADO ID | Summary | Change description |
|----------------------|---|---|
| Enhancement 15350 | Display Discharge Summaries from Document List | <p>The HIPS UI patient summary page has been extended to display a Discharge Summaries section in the Patient Overview tab. The Discharge Summaries information is sourced from the patient's discharge summary documents taken from the My Health Record system GetDocumentList B2B web service.</p> <p>Each Discharge Summary will be represented as a row in a table with the following columns:</p> <ul style="list-style-type: none"> • Document Date • Document Type • Author Name • Author Role • Organisation Name • Actions (no title) <p>For more information on the sources of information for the Discharge Summaries refer to: Discharge summaries My Health Record.</p> |
| Enhancement 15351 | Display links in Prescription and Dispense View as blue underlines and action icons | <p>The Prescription & Dispense tab has been enhanced as follows:</p> <ul style="list-style-type: none"> • Group By option has background colour changed from grey to blue to make the option more prominent. • Medicine Details style changed to blue text with underline • Document Link style changed to blue text with underline • Blue icon added to document links for consistency with other views. |
| Enhancement 15352 | Display Group By with blue background and move the downloaded info message above the dates and group by options on prescription/dispense view | <p>The Prescription & Dispense view tab has been modified to:</p> <ul style="list-style-type: none"> • Show the Group By option with a blue background • Show downloaded info message above the dates and group by options. |
| Enhancement 15353 | Enhance the Other Documents list with checkbox to group by name and columns that are consistent with document lists in the Health Record Overview | <p>The Others tab has been enhanced to be more consistent with document lists in the Health Record Overview and now supports grouping by Document Type name, and displays item counts when grouping is enabled.</p> <p>The Advance Care tab has also been modified as part of this change to display item counts when grouping is enabled.</p> |
| Enhancement 15443 | Archiving option to delete/null records without creating zip files | <p>Data archiving now supports the immediate purge of data rather than archiving files to a zipped file. Creating the zip folders takes a lot of processing time so it will be beneficial for some sites to have an option to just purge the records that they plan to delete anyway, without creating the zip folders. Supported tables that are added to the ImmediatePurgeTables setting will have purged data audited in a new BCP file with the ID and DateCreated and each row purged.</p> |

| ADO ID | Summary | Change description |
|----------------------|---|--|
| Enhancement 15816 | Review and change the default minimum log levels in HIPS Core and HIPS UI components to at least INFO | All log4net files in HIPS Core and HIPS UI have been reviewed and updated to log INFO messages unless already logging a higher level. |
| Enhancement 15821 | Improve resilience of HIPS when retrieving document lists that have more than 1000 documents | Calls to GetDocumentList are now capable of handling errors that result from too many documents in the results, allowing more than 1000 documents to be returned in a single call. |
| Enhancement 15954 | Loading of a HIPS ActivationKey optional for test system | HIPS has been modified to include a configuration setting which gives Sites the ability to test a HIPS activation key in their test environment. The process for testing this is explained in the Collaborate documentation, alongside the production guidance. |
| Enhancement 16030 | Remove the HIPS-Web-TokenGenerator sample from the release package | The HIPS release package no longer includes the TokenGenerator sample code. Instead the TokenGenerator, which is unchanged from version to version is now available through Collaborate where the zip file can be downloaded instead. |
| Enhancement 16043 | Change colours of sorting icons to blue and green | Feedback received from clinical users suggested it was not obvious that you can click on a column in a HIPS UI table to apply sorting, as the grey coloured sorting icons are easy to overlook, and grey often indicates that something is disabled. The grey icons have been changed from grey to blue to make it clear that it is not disabled, and users can click it to sort the table by that column. The blue active icons have been changed from purple to green, to clearly indicate the current sort order. |
| Enhancement 16189 | Upgrade Configuration and Security APIs to use .NET 6 | The APIs bundled with HIPS previously ran on .NET Core 3.1 which will reach end of life in Nov 2022 and will no longer be patched by Microsoft. The HIPS APIs have been migrated to .NET 6 which not only allows for continued security patching, but also improves performance. |
| Enhancement 16215 | Record a failure reason code in message queue table | When queued operations fail, a new FailureReason code is logged in the hips.MessageQueue table to help with quickly categorising and troubleshooting issues. Refer to the documentation in Collaborate for a list of FailureReasons and associated recommended actions. |
| Enhancement 16238 | Add a heading label to columns that show actions | HIPS UI has been modified to include an 'Actions' column header on all tables that contain clickable actions. |
| Enhancement 16790 | Create table indexes to aid execution of the CorrelatedLogsList stored procedure | The tables hips.IhiResetAudit and hips.User have been added to the hips.CorrelatedLogsList stored procedure and performance has been improved. The hips.CorrelatedLogsList stored procedure is provided to assist administrators with collating related events from several different tables when investigating an issue. |
| Enhancement 16801 | Reduce repetition of the same error in HIPS UI | Under exceptional circumstances multiple instances of the same error could be displayed on the Patient Summary page, this has now been resolved. |

| ADO ID | Summary | Change description |
|----------------------|--|---|
| Enhancement 16802 | Simplify certificate settings | The HIPS certificate configuration settings have been simplified, making certificate maintenance easier. Some unnecessary settings, validation and database columns have been removed. The service connection types are now automatically detected from the appropriate certificate data. An important benefit of this simplification is that a HIPS instance can now have both SHA-1 and SHA-2 type certificates configured at the same time for different services and organisations. |
| Enhancement 16894 | Review and add applicable indexes for increased performance | Additional indexes have been created to enhance the performance of HIPS when working with large databases. The tables affected are: <ul style="list-style-type: none"> [hips].[PatientMasterAddress] [hips].[PatientMasterContact] [hips].[HospitalAddress] [hips].[HospitalContact] [hips].[PatientMasterIhi] [hips].[PatientMasterName] [hips].[DocumentFormat] |
| Enhancement 17109 | Visual improvements to group by checkboxes in HIPS UI | In HIPS UI the appearance of "Group By" checkboxes has been improved. |
| Enhancement 17112 | Increase spacing between actions on Patient Management screen | HIPS UI has been modified by adding extra spacing between action buttons in the search results of the Patient Management page to improve the visual appearance of actions and to reduce the chance of users clicking the wrong action. |
| Enhancement 17320 | Update modal title when viewing an attachment to indicate that the user is viewing an attachment of a particular document type | When viewing an attachment of a document on the My Health Record page, the modal title will now be updated with the words "Viewing Attachment" to indicate that the document being viewed is an attachment rather than the original document. When viewing the main part of a CDA document, and not one of its attachments, the words "Viewing Attachment" will not be shown. |
| Enhancement 17373 | Improve resilience of the Patient Summary in HIPS UI when retrieving more than 1000 documents | The Patient Summary can now fetch and display more than 1000 documents without getting a "too many documents" error in several places: the Discharge Summaries panel, the Shared Health Summary Documents panel, the Others tab and the Advance Care tab. |
| Enhancement 17463 | Modify package readme.txt to include URL to collaborate documentation | The readme.txt files in the HIPS Release package now include a link to collaborate documentation root page to make it easier for installers to find the online documentation. |

| ADO ID | Summary | Change description |
|----------------------|---|--|
| Enhancement 17505 | Improve archiving reliability by breaking deletion into batches | The archiving scripts provided in the HIPS Release package have been enhanced to allow batching of deletes, improve logging and to automatically save the logs to a file. Sites can define a DeleteBatchSize which will split the total number of records that need to be archived into smaller batches, and DeleteBatchDelay which controls the delay between each batch of deletes being processed. These new configurations will allow sites to archive larger numbers of records at a time - exceeding the SQL command timeout no longer rolls back the already processed deletes. |
| Enhancement 17507 | Improve logging of HIPS data archiving progress | Prior to this release, Sites had to configure logging external to the archiving script. New logging functionality has been incorporated into the main archiving script, which ensures a log file is generated each time the process runs. The script also now logs more details which will help Sites see more information on what the process is doing. A log file will automatically be created with a default filename in the archive folder, which can be overridden to suit the Site's needs. |
| Enhancement 17619 | Create database admin view for sites to use for reporting and auditing My Health Record viewing usage | A new admin.MhrAuditLogReport view has been added to augment the My Health Record service call log table with facility and patient information. |

Enhancement 19314 Improve status values for uploaded documents in the view and remove uploaded documents page

Previously, the HIPS UI View and Remove Uploaded Documents screen showed the status of each uploaded document:

- Uploaded
- Pending Upload (if the most recent queue item for this document is a pending upload operation)
- Failed Upload (if the most recent queue item for this document is a failed upload operation)
- Removed
- Pending Remove (if the most recent queue item for this document is a pending remove operation)
- Failed Remove (if the most recent queue item for this document is a failed remove operation)

These status values were misleading when there is one or more operations on the queue for a document as it does not indicate the current state of the document.

HIPS UI View and Remove Uploaded Documents screen now more clearly shows the status of each uploaded document, depending on the current status of the document (whether it is shown or hidden in the My Health Record) and the status of the most recent upload or remove action related to this document on the HIPS queue.

The status shown is the 'Display Status' column in the table below:

| Document Status | Latest Queue Message | Display Status |
|-----------------|----------------------|-------------------------------------|
| Uploaded | Successful Upload | Uploaded |
| Uploaded | Pending Upload | Uploaded (Supersede Pending) |
| Uploaded | Failed Upload | Uploaded (Supersede Failed) |
| Uploaded | Pending Remove | Uploaded (Remove Pending) |
| Uploaded | Failed Remove | Uploaded (Remove Failed) |
| Removed | Successful Remove | Removed |
| Removed | Pending Upload | Removed (Supersede Pending) |
| Removed | Failed Upload | Removed (Supersede Failed) |
| Removed | Pending Remove | Removed (Subsequent Remove Pending) |
| Removed | Failed Remove | Removed (Subsequent Remove Failed) |

| ADO ID | Summary | Change description |
|----------------------|--|---|
| Enhancement 19315 | Create process to update the Document Type Register in HIPS | The Australian Digital Health Agency have published a Document Register which lists all of the document types supported by the My Health Record, along with their corresponding subtypes, in order to inform sites of the type/subtype combinations that may be uploaded or viewed. The Australian Digital Health Agency Document Register will be updated from time to time as new subtypes are registered in the My Health Record system and old subtypes become deprecated or retired. A PowerShell script has been created which can be used to download the latest Document Register and update the HIPS database. |
| Enhancement 19316 | Upload CDA Documents with sub-types | The HIPS UploadCDADocument service for uploading CDA documents now allows further classification of documents by accepting a document subtype, as defined in the Agency's document type register. |
| Enhancement 19317 | Create and Upload Level 1A Discharge Summaries with sub-types | The HIPS CreateDischargeSummaryLevel1A and UploadOrSupersedeDischargeSummaryLevel1A services for creating and uploading Level 1A Discharge Summary documents now allow further classification of documents by accepting a document subtype, as defined in the Agency's document type register. |
| Enhancement 19481 | Filter Shared Health Summary list to only show Shared Health Summary documents | The Health Record Overview section on the Patient Summary page includes a section for 'All Shared Health Summary Documents'. This section has been impacted by the introduction of the Consolidated Immunisation View document which started appearing in the list of Shared Health Summary documents when the new document type was released in the My Health Record system. A change has been made to ensure only Shared Health Summary documents are shown in this section. |
| Enhancement 19744 | Create new web service to get list of supported document types and subtypes for sites to reference for CDA uploads | A new version of the ListDocumentTypes operation has been published on the ReferenceDataServiceV8_3_0 service. This version has been created to retrieve additional details obtained from the new Australian Digital Health Agency document type register. The response now includes the version and creation timestamp of the document type register in order for client systems to determine whether to update locally stored details (where applicable), and the list of subtypes for each document type. The document types include an indicator for whether HIPS is able to perform uploads for that type, and the subtypes include the status (NotYetActive, Active, Deprecated, Retired) of the subtype with a corresponding status transition timestamp. Document types and their subtypes will never be removed from the register but will instead be transitioned to Retired, most likely via Deprecated. |

| ADO ID | Summary | Change description |
|----------------------|---|--|
| Enhancement 21272 | Add a summary at the beginning of the installation documentation for installers to refer to and check they complete the mandatory actions during an upgrade | Installation documentation has been improved to clearly summarise the contents of the pre installation sections which should make it easier for installers to identify what they should do to prior to performing an installation. |
| Enhancement 21980 | Document the steps for enabling both HTTP and HTTPS for HIPS Core and HIPS UI | Documentation has been added to the installation section in Collaborate with guidance on how to configure HIPS Core and HIPS UI with both HTTP and HTTPS endpoints at the same time. |
| Enhancement 25847 | Add RetryCount and TransientFailure Outcome to MhrUploadDocumentCounter metric | <p>The "My Health Records Uploads" charts on the Operational Insights dashboard have been enhanced:</p> <ul style="list-style-type: none"> • The "Total Uploads Over Past 48 Hours by Status" chart displays whether the uploads over the last 48 hours failed/succeeded on the first attempt or after retries, and whether the upload failures were transient. Note that this chart only displays information about failures/successes of the actual upload attempts and failures at other points, such as IHI verification, are not shown here. • The "Total Successful Uploads By Document Type" chart shows only successful uploads for each document type. • The "Total Successful Uploads By Document Type/Transaction Type" chart shows only successful uploads/supersedes for each document type. |
| Enhancement 26142 | The Event Summary filter checkbox and user preferences checkboxes in the Health Record Overview should include subtypes of the selected document types | The Event Summary filter checkbox in the Health Record Overview now includes subtypes of Event Summary. When users set a preference to exclude certain document types from the filtered document lists in the Health Record Overview, the documents will be excluded by document type rather than subtype. Note: in order to detect subtypes as instances of a document type, the My Health Record document type register must be kept up to date in the HIPS database, as documented in HIPS 8.3 - Updating Resources |

| ADO ID | Summary | Change description |
|----------------------|---|---|
| Enhancement 26471 | Migrate APIs and CLI from Self-Contained Deployment to .NET 6.0 Framework Dependant Deployment | The HIPS Security API, Configuration API and Configuration CLI components introduced in HIPS 8.0 were built with .NET Core 3.1 and published using the Self-Contained Deployment (SCD) model. This meant these components could run on a server without the .NET Core runtime installed on it, because the .NET Core runtime files were bundled with each component. There were several downsides to the SCD model which led to a decision to change to the Framework Dependant Deployment (FDD) model with HIPS 8.3, including increased deployment package size and inability to apply security patches without upgrading. Sites will benefit from the change to FDD model with much smaller release packages, components sharing the same .NET runtime already installed on the server, which will reduce the disk space and memory requirements, and most importantly, the ability for HIPS components to utilise security updates to the .NET 6.0 runtime binaries on the application server without requiring the installation of a HIPS patch release. |
| Enhancement 26516 | Enhance handling of unexpected My Health Record errors | Occasionally the My Health Record system can return unexpected errors that do not include a standard error code which prevented Sites from customising the behaviour of HIPS when such errors were encountered. In most cases these unexpected errors were transient, and the interaction would likely succeed if retried. To provide Sites with more control the existing hips.PcehrErrorCode table has been extended with support for regular expression configuration which will enable Sites to register these unexpected errors and control whether HIPS retries the error. |
| Enhancement 26703 | Document strong recommendation to implement data archiving rather than audit migration functionality to clean up legacy audit records from pre-HIPS 7.0 | Documentation has been updated to strongly recommend Sites do not migrate audit data when upgrading and to put data archiving in place instead as a means to not only clean up legacy data, but to also slow the growth of the database and maintain performance during ongoing operation of HIPS. |
| Enhancement 26849 | Remove unused MonitoringRole database role script from HIPS | The HIPS specific MonitoringRole database role is no longer used in HIPS and is no longer configured for new installations. Sites may choose to manually remove this role from existing installations, but it is not necessary. |
| Defect 4909 | Episodes cannot be found on the Upload Discharge Summary page if the SourceSystemEpisodeID is empty | In HIPS UI, episodes cannot be found on the Upload Discharge Summary page if the Episode SourceSystemEpisodeID is empty. This defect has been mitigated because an empty visit number, which maps to the episode SourceSystemEpisodeID, is no longer allowed due to recent ADT validation added to HIPS. |

| ADO ID | Summary | Change description |
|--------------|---|---|
| Defect 7596 | Discharge summary UI error message when facility is missing address is unfriendly | Previously the HIPS UI Upload Discharge Summary page would display an unhelpful error message if the facility was not configured with an address in the HIPS database. This error occurs because the Discharge Summary CDA requires an address to generate a valid document. This error message has been improved. |
| Defect 7820 | Error handling for HIPS UI repositories is deficient | In certain cases, HIPS UI would incorrectly handle connection errors when attempting to get data from HIPS Core. This could result in strange behaviour occurring, such as HIPS UI with links and logo being displayed more than once on the screen. HIPS UI will now show the correct connection error message when unable to connect to HIPS Core. |
| Defect 9349 | Installation package file paths are long and can prevent the files from extracting completely | Documentation has been improved to advise installers that the binary package should be extracted to a shallow root folder to avoid an issue where extracting files with long paths exceeded system limits and failed. |
| Defect 9514 | Extra padding around PDF documents in Internet Explorer | Previously when a user tried to view a document in HIPS UI using Internet Explorer there was large empty space in the top and bottom of the PDF in the embedded view and the content was displayed in the middle section of the PDF. This has now been resolved, the PDF is now displayed correctly without any extra padding. |
| Defect 9525 | Print view of Diagnostic Imaging and Pathology tabs of View My Health Record page in Internet Explorer does not render styles | The print view of the Diagnostic Imaging and Pathology tabs on the View My Health Record page in Internet Explorer did not render any styles. This has now been resolved. |
| Defect 9825 | Double IHI lookup occurs when sending Pathology or Diagnostic Imaging HL7 ORU upload for old IHI with demographic change | If a patient's IHI was last validated beyond the configured valid period and a Pathology or Diagnostic Imaging HL7 ORU upload is submitted with a demographic change (name, sex or date of birth), HIPS would send two IHI validation searches to the HI Service with the same IHI search criteria when it should only do it once. This has now been resolved, HIPS will not send a second IHI validation to the HI Service in this scenario. |
| Defect 11206 | Local Providers page showing duplicate deactivation message on the top left side of the screen | After deactivating a local provider on the HIPS UI Local Providers page, a duplicate deactivation message would occasionally appear on the top left side of the screen in the background and would persist for a short while. This has been resolved, the deactivation message is now only shown in the modal as intended. |
| Defect 11377 | HPI-I Search with extra space character after given name results in an error | Previously in HIPS UI on the HPI-I Identifier and HPI-I Demographic Search pages, if an extra space character was provided after the provider's given name the search would result in an error. This issue is now resolved, and the value entered into the Given Name(s) field is now trimmed to remove any extra spaces. |

| ADO ID | Summary | Change description |
|--------------|--|--|
| Defect 11417 | Medicines tab doesn't load if more than 1000 documents on Others tab | The Medicines tab in the View My Health Record page in HIPS UI can now be loaded successfully if the selected patient has more than 1000 documents in their My Health Record for the past two years, or more accurately, the period of time configured in the setting PcehrViewFromDateOffsetMonths, where the default is "-24" months which results in a two-year period. |
| Defect 11600 | Unnecessary comma is shown in the Author field in HIPS UI document lists when the document's Author component has only one name | Document lists displayed in HIPS UI on the Patient Summary page would include an unnecessary comma in the Author field when the document's Author component had only one name part. The Author field no longer includes an unnecessary comma, and simply shows the single name part if the author only has one name. |
| Defect 11689 | Queue consumer not clearing HL7 log fields before populating an error log | Fixed an issue that HL7 log may record incorrect error log in certain circumstances. The issue happens when HIPS failed to perform an upload operation. The log context is now cleared before the request message going into the queue and no log from the previous operation will be recorded. |
| Defect 13173 | An empty value for the ImmediatePurgeTables, NonPurgeableTables or PurgeableTables settings in the ArchiveSetting table results in an error when attempting to process archiving | The data archiving script has been modified to handle the case when no tables are specified in the ImmediatePurgeTables, NonPurgeableTables or PurgeableTables settings, or when any of these settings has a value that ends with a comma. |
| Defect 13375 | Duplicate records can be created in the PatientMaster, HospitalPatient and Episode tables | The creation of duplicate patient records that could occur in specific circumstances is now being prevented by enforcing the uniqueness of the local patient identifier in the HospitalPatient table columns HospitalId and Mrn. |
| Defect 13743 | MRN lookup failure on View and Remove Documents page should not hide the "Select Facility" link | A defect in HIPS UI would result in the 'Select Facility' link being hidden when lookup by MRN or lookup by IHI encountered an error. This has now been resolved, and the 'Select Facility' link will remain visible. |
| Defect 13872 | Users not given access to a facility (via SecurityGroup setting) can still access the patient summary page of a patient at any facility by modifying the URL | To ensure the access security cannot be circumnavigated, users can no longer access patient details they do not have permissions to view by altering and guessing the URL address of the My Health Record page. |
| Defect 14529 | Application error messages may leak system information | A security vulnerability was found where some errors in HIPS UI could leak limited types of system information has now been mitigated by changes made to HIPS UI that will prevent leaking of system information. |

| ADO ID | Summary | Change description |
|--------------|---|--|
| Defect 14828 | Dependency vulnerability in log4net 2.0.8 (High) | Previously HIPS was using Apache log4net version 2.0.8. Apache log4net versions before 2.0.10 are vulnerable to NVD CVE-2018-1285 because they do not disable XML external entities when parsing log4net configuration files. This allows for XXE-based attacks in applications that accept attacker-controlled log4net configuration files. This vulnerability has an inherent risk that is high, however only HIPS administrators can modify the log4net.config files on the HIPS application server, so the residual risk of this vulnerability was low. The version of Apache log4net used in HIPS has been updated, HIPS 8.3 no longer uses a vulnerable version of Apache log4net. |
| Defect 15785 | The action button column in the All Shared Health Summaries panel on the Patient Overview tab should not allow sorting | The View Document action button column in the All Shared Health Summaries panel on the Patient Overview tab allowed sorting, however sorting by this column did not make sense or provide any value to users. This column can no longer be sorted. |
| Defect 17851 | RegistrationData and RegistrationKey configuration settings should not show validation errors on the Configuration Management UI when they are empty, and the Environment is not Production | HIPS Configuration has been modified so that the RegistrationData and RegistrationKey configuration settings no longer shows validation errors on the Configuration Management UI when they are empty. |
| Defect 18749 | ShowAllPatientsUI is not a valid Configuration Setting in HIPS 8.2 | If the configuration setting "ShowAllPatientsUI" was set to "false" for a facility in the hips.HospitalCode table, upgrading from HIPS 7.x to HIPS 8.2 would migrate the setting to the hips.ConfigurationSetting table, however "ShowAllPatientsUI" was not a valid setting name in that table and the HIPS upgrade deployment would fail. In HIPS 7.x to HIPS 8.3 upgrade deployment, a HospitalCode setting of "ShowAllPatientsUI" with a value of "false" is now correctly migrated to the new setting named "ViewMyHealthRecordMenuItem" with a value of "PatientManagement". |
| Defect 18863 | GetValidatedIhiV8_0_0 encounters mapping fault when patient has MedicareDVAMismatch alert | In very rare circumstances, when there's a patient in HIPS that initially has a Medicare number then a change is made which results in the removal of the Medicare number, calling the GetValidatedIhiV8_0_0 request for the patient using MRN would result in a mapping fault being returned in the response. This issue has now been resolved and the GetValidatedIhiV8_0_0 request can now return a valid response for this scenario. |
| Defect 18933 | Deployment fails when client secrets or service account passwords contain invalid characters for XML | An issue has been resolved where the use of invalid characters in client secrets or account passwords in Configuration.psd1 files would result in the creation of an invalid configuration file in the deployed application and would ultimately cause the deployment to fail. |

| ADO ID | Summary | Change description |
|--------------|--|---|
| Defect 19259 | Inconsistent episode information returned when patient episode of the same type is created in the same hour | An issue in HIPS has been resolved where inconsistent or random episode information could be returned for a patient when searching for a patient or listing patients in HIPS UI or HIPS Mobile. The issue was rare, occurring only when a patient had multiple episodes of the same type where the admission dates were within one hour of each other. This issue no longer occurs, HIPS will now consistently return the closest episode to the current date time in lists and search results. |
| Defect 19456 | Patient Name link on the Patient Management page is missing a tooltip | The patient name link on the Patient Management page in HIPS UI did not display a tooltip which made it hard for users to know what action would occur when the link was clicked, Patient name links and action icons now all have consistent tooltips to ensure users know what actions clicking the link or action will have, that is viewing the patient's My Health Record. |
| Defect 19784 | Queue items of all statuses were retrieved from the HIPS database when a query was made for Patient Lookups, where only Pending items were expected | When HIPS is unable to lookup the IHI or check My Health Record existence for a patient due to a temporary error, a Patient Lookup should be added to the queue to be retried later. A Patient Lookup would not be queued if the patient already had a Patient Lookup message on the queue, regardless of the state (pending, success, failed). This was incorrect; the only state that should prevent a new message being queued is Pending state. This issue has been resolved. HIPS will now only check for existing messages in the Pending state before deciding if a new item should be added. |
| Defect 20454 | Dragging from inside to outside a modal should not dismiss the modal | A problem with HIPS UI has been fixed which prevents modal dialogs from being dismissed accidentally in certain cases such as when selecting text and dragging the mouse outside of the modal and before releasing the mouse button. |
| Defect 20678 | Duplicate alert logic was inefficient and generated alert text that could show the current patient MRN from a different facility to the current operation. | When HIPS raises a potential duplicate patient alert or a duplicate IHI alert, the alert text includes the MRN of the current patient record and a list of MRNs of other patient records that are affected by the alert. These MRNs may come from any of the healthcare facilities in which the enterprise patient identifier has been linked to the patient record. A change has been made to ensure that the MRN of the current patient record in the alert text is always an MRN in the current healthcare facility. This logic has also been made more efficient, avoiding an unnecessary database query that was retrieving all the configured healthcare facilities from the hips.Hospital table. |
| Defect 21325 | The occupation code used for DS Level 1A creation is inappropriate | "250000 Medical Practitioners nfd" replaces "253111 General Medical Practitioner" as the default author's occupation shown in discharge summary. |

| ADO ID | Summary | Change description |
|--------------|--|---|
| Defect 21718 | The Log4Net filter to disable warnings for deprecated services is missing LogMessageId 80015 | The preconfigured log4net filter to block deprecated messages from being reported to the logs only blocked messages with LogMessageId 80014 (for methods without replacement method). It has been modified to also block messages with LogMessageId 80015 (for methods with replacement method). Note, this filter is disabled by default and must be enabled to block these messages from being logged to the HIPS database. |
| Defect 22089 | Deleting a setting on the Configuration Management page should instruct users to recycle application pools for the change to take effect | An additional note has been appended at the end of the success message when a configuration is deleted on the Configuration Management page in HIPS UI. The new message informs users that restarting Windows services and recycling IIS applications may be required for the change to take effect. |
| Defect 22256 | IHI search message is repeated in IhiLookupAudit.Message on subsequent successful search | The error message stored in the Message column of the IhiLookupAudit table will be reset once an error has been logged, so that the appropriate error message (or NULL if no error) is logged for each IHI search. |
| Defect 22496 | AddReplaceLocalProviderIdentifier returns misleading fault details when the local provider code cannot be found. | The error message when no local provider was found has been changed to correctly indicate the cause of the fault. |
| Defect 24945 | XSS found on Gain Access page | A cross site scripting vulnerability has been resolved on the Gain Access page. |
| Defect 25621 | My Health Record system transient error response to DoesPcehrExist during a document upload results in the upload failing | Document upload and remove operations are now retried on My Health Record system unavailability when the patient IHI is stale and being re-verified. |
| Defect 27416 | HIPS UI provides insecure and non-functioning HTTP endpoint by default | HIPS UI deployment configuration has been modified to install only HTTPS endpoints by default, and no longer provides default configuration to deploy the non-functioning HTTP endpoint. |
| Defect 27441 | Null reference exception in HPI-I search exception handler | HIPS will avoid a null reference exception when the HPI-I search throws an exception, and the exception has no inner exception. |

Removed functionality

As new and improved functionality is introduced to HIPS, some older implementations of similar functionality may be removed from time to time to reduce the overhead in maintaining outdated functionality and encourage sites to adopt the new improved functionality. In this release the following functionality has been removed:

| ADO ID | Summary | Rationale for removal | Revised operational process |
|--------|--|--|--|
| 16030 | <p>Remove the HIPS Web Token Generator sample from the release package</p> <p>The HIPS release package no longer includes the Token Generator sample code.</p> | <p>The Token Generator sample is compatible with multiple versions of HIPS and remains unchanged with each new release. We now provide two example implementations of a token generator; one is a web service implementation, and one is a desktop app implementation.</p> | <p>Sites can download the two example implementations of a token generator from the HIPS - Pre-release versions; Utilities; Tools page on Collaborate.</p> |
| 26849 | <p>Remove unused MonitoringRole database role script from HIPS</p> <p>The HIPS specific MonitoringRole database role is no longer used in HIPS and is no longer configured for new installations.</p> | <p>The role is no longer used or required by HIPS.</p> | <p>Sites may choose to manually remove this role from existing installations, but it is not necessary.</p> |

Deprecated functionality

N/A

Known issues

The following open issues exist in this release:

| ADO ID | Summary | Issue description |
|--------|---|--|
| 6319 | Discharge date not shown in Remove Document form for some general documents | Since HIPS 6.0 some documents may display incorrect episode details on the HIPS UI Remove Document form. In the case of an inpatient episode which has a discharge date available, the discharge date is not shown in the remove document form. |
| 7360 | DocumentId Oid^Non-numeric Extension is not supported by MHR | <p>While the CDA standard does allow non-numeric extensions to be used for the DocumentId, support for non-numeric extensions has not been implemented in the My Health Record system. The three formats that are accepted by the My Health Record are:</p> <ul style="list-style-type: none"> • UUID • OID • OID with a numeric extension <p>Sites that attempt to use a non-numeric extension for the DocumentId will receive a "PCEHR_ERROR_0005 - Back end system temporary unavailable" error from the My Health Record system which is marked for retry on the HIPS upload queue. It is proposed that in a future release, HIPS should reject the message before it is put on the queue.</p> <p>Note: Sites should not experience this issue in Production as use of non-numeric extensions while implementing HIPS will surface this issue in the SVT environment.</p> |
| 7931 | SearchQueuedOperations queries should not fail when IHI is invalid | SearchQueuedOperations is unable to return information to callers when the patient has an IhiStatus of InvalidIhi or UnresolvedIhiAlert. |
| 7950 | IHI Reconciliation lookup by MRN functionality should show discharged patients rather than just those currently in hospital | In HIPS UI on the IHI Reconciliation page, the lookup by MRN functionality does not return discharged patients, making it difficult to perform IHI administrative tasks for patients that no longer have a current episode. |
| 8965 | Search by MRN for a patient who currently has an IHI error state shows an incorrect message about an invalid IHI | In HIPS UI on the View My Health Record when searching for a patient by MRN, if the patient happens to have an IHI error status, such as Address Change Mismatch, Potential Duplicate Patient or Demographic Mismatch, a message about the patient having an invalid IHI is displayed. While this does not impact functionality, it may cause confusion for users. |
| 9108 | HIPS UI produces an unhelpful error message when HIPS Core is unable to access its database | HIPS UI produces an unhelpful error message when HIPS Core is unable to access its database and does not log anything to the HIPS UI database. |

| ADO ID | Summary | Issue description |
|--------|---|--|
| 9233 | Improve error message when invalid document format code is used for DiagnosticImagingReportDocumentFormatCode or PathologyReportDocumentFormatCode settings | The HL7 ORU web services used for uploading Pathology Reports or Diagnostic Imaging Reports returns the error message: "Sequence contains no matching element" when the DiagnosticImagingReportDocumentFormatCode or PathologyReportDocumentFormatCode settings (whichever is applicable to the service being used) is configured with an invalid document format code. Sites should ensure they use a document format code that is configured in the hips.DocumentFormat table to avoid this error. |
| 9324 | Users can't login if they have html characters in their password | <p>Users with html characters in their Active Directory passwords will be unable to login to HIPS UI due to form validation and the user will be redirected to a blank page.</p> <p>Workaround</p> <p>If this occurs, the following workarounds are recommended:</p> <ul style="list-style-type: none"> • Have the user use the Windows login button instead (if enabled), or • Have the user change their password. |
| 9356 | DB Upgrade may time out when migrating Pathology Reports to new schema (applies to sites upgrading from versions earlier than HIPS 6.1.3) | <p>Sites upgrading from a version of HIPS earlier than 6.1.3 can be impacted by a DB Upgrade script that was introduced in HIPS 6.1.3 for migration of pathology reports into a newer table. This script can perform poorly if there have been a large number of pathology reports uploaded through the HIPS instance and this can result in the database upgrade process timing out and failing. Sites that upload many pathology reports should skip the migration script while upgrading the database by inserting a row in the dbo.SchemaVersions table, and run the script manually after the upgrade is complete. The SQL query to make the upgrade skip the migration of pathology reports is: INSERT dbo.SchemaVersions VALUES ('HIPS.PcehrDataStore.DBUpgrade.Scripts_6_1_3.20180702 5.Migrate Pathology Reports.sql', GETDATE()) To obtain a copy of the script to run manually please contact HIPS Support.</p> |
| 9471 | Form validation on HPI-I Identifier Search page does not work as expected when using Internet Explorer | <p>The form validation on the HPI-I Identifier Search page in HIPS UI does not work as expected when using Internet Explorer. The prefilled HPI-I prefix does not meet validation requirements as it is a partial HPI-I, and this causes validation errors when the form is submitted. This is particularly inconvenient when the user is attempting to perform a search by AHPRA ID and does not clear the HPI-I first.</p> <p>Workaround</p> <p>Users can work around this issue by:</p> <ul style="list-style-type: none"> • resubmitting the form after the initial attempt as the prefilled HPI-I value is cleared after the first submission, or • clearing the HPI-I value before submitting the form, or • use a different browser. |

| ADO ID | Summary | Issue description |
|--------|--|---|
| 10976 | Pathology and Diagnostic Imaging reports with local ID for multiple authors should not put the author of the first test as the report author | For messages that contain multiple OBR results authored by different individuals, the HIPS service should set the CDA atomic data for the individual details of the Document Author and Reporting Pathologist / Reporting Radiologist to null. This was implemented for OBR results where the author is identified by an HPI-I but was not updated to handle OBR results where the author is only identified by a local ID. As a result, HIPS is populating the author of the first test result as the author of the overall report. |
| 11296 | Pathology and Diagnostic Imaging report uploads should not abort processing when BypassHIService is true and IHI status is Service Unavailable | Pathology and Diagnostic Imaging report uploads are marked as failed on second retry when the HIPS instance is configured with BypassHIService set to true and the IHI status is flagged as Service Unavailable due to inability to contact the My Health Record when checking if a patient has a My Health Record. |
| 11334 | HPI-I Demographic Search does not send the Postal Delivery Type and Number when only one or the other is provided in the form | In HIPS UI on the HPI-I Demographic Search page, for the Unit, Level and PostalDelivery sections, you need to provide both a type and a number. If you provide a number without a type, the number is ignored. If you provide a type without a number, the type is ignored. Rather than ignore the input, the form should return a validation error to inform the user that both values are required. |
| 11376 | Validating HPI-I of report author from database does not respect BypassHIService | <p>When the</p> <ul style="list-style-type: none"> • BypassHIService setting is true, • there is no HI Service certificate available for the facility, • the facility has an HPI-I exemption, • there is a local ID of the author in the ORU message, • there is a HPI-I for that local identifier stored in the HIPS database and that HPI-I requires validation, <p>HIPS is not checking the BypassHIService setting and is attempting to get the HI Service certificate to connect to the HI Service to validate the HPI-I that is stored in the HIPS database. This results in an exception being thrown as the certificate cannot be found. HIPS should detect that the HPI-I requires validation, and that the setting BypassHIService is true, and fall back to creating the report using only the local identifier, rather than the HPI-I.</p> |
| 12270 | HIPS fails to process valid segments after any unknown segment in HL7 v2 messages | When processing HL7 messages, HIPS will stop processing any more segments once it hits any unknown segments. This can result in valid segments being ignored by HIPS. |

| ADO ID | Summary | Issue description |
|--------|--|--|
| 12508 | HIPS UI is unable to load any pages when the Server Technology Information is configured to be hidden on Windows Server 2012 | <p>A fix was implemented as part of <i>ADO 9212 Server Technology Information Disclosure</i> at the recommendation of a security assessment which removed the Server response headers when the HIPS-UI server returns information. This fix was not compatible with Windows Server 2012 and IIS <10.0 and caused the HIPS UI site to return a 500 response code when loading pages. It also causes the deployment script to error on the HIPS UI verification step.</p> <p>Resolution</p> <p>Option 1. The recommended solution for this issue is to install the new version of HIPS on the latest supported Windows OS.</p> <p>Option 2. If sites would like to proceed with the installation on Windows Server 2012, prior to installation sites should modify the <i>HIPS-Web\runtime\web\Web.config</i> located in the installation package by removing the following section from the file:</p> <pre data-bbox="730 920 1278 1025"><security> <requestFiltering removeServerHeader="true" /> </security></pre> <p>Please note the server hosting HIPS-UI will return information on what technology and version of the technology it is running if this option is used.</p> |
| 13005 | Misleading message is shown after clicking Upload button on the Upload Discharge Summary page in HIPS UI | <p>The message "Upload Successful The upload of document was successful." is shown after clicking Upload button on the Upload Discharge Summary page in HIPS UI. This message is misleading as the upload has only been added to the upload queue at this stage and must be processed before knowing if it was uploaded successfully. The message should instead be similar to the Remove Document function: "The upload of this document has been successfully added to the queue for processing."</p> |
| 13719 | Unhelpful error shown in Discharge Summary modal for larger PDF sizes | <p>The Upload Discharge Summary page in HIPS UI errors during the creation of a discharge summary if the attached PDF is larger than 4MB and does not show a user-friendly message. The form should allow files that meet the My Health Record file size limit of 10 MB and should show a useful message to users if they exceed the maximum size.</p> |
| 13816 | Discharge Summary supersede from HIPS UI will change the actions status to N/A temporarily | <p>After superseding a Discharge Summary using the Upload Discharge Summary page in HIPS UI the user is returned to the Episodes list and the Action for the episode for which the Discharge Summary was superseded is shown as "N/A" with the hover text "My Health Record not found" until the page is refreshed. This hover text is misleading, the patient does have a My Health Record.</p> |

| ADO ID | Summary | Issue description |
|--------|---|---|
| 13871 | Operational Insights alert "IHI Lookup Alert" should not include failures due to HI service unavailability | Although built to the requirements, while testing it was found the IHI Lookup Alert for Operational Insights currently has unreliable results due to the inclusions of HI Service availability outcomes. HI Service availability outcomes are managed by a separate metric so this metric should be redesigned in a future release to exclude the availability related results. |
| 13893 | Support users with only one name | <p>HIPS web services have validation on the user details in the web service request message (the LocalUser Data Transfer Object) that requires both Given Names and Family Name of the specified local user to be provided (not null or empty). Unfortunately, HIPS does not have any special support for users who have only one name. There is no OnlyName flag and HIPS cannot tell the difference between users who really have only one name, and users whose name was left out. HIPS therefore requires a value for both GivenNames and FamilyName.</p> <p>Workaround</p> <p>Sites that have users with only one name could work around this limitation by:</p> <ul style="list-style-type: none"> • duplicating the user's only name in both the First and Last name fields, or • putting the user's only name in one of the fields and a dummy value in the other. |
| 13895 | V4 ListAdmittedPatients operation does not return a fault when errors are encountered in the business logic or database | The Withdraw Consent page shows an empty list of patients and no error if there is a database error such as a timeout while retrieving the list of patients. |
| 14601 | Clicking the Print button on the Pathology or Imaging tab in Embedded mode shows errors in the console | When users click the Print button on the Pathology or Imaging tab in Embedded mode two JavaScript errors are logged to the console. These errors do not cause any issues with the application and can only be seen when the browser development tools are open. The print action behaves as intended. |
| 15766 | Internal anchor links do not work in View and Remove Uploaded Documents in Firefox | <p>In HIPS UI when viewing local documents in the 'View and Remove Uploaded Documents' area, internal anchor links within a CDA document, which are intended to scroll up or down to other points in the document, have no effect in Firefox. Most HIPS sites will be unaffected because they do not upload documents that contain links to other points in the document.</p> <p>Resolution</p> <p>People who use Firefox and view a locally uploaded document that contains internal anchor links will need to manually scroll the page rather than rely on the links within the document.</p> |

| ADO ID | Summary | Issue description |
|--------|--|---|
| 15766 | Internal anchor links do not work in View and Remove Uploaded Documents in Firefox | Links that scroll up and down within documents in iframes do not scroll the outer window in Firefox. This was fixed for documents when viewing the My Health Record in HIPS 8.2, but not for documents when viewing local documents in the 'View and Remove Uploaded Documents' area. Users can manually scroll up and down instead. |
| 15807 | Deployment script should not call deprecated ListHospitals web service | The HIPS deployment script submits a SOAP request to the obsolete HIPS ListHospitals service when attempting to verify successful deployment which results in a deprecation warning in the database after deployment. |
| 16944 | Different patients with the same name and date of birth, but different IHIs are flagged as duplicates when HIPS performs an IHI lookup using the IHI | Different patients with the same name and date of birth, but different IHIs can be flagged as duplicates after HIPS performs an IHI lookup using the IHI. When HIPS performs the lookup with the Medicare or DVA number it does not flag the patients as duplicates, however once the DateLastValidated is no longer within the configured period, HIPS starts to use the IHI to revalidate the IHI and when checking if there are any suspected duplicate patients in the HIPS database, only uses the first name, last name and date of birth which can result in a false duplicate being flagged. This scenario is very rare, however until resolved, the impact of this issue can be mitigated by enabling the IhiAllowMHRAccessForDuplicates setting which allows access to the My Health Record for patients with a duplicate status. |
| 17179 | Print button is not working in Firefox when opening the Help pdf document in the Medicine view tab | When using Firefox to view HIPS UI, users are unable to print the Help pdf document that is accessible by a link in the Medicines document. Workaround We do not expect users will want to print this help document, however if they do, they should use an alternate supported browser. |
| 17966 | Register button should not be changed to Update when there is an existing MRN alert on a record | In HIPS UI when manual registration is enabled for a non-PAS facility, if a user attempts to register a patient using an MRN that already exists in HIPS at the selected facility, an error will be displayed to inform the user. Once the user clears the error, the register button changes to an update button and if clicked will overwrite the existing patient with new details which in most cases results in a DemographicMismatch alert being set on the existing patient. If this occurs, the user should identify the original patient in their source system, find the patient in HIPS UI and update the patient with their original details. |

| ADO ID | Summary | Issue description |
|--------|--|--|
| 18860 | NotifyPasEvent should return an Error status instead of a Warning status when the separators declared in MSH fields 1 and 2 are not unique | A warning status is returned in the NotifyPasEvent response when the following separator is declared, for example: MSH ^~\& The double backslash in this example is invalid and HIPS will not process the message, however HIPS should return a status back that informs of a failure to process the message, rather than a Warning which implies it processed, but may need to be looked at. |
| 18862 | GetValidatedIhi returns `IHI not found` instead of `IHI retired` if the patient's IHI has been retired and the patient's IHI was not specified in patient demographic during admission | When registering a patient whose IHI is retired, the response from the HI Service is an error and no IHI is returned: "(ERROR) This IHI record has a 'Retired' IHI status and cannot be retrieved via this channel." If no IHI was included in the ADT message, then HIPS does not have the patient's IHI in the PatientMasterIhi table, and when calling IHIServiceV8_0_0.GetValidatedIhi it returns the message "No IHI was found for this patient and so the My Health Record cannot be accessed." It is not correct for HIPS to say "No IHI was found for this patient and so the My Health Record cannot be accessed." because HIPS has the information in the PatientMasterIhi table that the IhiStatusId is 3 and so it should return "The IHI for this patient is retired and cannot be used to access the My Health Record." instead. |
| 23307 | ADT message for new patient without Sex returns database error when EnableHL7NullHandling is true | If EnableHL7NullHandling is set to true and an ADT message is received by the NotifyPasEvent service that does not contain a value in PID-8 (administrative sex) a foreign key conflict database error is returned in the NACK message. Workaround <ul style="list-style-type: none"> • Leave the EnableHL7NullHandling feature enabled and just not take advantage of it for the Sex field, by ensuring to always send a value for the Sex field. When Sex is empty, send "U" for unknown, which HIPS maps to "not stated". OR • Disable EnableHL7NullHandling feature to revert to existing behaviour. |
| 25984 | Undefined shown when HIPS UI is unable to get the document type due to connection issues with HIPS Core | If the connection to HIPS Core is interrupted when opening a My Health Record document in HIPS UI, where the document title is usually displayed the text undefined is shown instead. HIPS UI should not show undefined in this scenario. |
| 26263 | Special characters in SourceSystemEpisodeID are not escaped when used in the Upload Discharge Summary page which can cause the episode to not be found | If special characters are included in the SourceSystemEpisodeID it can prevent users from uploading a Discharge Summary for that episode using the HIPS UI Upload Discharge Summary page as the episode cannot be found. This is due to the SourceSystemEpisodeID not being escaped when used in the url to find the episode. For example, special characters such as a the + character are treated as a space when provided in the url, rather than a plus. |

| ADO ID | Summary | Issue description |
|--------|--|--|
| 26978 | The root level Deploy.ps1 does not allow users to register HIPS after installation | The root level Deploy.ps1 file does not work when installers attempt to activate HIPS after installation. Although the script has the -ActivateHIPS and -RegistrationFilePath arguments available, they only activate HIPS if supplied while performing the installation. Installers should use the Deploy.ps1 file located in the HIPS Core Binaries\HIPS-AppServer\setup folder inside the HIPS installation package instead of activating after installing. |

Assurance

HIPS v8.3 has undergone the following conformance assessments:

- Healthcare Identifiers (HI) service
 - Notice of Connection (NOC)
- My Health Record system
 - Notice of Connection (NOC)
 - execution of all conformance test cases applicable to the functionality of HIPS.

Implementers are required to perform their own testing of My Health Record conformance test cases that relate to functionality outside of HIPS and declare conformity of their clinical systems in conjunction with HIPS to the My Health Record System Operator.

Documentation of conformance assessments performed for HIPS v8.3 is available from the Agency Help Centre at help@digitalhealth.gov.au or by phoning 1300 901 001.

Licence

The HIPS Binary Software is licensed under the *HIPS Binary Software – Software Licence Terms and Conditions* (included in the HIPS Binary Software Package).

The HIPS Source Code is licensed under the *Source Code License and Production Disclaimer* (included in the HIPS Source Code Software Package).

Support

The HIPS product is provided in both binary and source code form.

The Agency provides support to sites that use the Agency-provided binary version of HIPS.

Sites using HIPS binaries built from source code are generally not supported by the Agency. Third-party technical support is available from commercial partner organisations. Implementers are encouraged to take out support contracts with suitable support providers to ensure the successful implementation and operation of HIPS.

Implementers who do this must undertake comprehensive conformance testing with the Healthcare Identifiers (HI) Service and the My Health Record system.

Please contact the Agency for details of available support services.

For further support or to provide feedback, please email help@digitalhealth.gov.au

Future releases

HIPS will be released on an ad hoc basis, based on providing new functionality or other changes as required. Typically, this has a cadence of one annual major release and 2-3 minor releases per year, with patch releases as required.

Previous releases

| Date | Version |
|----------------|---|
| November 2021 | <p>HIPS v8.2.1 is a patch release that provides the following fixes:</p> <ul style="list-style-type: none"> • Patient Management page is slow to load the list of pinned patients when there are many patients in the facility • Users not given access to a facility (via SecurityGroup setting) can still access the patient summary page of a patient at any facility by modifying the URL • Facility without logo shows broken image with text 'Hpo logo' |
| May 2021 | <p>HIPS v8.2 is a minor release that provides the following features and improvements:</p> <ul style="list-style-type: none"> • New Immunisation view for easy access on patient landing page • New integrated patient management page for enhanced usability • New site configuration option for improved control • Several defect fixes and other minor enhancements |
| December 2020 | <p>HIPS v8.0.1 is a concurrent patch release for HIPS v8.0 and resolves a critical defect in HIPS UI.</p> |
| December 2020 | <p>HIPS v8.0 is a major product release addressing the following:</p> <ul style="list-style-type: none"> • Operational Insights • Up-to-date HIPS online documentation • Automated installation • Security by default • Deprecation of obsolete interfaces • And more – refer to HIPS 8.0 release notes for full detail. |
| April 2020 | <p>HIPS v7.3 is a minor product release addressing the following:</p> <ul style="list-style-type: none"> • Advance Care Planning and Goals of Care Uploads • HL7 Validation and processing enhancements • Security enhancements |
| September 2020 | <p>HIPS v7.2.4 is a patch release for HIPS v7.2. It provides added resilience for database timeouts after uploading documents.</p> |
| July 2020 | <p>HIPS v7.2.3 is a patch release for HIPS v7.2. It provides important defect fixes for the use of the HIPS User Interface in Embedded Mode.</p> |
| February 2020 | <p>HIPS v7.2.2 is a patch product release addressing several defects on the HIPS UI View and Remove Documents screen. Note that some document components in v7.2 have not required updating for v7.2.2 and remain relevant to v7.2.2.</p> |
| September 2019 | <p>HIPS v7.2.1 is a patch product release addressing a defect regarding patients without an IHI not appearing in the "Patients without IHI" list in HIPS UI Note that some document components in v7.2 have not required updating for v7.2.1 and remain relevant to v7.2.1.</p> |

| Date | Version |
|---------------|---|
| August 2019 | <p>HIPS v7.2 is a minor product release addressing the following:</p> <ul style="list-style-type: none"> • Pharmacist Shared Medicines List with HPI-I relaxation • CSP certificates • IHI search by address • IHI creation for newborns • My Health Record Assisted Registration for dependants |
| July 2020 | <p>HIPS v7.1.4 is a patch release that removes an issue that could expose a HIPS site to HI Service compliance risks.</p> |
| July 2020 | <p>HIPS v7.1.3 is an incremental release that incorporates an enhancement to the HIPS v7.1.2 patch release.</p> |
| January 2020 | <p>HIPS v7.1.2 release incorporates enhancements to the HIPS v7.1.1 minor release:</p> <ul style="list-style-type: none"> • Add user's name to ID field in HI Service requests for auditing |
| June 2019 | <p>HIPS v7.1.1 release incorporates enhancements and defect fixes to the HIPS v7.1.0 minor release:</p> <ul style="list-style-type: none"> • User interface advance search improvements; • User interface patient summary enhancements; and • Implementing defect fixes found from v7.1.0 acceptance testing undertaken by Tasmania and Victoria. |
| March 2019 | <p>HIPS v7.1.0 is a minor product release candidate used for acceptance testing and addresses the following:</p> <ul style="list-style-type: none"> • defect fixes • user interface advance search improvements • user interface patient summary enhancements. |
| March 2019 | <p>HIPS v7.0.2 is a minor product release addressing the following:</p> <ul style="list-style-type: none"> • Corrects issues with the QueuedPcehrOperation view introduced in HIPS 7.0: The view incorrectly referenced columns from the PcehrAudit table that may be removed as part of audit data migration; the view performed poorly for large data sets. |
| February 2019 | <p>HIPS v7.0.1 is a minor product release addressing the following:</p> <ul style="list-style-type: none"> • HIPS-UI: Forward to Different Logout Screen Depending on Entry Route; • HIPS-UI: Auto Forward to a Logout Screen (on session timeout); • HIPS-UI: Move Lookup by MRN above table of current patients on View My Health Record page; • HIPS-Core: Extend GetPatientParticipationStatus service operation to return additional information. <p>For a comprehensive list of changes, please refer to the Release Notes for HIPS v7.0.1.</p> |
| December 2018 | <p>HIPS v7.0 is a major product release that significantly improves the performance of HIPS for very high load scenarios, particularly for Pathology Report and Diagnostic Imaging Report documents.</p> <p>It consolidates a number of previous branch releases and customisations, making it a suitable target release for upgrades of outdated HIPS installations.</p> <p>The following key improvements are included in this release:</p> <ul style="list-style-type: none"> • significant performance improvements for very high upload scenarios, particularly for Pathology Report and Diagnostic Imaging Report documents • improved recovery from temporary outages of My Health Record or HI Service • proactive monitoring and reporting of key alert conditions • unified logging of errors from all HIPS components • significant size reduction of audit log, reducing storage requirements • improved support for HPI-I relaxations • support for All Facilities searches and searches for non-inpatients • incorporation of customisations of previous HIPS releases (Northern Territory, South Australia). <p>For a comprehensive list of changes, please refer to the Release Notes for HIPS v7.0.</p> |
| November 2018 | <p>HIPS v6.2.2 was a controlled release for users upgrading from HIPS v6.2.1 who are not yet ready to upgrade to HIPS v7.0.</p> <p>This version of HIPS resolves a starvation ("Ninject binding") issue for the HIPS User Interface that can cause the user interface to stall in case of larger numbers of parallel user sessions.</p> |

| Date | Version |
|----------------|---|
| October 2018 | <p>HIPS v6.2.1 was a controlled release for users upgrading from HIPS v6.1 who are not yet ready to upgrade to HIPS v7.0. This version of HIPS provides a substantial number of enhancements and defect fixes, including:</p> <ul style="list-style-type: none"> • inclusion of the HIPS Monitoring Tool in the main HIPS product • support for automated removals of Pathology Report and DI Report documents: Document Set ID returned for each uploaded HL7™ ORU message • database timeout errors no longer lead to duplication of document sets • support for display of pre-admission episodes • new filter to display only non-inpatients • EPMI information now displayed for patients not registered in target hospital • new configuration flag to prevent issuing of dummy MRNs • login button automatically displayed as disabled after being pressed. <p>This version includes the reliability improvements for the HIPS Core from HIPS v6.1.2 that improve the stability for scenarios with very large numbers of uploaded Pathology Report and Diagnostic Imaging Report documents.</p> |
| October 2018 | <p>HIPS v6.1.5 was a controlled release for users upgrading from HIPS v6.1.4 who are not yet ready to upgrade to HIPS v7.0. This version of HIPS resolves HIPS User Interface defects affecting the upload function for Level 1A Discharge Summary documents and the display of outdated information in the document list of the Remove Document page.</p> |
| September 2018 | <p>HIPS v6.1.4 was a controlled release for users upgrading from HIPS v6.1.3 who are not yet ready to upgrade to HIPS v7.0. This version of HIPS resolves a HIPS User Interface issue with the Remove Document page affecting users of Internet Explorer, in which the Refresh button led to the display of potentially outdated information.</p> |
| December 2018 | <p>HIPS v6.1.3.1 was a controlled release for users upgrading from HIPS v6.1.3 who are not yet ready to upgrade to HIPS v7.0. This version of HIPS resolves a starvation (“Ninject binding”) issue for the HIPS User Interface that can cause the user interface to stall in case of larger numbers of parallel user sessions.</p> |
| August 2018 | <p>HIPS v6.1.3 was a controlled release for users upgrading from HIPS v6.1.2 who are not yet ready to upgrade to HIPS v7.0. This version of HIPS improves the HIPS User Interface workflow for removing pathology and diagnostic imaging reports.</p> |
| November 2018 | <p>HIPS v6.1.2.1 was a controlled release for users upgrading from HIPS v6.1.2 who are not yet ready to upgrade to HIPS v6.1.3. This version of HIPS resolves a starvation (“Ninject binding”) issue for the HIPS User Interface that can cause the user interface to stall in case of larger numbers of parallel user sessions.</p> |
| June 2018 | <p>HIPS v6.1.2 was a controlled release for users upgrading from HIPS v6.1.1 who are not yet ready to upgrade to HIPS v6.2.1. This version of HIPS is focused on improving the reliability of the HIPS Core for very large numbers of uploaded Pathology Report and Diagnostic Imaging Report documents.</p> |
| April 2018 | <p>HIPS v6.1.1 was a controlled release for users upgrading from HIPS v6.1 who are not yet ready to upgrade to HIPS v6.2.1. This version of HIPS contains multiple minor enhancements and defect fixes for both HIPS Core and HIPS UI.</p> |
| November 2016 | <p>HIPS v6.1 merges the functionalities of the previously released eHealth Integration Sample Code (eHISC) and HIPS products. HIPS v6.1 supersedes and combines the functionality of HIPS v5.0 and eHISC v6.0. This version and all future releases of the merged product will be published as HIPS releases only. HIPS v6.1 introduces support for the following views of the My Health Record system:</p> <ul style="list-style-type: none"> • Pathology Report View • Diagnostic Imaging Report View • Health Record Overview. <p>The following functionality from HIPS v5.0 that was not part of eHISC v6.0 has been included in this release:</p> <ul style="list-style-type: none"> • support for Secure Message Delivery (SMD) • integration with national directory services (NHSD, NEPS). |

| Date | Version | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|--------------------|-------|----------------------|---|----------------------|---|-------------------|--|------------|--|-------------------------------|--|------------------------------|--|-----------------|---|-------------------|---|-----------------------|--|--------|--|-------------------------------------|--|-----------------------------|---|--------------------------------|---|-------------|--|------------------|---|
| April 2016 | <p>HIPS v6.1 of the eHealth Integration Sample Code (eHISC) lets you upload pathology and diagnostic imaging reports to the My Health Record system without needing to generate CDA documents.</p> <p>This eHISC release introduces the ability to upload HL7™ v2 pathology and diagnostic imaging reports to the My Health Record system as CDA documents. eHISC automatically converts HL7™ v2 ORU messages into eHealth Pathology Report and eHealth Diagnostic Imaging Report CDA documents for upload to the My Health Record system.</p> <p>The conversion capability supports ORU messages containing a PDF version of the diagnostic report. The resulting CDA documents do not contain any structured report information but instead refer to the PDF report, which is extracted from the ORU message and attached to the CDA document.</p> <p>eHISC accepts ORU messages via both its SOAP web service interface and its new low-level MLLP interface. MLLP offers an easy-to-use integration path, as it is already widely supported by existing laboratory and radiology information system implementations.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| February 2016 | <p>eHealth Integration Sample Code (eHISC) v2.0.3</p> <p>Release rationale The enhancements made to eHISC v2.0.3 are listed below.</p> <table border="1" data-bbox="344 768 1423 1921"> <thead> <tr> <th data-bbox="352 786 528 808">Change description</th> <th data-bbox="635 786 687 808">Notes</th> </tr> </thead> <tbody> <tr> <td data-bbox="352 835 560 857">PCEHR NOC compliance</td> <td data-bbox="635 835 1310 857">eHISC 2.0.3 includes changes made to the system for PCEHR NOC compliance.</td> </tr> <tr> <td data-bbox="352 884 560 907">PCEHR CCA compliance</td> <td data-bbox="635 884 1398 936">Changes made to the system for PCEHR CCA compliance: Removal of DVA number from Level 1A Discharge Summary, change to Mode of Separation display names.</td> </tr> <tr> <td data-bbox="352 963 520 985">HI CCA compliance</td> <td data-bbox="635 963 1366 1014">Changes made to the system for Healthcare Identifier CCA compliance: Duplicate IHI alerting. Non-active HPI-I warning.</td> </tr> <tr> <td data-bbox="352 1041 459 1064">PCEHR View</td> <td data-bbox="635 1041 1297 1064">Handle the error if a patient has more than 1000 documents of their PCEHR.</td> </tr> <tr> <td data-bbox="352 1090 512 1142">PCEHR Advertised improvements</td> <td data-bbox="635 1090 1398 1164">Add a new method IsPcehrAdvertisedLocal to look up a patient’s PCEHR status in the local data without connecting to the PCEHR. This was requested due to the UI making a large number of calls to the PCEHR.</td> </tr> <tr> <td data-bbox="352 1191 560 1243">NEHTA CDA® Generator Library</td> <td data-bbox="635 1191 1398 1243">Updated the NEHTA CDA Generator Library to only generate a single section in the CDA document when creating a Discharge Summary 1A document.</td> </tr> <tr> <td data-bbox="352 1270 507 1292">Patient Summary</td> <td data-bbox="635 1270 1390 1344">Added a date range selector to allow the user to reduce the number of documents retrieved from the PCEHR. This is to work around the 1000 document limitation on the PCEHR.</td> </tr> <tr> <td data-bbox="352 1370 520 1393">NEHTA Stylesheets</td> <td data-bbox="635 1370 1042 1393">Update the NEHTA Stylesheets to version 1.2.9</td> </tr> <tr> <td data-bbox="352 1420 536 1442">Assisted Registration</td> <td data-bbox="635 1420 1398 1471">Improved error information displayed to the user so they have a greater opportunity to resolve the issue and register the patient.</td> </tr> <tr> <td data-bbox="352 1498 416 1520">Logout</td> <td data-bbox="635 1498 1398 1550">A new configuration setting has been added allowing the Logout button to be removed for implementations that do not want users to be able to logout.</td> </tr> <tr> <td data-bbox="352 1576 544 1628">eHISC UI user security improvements</td> <td data-bbox="635 1576 1406 1650">As part of the test deployment of eHISC 2.0.3, issues were found with the integration with some Active Directory installations involving multiple domains with one-way trusts. The Active Directory integration has been updated to make it more flexible.</td> </tr> <tr> <td data-bbox="352 1677 619 1700">Demographic mismatch status</td> <td data-bbox="635 1677 1385 1729">An issue was found that prevented the demographic mismatch alert status from being saved into the IHI record after a Medicare or DVA number change.</td> </tr> <tr> <td data-bbox="352 1756 584 1807">Prescription and Dispense View</td> <td data-bbox="635 1756 1414 1807">Fixed a bug the prevented users from seeing a patient’s Prescription and Dispense View if the patient had no other documents loaded to the PCEHR.</td> </tr> <tr> <td data-bbox="352 1834 459 1856">Gain Access</td> <td data-bbox="635 1834 1334 1856">Fixed a bug where Gain Access would fail for patients without a current episode.</td> </tr> <tr> <td data-bbox="352 1883 520 1906">Withdraw Consent</td> <td data-bbox="635 1883 1382 1935">Fixed a bug that prevented withdraw of consent to all of a patient’s episodes if any of them had a document already uploaded.</td> </tr> </tbody> </table> | Change description | Notes | PCEHR NOC compliance | eHISC 2.0.3 includes changes made to the system for PCEHR NOC compliance. | PCEHR CCA compliance | Changes made to the system for PCEHR CCA compliance: Removal of DVA number from Level 1A Discharge Summary, change to Mode of Separation display names. | HI CCA compliance | Changes made to the system for Healthcare Identifier CCA compliance: Duplicate IHI alerting. Non-active HPI-I warning. | PCEHR View | Handle the error if a patient has more than 1000 documents of their PCEHR. | PCEHR Advertised improvements | Add a new method IsPcehrAdvertisedLocal to look up a patient’s PCEHR status in the local data without connecting to the PCEHR. This was requested due to the UI making a large number of calls to the PCEHR. | NEHTA CDA® Generator Library | Updated the NEHTA CDA Generator Library to only generate a single section in the CDA document when creating a Discharge Summary 1A document. | Patient Summary | Added a date range selector to allow the user to reduce the number of documents retrieved from the PCEHR. This is to work around the 1000 document limitation on the PCEHR. | NEHTA Stylesheets | Update the NEHTA Stylesheets to version 1.2.9 | Assisted Registration | Improved error information displayed to the user so they have a greater opportunity to resolve the issue and register the patient. | Logout | A new configuration setting has been added allowing the Logout button to be removed for implementations that do not want users to be able to logout. | eHISC UI user security improvements | As part of the test deployment of eHISC 2.0.3, issues were found with the integration with some Active Directory installations involving multiple domains with one-way trusts. The Active Directory integration has been updated to make it more flexible. | Demographic mismatch status | An issue was found that prevented the demographic mismatch alert status from being saved into the IHI record after a Medicare or DVA number change. | Prescription and Dispense View | Fixed a bug the prevented users from seeing a patient’s Prescription and Dispense View if the patient had no other documents loaded to the PCEHR. | Gain Access | Fixed a bug where Gain Access would fail for patients without a current episode. | Withdraw Consent | Fixed a bug that prevented withdraw of consent to all of a patient’s episodes if any of them had a document already uploaded. |
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| PCEHR View | Handle the error if a patient has more than 1000 documents of their PCEHR. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PCEHR Advertised improvements | Add a new method IsPcehrAdvertisedLocal to look up a patient’s PCEHR status in the local data without connecting to the PCEHR. This was requested due to the UI making a large number of calls to the PCEHR. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEHTA CDA® Generator Library | Updated the NEHTA CDA Generator Library to only generate a single section in the CDA document when creating a Discharge Summary 1A document. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Patient Summary | Added a date range selector to allow the user to reduce the number of documents retrieved from the PCEHR. This is to work around the 1000 document limitation on the PCEHR. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEHTA Stylesheets | Update the NEHTA Stylesheets to version 1.2.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Assisted Registration | Improved error information displayed to the user so they have a greater opportunity to resolve the issue and register the patient. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Logout | A new configuration setting has been added allowing the Logout button to be removed for implementations that do not want users to be able to logout. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| eHISC UI user security improvements | As part of the test deployment of eHISC 2.0.3, issues were found with the integration with some Active Directory installations involving multiple domains with one-way trusts. The Active Directory integration has been updated to make it more flexible. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Demographic mismatch status | An issue was found that prevented the demographic mismatch alert status from being saved into the IHI record after a Medicare or DVA number change. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prescription and Dispense View | Fixed a bug the prevented users from seeing a patient’s Prescription and Dispense View if the patient had no other documents loaded to the PCEHR. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gain Access | Fixed a bug where Gain Access would fail for patients without a current episode. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Withdraw Consent | Fixed a bug that prevented withdraw of consent to all of a patient’s episodes if any of them had a document already uploaded. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

February 2015 eHealth Integration Sample Code (eHISC) v2.0

Release rationale

eHISC v2.0 had multiple enhancements, as listed below.

| Change description | Notes |
|---|--|
| Patients Without IHI in Web UI | New web service operations and Web UI enhancements to allow viewing and printing a list of admitted patients whose IHI was not found. |
| Withdrawal of Consent in Web UI | New web service operations and Web UI enhancements to allow listing and searching for patients and recording their withdrawal of consent to upload documents to the PCEHR system on an episode-by-episode basis. |
| Disclosure of Hidden PCEHR in Web UI | New web service operations and Web UI enhancements to allow listing and searching for patients and recording their disclosure of the existence of a hidden PCEHR record. |
| Removing Documents from PCEHR in Web UI | New web service operations and Web UI enhancements to allow listing and searching for patients, viewing uploaded documents and removing uploaded documents from the PCEHR system. |
| Patient Landing Page in Web UI | Web UI enhancements to support embedding the eHISC PCEHR Web Viewer into existing clinical applications. |
| Upload Level 1A Discharge Summary in Web Services | New web service operation to allow clinical systems to supply a discharge summary in PDF format along with minimal required metadata, to create a Level 1A CDA document with the PDF as the non-CDA body item, and upload this package to the PCEHR system. |
| Registered Date of Birth | Enhancement to the IHI processing where, when enabled, eHISC will store the date of birth used in a successful IHI search along with the other patient demographics. |
| Enterprise ID | Enhancement to the patient identifiers to allow a new type of identifier called Registered Enterprise Patient. This identifier holds the same information as the current State Patient Identifier but will create a Hospital Patient record if one does not currently exist for the patient. |
| Upload Pathology Report and Diagnostic Imaging Report | This release includes support for uploading Pathology Report and Diagnostic Imaging Report documents to the PCEHR system. |
| Contracted Service Provider (CSP) and Multitenant | <p>The Multi-Tenant and CSP project has extended the eHISC-Core product to support the use of eHISC in an environment where a Contracted Service Provider (CSP) operates HIPS on behalf of several Healthcare Provider Organisations (HPO) that may not be permitted to share Healthcare Identifiers.</p> <p>Multi-Tenant for IHI ensures that each HPO must obtain a patient's IHI from the HI Service separately, and cannot use the cached value that is stored by another HPO.</p> <p>CSP for HI Service allows a CSP that operates HIPS to connect to the HI Service for IHI and HPI-I lookups using a Medicare certificate issued to the CSP, instead of connecting with the Medicare certificate issued to each HPO.</p> <p>CSP for PCEHR allows a CSP that operates HIPS to connect to the PCEHR system using a "NASH PKI Certificate for Supporting Organisations" issued to the CSP, instead of connecting with the "NASH PKI Certificate for Health Provider Organisations" issued to each HPO.</p> <p>Note: a CSP that does not have access to the NASH certificate for each HPO will not be able to upload documents to the PCEHR, because the HPO certificate is required for CDA packaging. Viewing the PCEHR is still possible in this scenario.</p> |
| SQL Server 2012 Compatibility and High Availability Disaster Recovery through SQL Always On | Modifications of all databases in the solution to upgrade all SQL scripts to ensure compatibility with Microsoft SQL Server 2012, whilst ensuring that all SQL scripts are still backward-compatible with SQL Server 2008 R2. Ensuring that the eHISC server database solution is able to be implemented and supported in a Microsoft SQL Server 2012 Always On Cluster. |
| Document Upload HPI-O Validation | <p>eHISC 1.0 added extra validation of a CDA document before uploading it. One of these steps was in error as the custodian does not need to have the same HPI-O as the uploading organisation, but the validation required it to be the same HPI-O.</p> <p>In lieu of validating the HPI-O directly with the HI Service, the resolution applied in this release is to allow the custodian HPI-O to be any of the HPI-O numbers registered within the</p> |

| Date | Version |
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| <p>April 2014</p> | <p>same eHISC instance, as the validity of these numbers is checked by the eHISC system administrator during configuration.</p> <p>HealthProviderOrganisationPatient Advertised Status Update Fix</p> <p>A fix was applied for updates to the HealthProviderOrganisationPatient table to only update the PCEHR advertised or PCEHR disclosure status for a specific HPI-O against a specific Patient Master. In the previous version of eHISC all records for a singular, specific Patient Master in the HealthProviderOrganisationPatient table were updated regardless of the HPI-O being specified. This was restricted to records that were already existing in the HealthProviderOrganisationPatient table, which can be added via a positive check for a PCEHR status or a PCEHR disclosure, where the patient had flipped their PCEHR status to hidden in a hospital after previously having the PCEHR visible and then declaring the PCEHR at a subsequent visit.</p> <p>Release rationale</p> <p>The eHealth Integration Sample Code comprises the source code and associated documentation for the Healthcare Identifier and PCEHR System (HIPS) software, developed by a third-party vendor on behalf of a number of states and territories.</p> |

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