



## **HIPS**

### **Interface Change Log**

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Approved for external use

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# 1 Introduction

## 1.1 Purpose

The purpose of this document is to list changes to HIPS web service interfaces and to allow implementers to understand the implications of the various interface changes and the impacts they may have to the implementation of HIPS in their particular environment, where connected systems interfaces may need to be changed or re-tested following HIPS upgrades.

## 1.2 Intended audience

The intended audience for this document is software developers and implementers of the HIPS product suite.

## 1.3 Scope

This document lists all web service interface changes starting with HIPS 6.1. Interface changes are classified into syntactic and semantic changes. Syntactic changes impact the WSDL of the HIPS web service interface. Semantic changes impact the behaviour of web services without necessarily impacting their WSDLs. Both change categories are equally important for HIPS implementers.

## 1.4 Assumptions

The following assumptions have been made in the development of this document:

- the reader has an understanding of the HIPS products and their use

## 2 Interface Changes

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-005	4.0.0 - 6.0.0	6.1.0	Semantic	Changed	IPCEHRService	UploadOrSupersedeDocument	HIPS now manages scenarios in which multiple active episodes exists for the same patient (with the same admission date and time) in a predictable manner. The upload of discharge summaries no longer triggers an error if multiple episodes exist for a patient with admission times differing by no more than 1 minute.
EHISC-008	4.0.0 - 6.2.0	6.2.1	Semantic	Changed	IConsentService, IPCEHRService, IPcehrServiceV2	GetPatientParticipationStatus, RefreshPatientParticipationStatus	HIPS web services now return the correct My Health Record participation status when a patient is admitted to a second facility within 24 hours.
EHISC-018	6.0.0	6.1.0	Semantic	Changed	IPcehrServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Where there are multiple reporting pathologists or radiologists who have uploaded pathology reports or diagnostic imaging reports, all of their names are now listed in the narrative of the CDA documents generated by HIPS.
EHISC-024	6.0.0	6.1.0	Semantic	Changed	ICdaService, IPCEHRService, IPcehrServiceV2	PackageCdaDocument, UploadOrSupersedeDocument, UploadOrSupersedeDischargeSummary Level1A, UploadOrRemovePathology, UploadOrRemoveImaging	Improved error message for incorrectly configured document signing certificates. NASH certificates configured for document signing are now validated by HIPS before attempting to use it as part of a document upload.
EHISC-029	4.0.0 - 6.2.0	6.2.1	Semantic	Changed	IPCEHRService	UploadOrSupersedeDocument	HIPS services now return errors relating to the correct document type rather than returning errors relating to Discharge Summary when the document in question is of a different type.
EHISC-031	6.0.0	6.1.0	Semantic	Changed	IPcehrServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Mapping of test results from OBR-4 corrected for pathology reports and diagnostic imaging reports.
EHISC-062	4.0.0 - 6.2.0	6.2.1	Semantic	Changed	IDatabaseLoaderService	NotifyPasEvent	The ADT interface now clears the stored discharge date when a message containing a Cancel Discharge event is received.
EHISC-068	4.0.0 - 6.1.5	6.2.0	Syntactic	New	IPatientServiceV3	ListPatientEpisodesInHospital, ListPatientsInHospital, ListAdmittedPatients	New services to retrieve patient and episode lists for HIPS UI with additional filters on DaysAfterService and DaysBeforePreAdmit.

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-070	4.0.0 - 6.2.0	6.2.1	Semantic	Changed	IAssistedRegistrationService, ICdaService, IConsentService, IIHIService, IPatientService, IPatientServiceV2, IPatientServiceV3, IPCEHRService, IPcehrServiceV2	CheckConsent, GainAccessEmergency, GainAccessWithCode, GainAccessWithoutCode, GetChangeHistoryView, GetDocumentList, GetDocumentListActive, GetEpisodeDetails, GetLocalUploadedDocument, GetPatientDisclosureDetails, GetPatientParticipationStatus, GetValidatedIhi, GetView, IsPcehrAdvertised, ListPatientEpisodesInHospital, ListUploadedDocuments, RecordConsent, RecordDisclosure, RegisterDependant, RegisterPatient, Remove, ReregisterDependant, ReregisterPatient, RetrieveDocument, UploadOrSupersedeDocument, GetDiagnosticImagingReportView, CreateDischargeSummaryLevel1A, GetPatientInHospitalDetails, GetHealthRecordOverview, GetPathologyReportView, ListPatientEpisodesInHospital, IsPcehrAdvertisedLocal, UploadOrSupersedeDischargeSummaryLevel1A, RefreshPatientParticipationStatus	A new site-wide configuration option has been added to the HIPS Core to allow a HIPS implementer to disable the creation of a dummy MRN when a validated IHI identifier is used and the patient is not registered in the current facility.
EHISC-075	5.0.0 - 6.2.0	6.2.1	Semantic	Changed	IDirectorySynchronisationService	Synchronise	HIPS P2P can now add new provider identifier types to the LHSD when an identifier of an unexpected type is encountered in data obtained from NHSD. The size of database columns for provider organisation name and description, provider location description, and street name were increased to accommodate unexpectedly long values in the production data load.

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-076	5.0.0 - 6.2.0	6.2.1	Semantic	Changed	IDirectorySynchronisationService	Synchronise	HIPS P2P now includes functionality that revalidates a provider's HPI-I when NEPS indicates a provider's name or HPI-I has changed, and raises an alert if the HPI-I is invalid.
EHISC-077	5.0.0 - 6.2.0	6.2.1	Semantic	Changed	IDirectorySynchronisationService, IMessageDeliveryService	Synchronise, SendMessage, RetryMessage	HIPS P2P now stores the original delegate URI of each ELS interaction record and includes the delegate URI in requests to validate the interaction record.
EHISC-078	4.0.0 - 6.2.0	6.2.1	Semantic	Changed	IDatabaseLoaderService	NotifyPasEvent	The ADT interface now correctly resolves IHI alerts for potential replica patient records when merging a patient without an IHI into a patient with an IHI alert.
EHISC-085	6.0.0 - 6.2.0	6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS Pathology Report upload functionality now leaves the Requester Order ID blank if the Order ID value is not unique across all OBR segments.
EHISC-087	6.0.0 - 6.2.0	6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS Pathology and Diagnostic Imaging functions now support healthcare organisations that are granted an exemption from the requirement to provide the HPI-I of the author and reporting pathologist / radiologist. HIPS services now allow the OID for local provider identifiers to be specified via a mapping table in HIPS so that local provider identifiers can be included in the generated CDA document without the provider's HPI-I needing to be stored into the HIPS provider table first.
EHISC-088	6.0.0 - 6.2.0	6.2.1 & 7.0.0	Syntactic & Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	A new PCEHRServiceV3 has been added to return the Document Set ID and Admission Date Time when the web services are called to upload or pathology or diagnostic imaging reports. This allows implementers to use the Remove web service to remove pathology or diagnostic imaging reports from the My Health Record. These web service interfaces were moved from IPcehrServiceV3 to IPathologyImagingServiceV2 in HIPS 7.0.0.
EHISC-095	4.0.0 - 6.2.0	6.2.1	Semantic	Changed	IPCEHRService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrSupersedeDocument, UploadOrSupersedeDischargeSummary Level1A, UploadOrRemovePathology, UploadOrRemoveImaging	HIPS services no longer upload amended documents as new documents when the database load being high causes a timeout on the look up of previous document versions.
EHISC-100	6.0.0 - 6.1.1.4 & 6.2.0	6.1.1.5 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS pathology and diagnostic imaging upload services now correctly handle messages where patient records with the same MRN exist in multiple healthcare facilities.



Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-101	6.0.0 - 6.1.1.5 & 6.2.0	6.1.1.6 & 6.2.1	Syntactic & Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology	HIPS pathology upload service now supports specifying the Pathology Report ID via mappings from OBR-3 Filler Order Number (when there is one OBR segment) and from OBX-3.4 Alternate Identifier (when there is more than one OBR segment) and from a new "ReportID" parameter.
EHISC-102	6.0.0 - 6.1.1.4 & 6.2.0	6.1.1.5 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	The patient date of birth in pathology and diagnostic imaging reports generated by HIPS no longer includes the specific time of day.
EHISC-103	6.0.0 - 6.1.1.5 & 6.2.0	6.1.1.6 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS pathology and diagnostic imaging upload services no longer include an "asEmployment" element with no "employerOrganization" element when the requesting organisation name is not supplied. For requesting organisation to be populated, the organisation name must be supplied in the requester assigning facility namespace ID subcomponent. The requesting organisation HPI-O may optionally be supplied in the universal ID subcomponent using the OID form of HPI-O and the universal ID type "ISO". For Pathology Report, the asEmployment element is optional and will be omitted entirely when the organisation name is not specified. For Diagnostic Imaging Report, the asEmployment element is mandatory, so the name element at the XPath /ClinicalDocument/participant/associatedEntity/associatedPerson/asEmployment/employerOrganization/asOrganizationPartOf/wholeOrganization/name will have the attribute nullFlavor="UNK" if the organisation name is not specified.
EHISC-104	6.0.0 - 6.1.1.6 & 6.2.0	6.1.1.7 & 6.2.1	Semantic	Changed	ICdaService, IPcehrServiceV2	CreateDischargeSummaryLevel1A, UploadOrSupersedeDischargeSummaryLevel1A	HIPS Core web services now allow a Level 1A Discharge Summary to be created and uploaded by HIPS when a patient discharge date and time is not provided. When the discharge date is not specified, the encounter period will have a low value (admit date) and no high value (discharge date).
EHISC-106	6.0.0 - 6.1.1.5 & 6.2.0	6.1.1.6 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS pathology and diagnostic imaging upload services no longer place an empty given name element in the CDA documents produced when the source HL7® v2 message has an empty string for the given name of the provider. The given name element is now omitted in this case.
EHISC-113	5.0.0 - 6.1.1.1 & 6.2.0	6.1.1.2 & 6.2.1	Semantic	Changed	IDirectorySynchronisationService	Synchronise	HIPS P2P now supports retrieval of Interaction Records for Secure Message Delivery from the NEPS service operation 'Get Interaction Records for Provider Organisation' for all organisations that have an HPI-O identifier.

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-114	6.0.0 - 6.1.1.3 & 6.2.0	6.1.1.4 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Pathology and diagnostic imaging documents can now be removed from My Health Record using an HL7® message with a PI type patient identifier. Patient identifier extraction logic was modified to find the primary identifier from the sending facility for both uploading and removing documents.
EHISC-115	6.0.0 - 6.1.1.2 & 6.2.0	6.1.1.3 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Pathology and diagnostic imaging documents can now be removed from My Health Record using an HL7® message where there is no existing record in the HL7MessageLog table matching the sending application, sending facility, message control ID and message time.
EHISC-116	6.0.0 - 6.1.1.3 & 6.2.0	6.1.1.4 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Pathology and diagnostic imaging documents can now be removed from My Health Record using an HL7® message where the universal ID component of the sending facility is not supplied. The namespace ID component alone is sufficient.
EHISC-119	6.0.0 - 6.1.1.5 & 6.2.0	6.1.1.6 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Pathology and diagnostic imaging documents can now be removed from My Health Record where the patient has multiple documents uploaded within 1 minute of the original document upload. HIPS services no longer create a multiple episode stub and raise an error in this situation.
EHISC-120	6.0.0 - 6.1.1.4 & 6.2.0	6.1.1.5 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS pathology and diagnostic imaging upload services can now populate secondary patient identifiers from an HL7® message into the CDA document. For secondary identifiers to be populated, the applicable root OID must be supplied in the patient identifier assigning authority universal ID subcomponent and "ISO" in the universal ID type subcomponent.
EHISC-122	6.0.0 - 6.1.1.5 & 6.2.0	6.1.1.6 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS pathology and diagnostic imaging upload services now add the healthcare facility logo configured in the Logo column of the Hospital table to the CDA documents generated for pathology and diagnostic imaging reports.

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-124	4.0.0 - 6.2.2	7.0.0	Semantic	Changed	IHIService	GetValidatedIhi	<p>In previous product versions, in the case where a patient had been registered in the HIPS database with an incorrect and/or invalid DVA number, when a call was subsequently made to the HIPS IhiService/GetValidatedIhi service operation, HIPS was unable to validate the IHI with the national HI Service but returned a misleading response message stating "Retuning a stale IHI because HI service was unavailable" and some minimal IHI information.</p> <p>This behaviour has been modified as follows when the interaction with the HI Service to obtain a validated IHI returns an error and no IHI is available locally:</p> <ul style="list-style-type: none"> <li>• The message contained in the HipsResponse/HipsErrorMessage element states: "An error prevented HIPS from successfully contacting the HI Service to retrieve a validated IHI and no IHI is available locally."</li> <li>• The status contained in the HipsResponse/Status element is "HiServiceError", reflecting that the HI Service returned an error that prevented a validated IHI being obtained.</li> <li>• Additional information available in the response from the HI Service is populated into the HipsResponse as follows: <ul style="list-style-type: none"> <li>○ The ResponseCode is set to the code of the first highest severity service message returned from the HI Service.</li> <li>○ The ResponseCodeDescription is set to the reason of the first service message returned from the HI Service.</li> <li>○ The ResponseCodeDetails is set to string constructed from the values of each service message (including any detail elements) returned from the HI Service.</li> </ul> </li> <li>• The ValidatedIhi element does not contain any values.</li> <li>• An appropriate corresponding error is logged to the HIPS System Error Log, including details returned from the HI Service.</li> </ul>

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-132	4.0.0 - 6.2.2	7.0.0	Semantic	Changed	IAssistedRegistrationService, ICdaService, IConsentService, IIHIService, IPatientService, IPatientServiceV2, IPatientServiceV3, IPCEHRService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2, IDatabaseLoaderService	CheckConsent, GainAccessEmergency, GainAccessWithCode, GainAccessWithOutCode, GetChangeHistoryView, GetDocumentList, GetDocumentListActive, GetEpisodeDetails, GetLocalUploadedDocument, GetPatientDisclosureDetails, GetPatientParticipationStatus, GetValidatedIhi, GetView, IsPcehrAdvertised, ListPatientEpisodesInHospital, ListUploadedDocuments, RecordConsent, RecordDisclosure, RegisterDependant, RegisterPatient, Remove, ReregisterDependant, ReregisterPatient, RetrieveDocument, UploadOrSupersedeDocument, GetDiagnosticImagingReportView, CreateDischargeSummaryLevel1A, GetPatientInHospitalDetails, GetHealthRecordOverview, GetPathologyReportView, ListPatientEpisodesInHospital, IsPcehrAdvertisedLocal, UploadOrSupersedeDischargeSummaryLevel1A, RefreshPatientParticipationStatus, UploadOrRemovePathology, UploadOrRemoveImaging, NotifyPasEvent	Implementers can now configure via the HIPS Core configuration setting "Mrn.Padding" to how many characters HIPS pads local identifiers (MRNs). The setting supports values between 0 and 40. A post-installation T-SQL script is also provided to migrate data stored for existing local identifiers (MRNs) to a desired state.
EHISC-133	6.0.0 - 6.1.1.7 & 6.2.0	6.1.1.8 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemoveImaging	Removed the column for observation date from the narrative of diagnostic imaging reports generated by HIPS, because the observation date is always the same as the image date, being mapped from the same field in the source HL7 message, and so was redundant information.

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-134	6.0.0 - 6.1.1.7 & 6.2.0	6.1.1.8 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovelmaging	Removed the column for result name from the narrative of diagnostic imaging reports generated by HIPS, in cases where the result name is the same as the imaging examination procedure name, and so is redundant information.
EHISC-135	6.0.0 - 6.1.1.7 & 6.2.0	6.1.1.8 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovelmaging	Removed the column for anatomical region from the narrative of diagnostic imaging reports generated by HIPS, because there is no mapping from the source HL7 message for this data item.
EHISC-136	4.0.0 - 6.2.2	7.0.0	Semantic	Changed	IPCEHRService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrSupersedeDocument, UploadOrSupersedeDischargeSummary Level1A, UploadOrRemovePathology, UploadOrRemovelmaging	<p>In previous product versions, when HIPS receives a high load of uploads and other requests to be processed HIPS may encounter database locking errors. When these errors were encountered before a document upload request was placed onto the HIPS queue, the error was not handled within HIPS and consequently the uploads fail and it is up to the ESB or source system to handle these errors and attempt to retry the upload.</p> <p>HIPS has been modified to:</p> <ul style="list-style-type: none"> <li>• Support the automatic retry of document uploads when database locking errors are encountered within HIPS before the document is added to the queue for processing.</li> <li>• Support the following configuration for retries on database lock error: <ul style="list-style-type: none"> <li>○ Number of retries: The number of retries attempts of the operation when a database lock error is encountered before the upload fails. Via the new “DBLockMaximumRetry” configuration setting.</li> <li>○ Retry delay: The delay in milliseconds between the retry attempt. Via the new “DBLockRetryDelay” configuration setting.</li> </ul> </li> <li>• Support the logging of the retry for an upload operation for system diagnostic purposes.</li> <li>• Add configuration to allow continued support for the existing HIPS function added in v6.1.2 that rejects Pathology and/or Diagnostic Imaging HL7 uploads when an existing HL7 operation for the same patient is in a Pending state. Via the new “PathologyImaging.CheckForPendingMessages” configuration setting.</li> </ul>

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-138	4.0.0 - 6.2.2	7.0.0	Syntactic	New	IPatientServiceV4	SearchPatients	<p>HIPS Core has been modified to provide a new “patient search” service operation that supports the requirements of the new HIPS UI Advanced Search screen. In previous product versions, all existing HIPS UI screens provided patient lists with client-side filtering of results. While this is sufficient when there are a limited number of results, in high-throughput scenarios (such as pathology and radiology providers) with a large number of results, these screens are expected to perform poorly.</p> <p>HIPS UI has been modified to provide an Advanced Search function that can be accessed from the main navigation (dependent on user authorisation). The Advanced Search function supports searching for patients and episodes using a range of criteria. Search results are displayed for any matching patients and episodes, with individual search results providing a set of actions applicable to that result (dependent on user authorisation). Each action navigates to the applicable existing HIPS UI screen for the selected patient and episode.</p>

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-140	4.0.0 - 6.2.2	7.0.0	Semantic	Changed	IAssistedRegistrationService, ICdaService, IConsentService, IIHIService, IPatientService, IPatientServiceV2, IPatientServiceV3, IPCEHRService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2, IDatabaseLoaderService	CheckConsent, GainAccessEmergency, GainAccessWithCode, GainAccessWithOutCode, GetChangeHistoryView, GetDocumentList, GetDocumentListActive, GetEpisodeDetails, GetLocalUploadedDocument, GetPatientDisclosureDetails, GetPatientParticipationStatus, GetValidatedIhi, GetView, IsPcehrAdvertised, ListPatientEpisodesInHospital, ListUploadedDocuments, RecordConsent, RecordDisclosure, RegisterDependant, RegisterPatient, Remove, ReregisterDependant, ReregisterPatient, RetrieveDocument, UploadOrSupersedeDocument, GetDiagnosticImagingReportView, CreateDischargeSummaryLevel1A, GetPatientInHospitalDetails, GetHealthRecordOverview, GetPathologyReportView, ListPatientEpisodesInHospital, IsPcehrAdvertisedLocal, UploadOrSupersedeDischargeSummaryLevel1A, RefreshPatientParticipationStatus, UploadOrRemovePathology, UploadOrRemoveImaging, NotifyPasEvent	<p>The following improvements have been made:</p> <ul style="list-style-type: none"> <li>• Introduced the HIPS 7.0 - Topology and Configuration Guide document as part of the HIPS release package documentation</li> <li>• Reduced excessive interactions with HI Service to obtain and validate IHI: <ul style="list-style-type: none"> <li>○ In previous versions of HIPS, where configured to obtain IHIs itself, HIPS performed an IHI lookup to obtain and validate an IHI from the HI Service for each ADT message received and prior to each interaction with the My Health Record system. HIPS used a sequential set of searches executed against the HI Service using various combinations of patient demographics, ordered in possible likelihood of available demographic data obtaining a valid result. This approach was potentially wasteful, because regardless of whether it was the first or tenth set of search criteria that succeeded, each time HIPS performed an IHI lookup it started from the first search criteria again.</li> <li>○ HIPS has been modified such that it now stores the most recent previously successful search criteria for some configurable period, such that this search criteria is the first used when a subsequent IHI lookup is requested within the configured period; and that in the case that all available criteria were unable to obtain an IHI this is also stored to prevent a repeated lookup where the criteria have not changed in the configurable period. This is configured via the new configuration setting "IhiSearchCriteriaReuseIntervalMinutes".</li> </ul> </li> <li>• Reduced excessive interactions with My Health Record system to determine if My Health Record exists: <ul style="list-style-type: none"> <li>○ In previous versions of HIPS, HIPS executed a doesPcehrExist operation against the My Health Record system in the following circumstances: <ul style="list-style-type: none"> <li>a For a new episode or a new HL7 pathology or diagnostic imaging report</li> <li>b After it has obtained a valid IHI from the HI Service</li> <li>c When the following HIPS services are explicitly invoked: IsPcehrAdvertised, RefreshPatientParticipationStatus</li> </ul> </li> <li>○ HIPS has been modified such that in the case of (a) and (b) it stores the result of a successful doesPCEHRExist invocation for some configurable period, such that when a subsequent request is made within the configured period the locally stored result is used in preference to another interaction with the My Health Record system. This is configured via the new configuration setting "PcehrExistsReuseIntervalMinutes".</li> </ul> </li> </ul>

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-141	4.0.0 - 6.2.2	7.0.0	Syntactic	New	IPatientServiceV4, IPumaInterfaceServiceV2	ListAdmittedPatients, IHISearchByNumberAndPCEHRCheck, GetEpisodelhiCheckList, UpdateEpisodelhiCheckList, PatientsWithOverridesReport	HIPS has been extended with the following previously custom functionality: <ul style="list-style-type: none"> <li>• IHI Reconciliation report</li> <li>• Override Report</li> <li>• Disclose hidden record for the root health organisation</li> </ul> For further information consult the HIPS 7.0 - Module Guide (Core) and HIPS 7.0 - Module Guide (UI) documents.
EHISC-145	4.0.0 - 6.2.2	7.0.0	Syntactic	New	IPatientServiceV4	RegisterPatient, CreateOrUpdateEpisode, GetPatientInHospitalDetails, ListPatientsInHospital, GetPatientIhiDetails	New HIPS Core services to support HIPS UI enhancements. HIPS UI can view the My Health Record across all facilities, including patients that have not yet been admitted into the HIPS database as an inpatient via an ADT feed. Authorised users are now able to register and update details for a patient manually, which can allow a user to subsequently search for a patient and view their My Health Record details. For further information refer to the HIPS 7.0 - Module Guide (UI) document.



Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-150	4.0.0 - 6.2.2	7.0.0	Semantic	Changed	IAssistedRegistrationService, ICdaService, IConsentService, IIHIService, IPatientService, IPatientServiceV2, IPatientServiceV3, IPCEHRService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2, IDatabaseLoaderService	CheckConsent, GainAccessEmergency, GainAccessWithCode, GainAccessWithOutCode, GetChangeHistoryView, GetDocumentList, GetDocumentListActive, GetEpisodeDetails, GetLocalUploadedDocument, GetPatientDisclosureDetails, GetPatientParticipationStatus, GetValidatedIhi, GetView, IsPcehrAdvertised, ListPatientEpisodesInHospital, ListUploadedDocuments, RecordConsent, RecordDisclosure, RegisterDependant, RegisterPatient, Remove, ReregisterDependant, ReregisterPatient, RetrieveDocument, UploadOrSupersedeDocument, GetDiagnosticImagingReportView, CreateDischargeSummaryLevel1A, GetPatientInHospitalDetails, GetHealthRecordOverview, GetPathologyReportView, ListPatientEpisodesInHospital, IsPcehrAdvertisedLocal, UploadOrSupersedeDischargeSummaryLevel1A, RefreshPatientParticipationStatus, UploadOrRemovePathology, UploadOrRemoveImaging, NotifyPasEvent	<p>In previous product versions, HIPS raised alerts when a duplicate patient or duplicate IHI had been detected. A duplicate patient alert (IHI Status ID 101) occurs when HIPS receives two patients (Patient A and Patient B) admitted to the same health facility with the identical demographics and found to have the same IHI. A duplicate IHI alert (IHI Status ID 100) occurs when it receives two patients (Patient A and Patient B) admitted to the same health facility with slight differences in the demographics but identical IHIs are obtained from the HI service.</p> <p>Once an IHI alert has been raised, the My Health Record could not be accessed, and clinical documents could not be uploaded against the patients' My Health Record until the IHI alert was resolved. The IHI alert status can be resolved after analysing the patients and if found to be the same patient, merging the patient details together to create one patient record for the health facility.</p> <p>For certain implementations of HIPS valid duplication of patients is required and in these cases this logic was blocking the reporting and patient care. Other organisations that do process the merge and resolve the IHI alerts were also blocked until this resolution took place.</p> <p>HIPS has been enhanced to allow all HIPS operations to the My Health Record against patient records when either a duplicate IHI alert or duplicate patient alert exist. The IHI Date Last Validated for duplicate records will be updated to require validation to ensure only the current record is used for the My Health Record access, until other records' IHI is revalidated.</p> <p>The IHI alert status messages have been updated to state the local identifier of all duplicate patients so the system administrators can easily identify which patients have either a duplicate IHI or are duplicate patients.</p> <p>This new functionality has been implemented as a new configuration setting "Ihi.AllowMHRAccessForDuplicates". For backwards compatibility, the default behaviour is to not allow access to the patient's My Health Record until the duplicate IHI or duplicate patient alert has been resolved.</p>

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-153	4.0.0 - 6.2.2	7.0.0	Semantic	Changed	IPCEHRService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	Remove, UploadOrSupersedeDocument, UploadOrSupersedeDischargeSummaryLevel1A, UploadOrRemovePathology, UploadOrRemoveImaging	A new table named "PcehrErrorCode" has been introduced to the HIPS Core database. This table contains all codes that may be returned from the My Health Record system, and for each identifies how HIPS interprets the error code. For further information consult the appendices of the HIPS 7.0 - Initial and Clean Installation Guide (Core) document.
EHISC-171	4.0.0	6.2.1	Semantic	Changed	IPCEHRService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrSupersedeDocument, UploadOrSupersedeDischargeSummaryLevel1A, UploadOrRemovePathology, UploadOrRemoveImaging	HIPS can successfully supersede a document after the archiving script has removed the CDA package of the previous version from the database.
EHISC-172	6.2.0	6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS will perform IHI validation for pathology and diagnostic imaging report upload operations after the ORU message is consumed from the HIPS queue, as in HIPS v6.1. This corrects an unintentional behaviour change in HIPS v6.2.
EHISC-173	6.0.0 - 6.1.1.8 & 6.2.0	6.1.1.9 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Resolved a database issue when attempting to update a local Health Provider Individual record, which prevented the upload of pathology and diagnostic imaging reports for a provider when the HPI-I of the provider required validation.
EHISC-174	6.0.0 - 6.1.1.8 & 6.2.0	6.1.1.9 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Resolved an issue that occurs when the MessageDateTime in the HL7 is ahead of the DateCreated field in the HL7MessageLog table. The HL7MessageLog DateCreated field is now only compared when the UserHL7MessageDateTime parameter is set to false.
EHISC-175	6.0.0	6.2.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Pathology and diagnostic imaging report HL7 messages with embedded PDF files are no longer limited to less than 4 MB by an MSMQ limitation.
EHISC-176	6.0.0 - 6.1.1.8 & 6.2.0	6.1.1.9 & 6.2.1	Semantic	Changed	ICdaService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	CreateDischargeSummaryLevel1A, UploadOrSupersedeDischargeSummaryLevel1A, UploadOrRemovePathology, UploadOrRemoveImaging	Corrected the offset from UTC included in date/time fields in CDA documents generated by HIPS when daylight savings was in effect at the applicable date/time. Previous versions of HIPS would include the base offset for the server's time zone without accounting for daylight savings, so summer date/times would be off by one hour.
EHISC-177	6.0.0 - 6.1.1.8 & 6.2.0	6.1.1.9 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemoveImaging	Resolved a conformance defect in diagnostic imaging reports generated by HIPS where they included an original text element "Diagnostic imaging study" in atomic data but no corresponding text in the narrative. The resolution was to remove the original text element.

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-178	6.0.0 - 6.1.1.8 & 6.2.0	6.1.1.9 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Resolved a conformance defect in pathology and diagnostic imaging reports generated by HIPS where the Request Date/Time was set to the same value as the Report Date/Time. HIPS will map the HL7 message fields ORC-9 and OBR-27.4 as the Request Date/Time and check that they are consistent.
EHISC-179	6.0.0 - 6.2.0	6.2.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	For Pathology Report and Diagnostic Imaging Report documents, HIPS now populates the Requester Order ID using the requester's HPI-O, if available. If the requester's HPI-O is not supplied in OBR-16.14.2 then the Requester Order ID will be omitted from the document.
EHISC-181	6.0.0 - 6.2.0	6.2.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Requester role in pathology and diagnostic imaging reports is now set to the code for "Referring Provider" from HL7 table 0286 rather than the code for "General Medical Practitioner" from ANZSCO.
EHISC-184	6.0.0 - 6.1.1.9 & 6.2.0	6.1.1.10 & 6.2.1	Semantic	Changed	IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Relaxed the validation check that a pathology or diagnostic imaging report HL7 message must contain the HPI-I of the document author when HPI-I exemption is enabled.
EHISC-185	4.0.0 - 6.2.2	7.0.0	Syntactic & Semantic	Changed  Discontinued  New	IPCEHRService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2  IPCEHRService  IPcehrServiceV3	Remove, UploadOrSupersedeDocument, UploadOrSupersedeDischargeSummary Level1A, UploadOrRemovePathology, UploadOrRemoveImaging  GetIndividualOperationStatus, GetOperationStatus, GetQueuedOperationList  GetQueuedOperation, GetQueuedOperations, SearchQueuedOperations	With the My Health Record transitioning to an opt-out model and more widespread use of HIPS, the message throughput requirement for HIPS is expected to grow significantly. Since its first release, HIPS has utilised Microsoft Message Queuing (MSMQ) to realise its requirement for a queuing component. Following a review of HIPS queuing a decision was made by the Agency to move HIPS queuing into SQL Server, making MSMQ redundant. MSMQ has been replaced by extending the existing message handling provided by the HIPS database. Separate background processing services to process queued messages are now hosted in one or more Windows services deployed to each application server, connecting to the HIPS Core database to consume messages as they become available. The new queuing mechanism simplifies the HIPS application architecture and better supports scale-out and high availability topologies. For further information on HIPS components and topologies consult the HIPS 7.0 – Topology and Configuration Guide document. For further information on installing and configuring the new HIPS Core Queue Consumer component consult the HIPS 7.0 – Initial and Clean Installation Guide (Core) document. For information on upgrading a previous HIPS version to HIPS 7.0 and impacts arising from the MSMQ replacement consult the HIPS 7.0 – Upgrade Instructions document.

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-192	4.0.0	6.2.1	Semantic	Changed	IPCEHRService	UploadOrSupersedeDocument	My Health Record B2B Library has been upgraded to v1.1.0 which includes support for Pharmacist Curated Medicines List document uploads. The upload of these documents is untested.
EHISC-227	4.2.0 - 7.0.2	7.1.0	Semantic	Changed	IPcehrServiceV2	UploadOrSupersedeDischargeSummaryLevel1A	Previously UploadDischargeSummaryLevel1A validation faults did not show the detail require to resolve the validation issue. HIPS has been modified to include this important detail.
EHISC-228	4.0.0 - 7.0.2	7.1.0	Semantic	Changed	IPCEHRService	UploadOrSupersedeDocument	Previously an invalid CDA document ID sent to the UploadOrSupersedeDocument service would incorrectly return an error indicating the document type code was unknown to HIPS. HIPS will now return an appropriate error message in the response indicating the document ID is invalid.
EHISC-229	6.0.0 - 7.0.2	7.1.0	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Previously a HL7 ORU message submitted to HIPS without a given name would cause a database error. HIPS has been modified to immediately return a validation error in the response indicating that a given name and family name are required.
EHISC-230	6.0.0 - 7.0.2	7.1.0	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS Core has been modified to preserve the original precision indication (year, month, day, hour, minute, second or fractional seconds & time zone) of date/time value in a pathology or diagnostic imaging report HL7 message.
EHISC-329	4.0.0 - 7.0.2	7.1.0	Semantic	Changed	IPCEHRService	UploadOrSupersedeDocument, Remove	Previously HIPS would accept and attempt to process document supersede or remove operations where the document identifier consisted of both a root and extension and the root was a UUID. This document identifier form is not accepted by the My Health Record System. HIPS now rejects such requests.
EHISC-335	4.2.0 - 7.0.2	7.1.0	Semantic	Changed	ICdaService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	CreateDischargeSummaryLevel1A, UploadOrSupersedeDischargeSummaryLevel1A, UploadOrRemovePathology, UploadOrRemoveImaging	Previously HIPS would return an unrelated error when creating a CDA document if contact information for the related facility was unavailable. This has been corrected as follows: <ul style="list-style-type: none"> <li>• A Diagnostic Imaging report can now be created if contact information is unavailable.</li> <li>• An attempt to create a Pathology report or Discharge Summary when required contact information is unavailable will result in an appropriately descriptive error message being returned.</li> </ul>

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-368	6.0.0 - 7.0.2	7.1.0	Semantic	Changed	IPCEHRService, IPathologyImagingService, IPathologyImagingServiceV2	Remove, UploadOrRemovePathology, UploadOrRemoveImaging	<p>Previously in HIPS Core, the filler order number of a removed document is retained, and the same filler order number is not allowed to be uploaded again to a different patient record.</p> <p>HIPS Core has been modified to delete the filler order number when a document is removed with "Incorrect Identity" reason, which allows the document to be re-uploaded to the correct patient record.</p> <p>Additionally, the methods of providing the Report ID and Accession ID have been re-aligned for consistency between pathology and imaging.</p> <p>HIPS will now use the Report ID if specified in OBX-3.4 of Pathology messages, no matter whether there is one or multiple OBR segments.</p> <p>HIPS will now allow the Accession ID to be provided in the UploadOrRemoveImaging SOAP request and supports using OBX-3.4 for specifying the Accession ID for imaging, like the Report ID is for pathology.</p> <p>HIPS maps Report ID/Accession ID in the following hierarchy:</p> <ol style="list-style-type: none"> <li>1. SOAP Report ID/Accession ID</li> <li>2. OBX3.4 Observation ID Alternate ID from the OBX whose with the PDF</li> <li>3. OBR3.1 Filler Order Number, if the same in all OBRs, otherwise return a validation error</li> </ol>
EHISC-371	4.2.0 - 7.0.2	7.1.0	Semantic	Changed	IPCEHRService, IPcehrServiceV2	RefreshPatientParticipationStatus	<p>Previously for Refresh Participation status request HIPS would send the doesPCEHRExist request to the MyHR system using the HPI-O of the disclosure facility and not the HPI-O of requesting facility. This caused the result to be stored into hips.HealthProviderOrganisationPatient table with the HealthProviderOrganisationId for disclosure facility and not for requesting facility.</p> <p>HIPS will now perform IHI validation using the requesting facility not the disclosure facility and store the result against the requesting facility in the [hips].[HealthProviderOrganisationPatient] table.</p>
EHISC-372	6.0.0 - 7.0.2	7.1.0	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	<p>Previously HPI-I errors returned in an upload ACK message contained irrelevant and duplicate details.</p> <p>The error has been modified to be more relevant, and the HPI-I has been added to the log properties, of the HL7Reports log file.</p>
EHISC-377	4.1.0 - 7.0.2	7.1.0	Semantic	Changed	IDatabaseLoaderService	NotifyPasEvent	<p>Previously sites that had not configured HIPS to interact with the HI Service were unable to process merge messages for duplicate patients due to logic that always attempted IHI lookups against the HI Service.</p> <p>This behaviour has been corrected and HIPS will now respect the BypassHIService flag when merging patients.</p>

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-381	4.0.0 - 7.0.2	7.1.0	Semantic	Changed	IDatabaseLoaderService, ICdaService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	NotifyPasEvent, CreateDischargeSummaryLevel1A, UploadOrSupersedeDischargeSummaryLevel1A, UploadOrRemovePathology, UploadOrRemoveImaging	Previously HIPS Core ignored State/Province for non-Australian addresses. HIPS Core has been modified to store the State/Province for non-Australian patient addresses and populate this information when creating CDA documents.
EHISC-400	4.0.0 - 6.2.2	7.0.0	Semantic	Changed	IConsentService	GetRecentPatientParticipationStatus	When a clinical system requests a list of patients who have changed participation status since a certain date via method "GetRecentPatientParticipationStatus", HIPS v7.0 will include all patients for whom the existence of a My Health Record has been checked. Previous versions would only include patients who have been found to have a My Health Record. This change will increase the quantity of records that are returned by the method. If the quantity of records returned is too high, systems that call this method may need to call it more frequently with a smaller date range in order to reduce the quantity of records returned.

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-401	5.0.0 - 6.2.2	7.0.0	Syntactic & Semantic	Discontinued	IDirectoryConfigurationService, IDirectorySynchronisationService, ILogService, IMessageDeliveryService, IMessagePublishingService, IMessageReceiptService, IProviderIndividualDirectoryService, IProviderLocationDirectoryService, IProviderOrganisationDirectoryService, IReferenceDataService, IResponseDeliveryService, IResponseReceiptService, ISubscriptionService	AbortMessage, AbortResponse, ActivateDelegate, ActivatePayloadScheme, AddAreaOfInterest, CreateIntermediary, CreateLocalIdentifier, DeleteAreaOfInterest, DeleteIntermediary, DeleteLocalIdentifier, FindIndividuals, FindOrganisations, GetCdaMessage, GetMessage, GetValidatedHpii, GetValidatedHpio, ListDelegates, ListDocumentTypes, ListIntermediaries, ListMappedIndividuals, ListMappedLocations, ListMappedOrganisations, ListPayloadSchemes, List, ListSubscriptionDefinitions, MediateDelegate, PrioritiseDelegate, QueryMessages, RemoveMessage, RetrieveChanges, RetryMessage, RetryResponse, Search, SendMessage, Synchronise, UpdateAreaOfInterest, Update	HIPS components previously distributed as part of the "P2P" product have been removed from the HIPS binary and source code packages and all documentation. Key improvements are currently underway to the national infrastructure for provider directories, which are essential for the utilisation of the HIPS P2P functionality. The removal of P2P components from the HIPS product is temporary. They will be reinstated in a future HIPS release, once the necessary national infrastructure service for provider directories are in place.
EHISC-410	6.1.0 - 6.1.2, 6.2.0 - 6.2.2	6.1.3, 7.0.0	Syntactic	New	IDocumentService	ListUploadedGeneralDocuments, ListUploadedPathologyReports, ListUploadedDiagnosticImagingReports	HIPS Core provides a new web service DocumentService with operations to list uploaded general documents (all except pathology and imaging reports), list uploaded pathology reports, and list uploaded imaging reports. The new service operations return the metadata stored in the HIPS Core database in the existing tables ClinicalDocument, ClinicalDocumentVersion and the new tables PathologyReport and DiagnosticImagingReport that are populated with additional metadata from uploaded documents.
EHISC-415	6.1.0 - 6.1.2, 6.2.0 - 6.2.2	6.1.3, 7.0.0	Syntactic	New	IPatientService_V6_1_3	GetPatientByIhi	HIPS Core service added that provides the HIPS UI with the ability to search for a patient by IHI. Some clinical systems do not display to their users the internal patient identifier (MRN). In these cases, the user is unable to search for the desired patient. Providing a search by IHI enables many system users to achieve this task without knowing the internal patient identifier (MRN).

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-420	6.0.0 - 6.1.1.10 & 6.2.0	6.1.2 & 6.2.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	To avoid time outs and processing errors we have found that putting a limit on the number of entries accepted by HIPS onto the queue (MSMQ) is beneficial. The limit can be configured and was set to 1,000 during testing but could easily be lower without impacting performance. Once 1,000 entries are on MSMQ, when a pathology or imaging report HL7 message is sent to HIPS, HIPS will send a fault back to the Integration Engine (e.g. Mirth Connect) and the Integration Engine will then queue the messages until HIPS starts to consume messages again. This effectively uses the integration engine to queue any backlog rather than HIPS. That is what Mirth (or similar integration engines) are designed to do.
EHISC-421	6.0.0 - 6.1.1.10 & 6.2.0	6.1.2 & 6.2.1	Syntactic & Semantic	Discontinued  New	IPcehrServiceV2, IPcehrServiceV3  IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging  UploadOrRemovePathology, UploadOrRemoveImaging	Configuration to limit the rate at which HL7 pathology and diagnostic imaging reports are accepted. A wait time can be set in HIPS configuration and was set to 350ms, which applies in between HIPS accepting messages from the integration engine. This keeps the inbound message throughput to approximately 2 per second and avoids a continual heavy burst of messages after an outage which could overload HIPS. To ensure inbound messages are processed serially required moving the UploadOrRemoveImaging and UploadOrRemovePathology operations from PCEHRService to a new web service PathologyImagingService that is configured to allow one message to be processed at a time.
EHISC-423	6.0.0 - 6.1.1.10 & 6.2.0	6.1.2 & 6.2.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	In previous versions HIPS returned a negative acknowledgement (NACK) to the integration engine when a database timeout occurred during HL7 ORU message processing. This meant the integration engine needed to re-process the message. To avoid this being necessary HIPS now identifies this situation and retries the processing as it is highly likely that HIPS will be able to re-process the message successfully when database load has reduced.
EHISC-424	6.0.0 - 6.1.1.10 & 6.2.0	6.1.2 & 6.2.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	In previous versions HIPS returned a negative acknowledgement (NACK) to the integration engine when HIPS was unable to obtain or validate the IHI because the HI Service was unavailable, or when HIPS was unable to check whether the patient had a My Health Record because the Does PCEHR Exist service was unavailable, during HL7 ORU message processing. This meant the integration engine needed to re-process the message. To avoid this being necessary HIPS now identifies this situation and retries the processing as it is highly likely that HIPS will be able to re-process the message successfully when the respective service is available.



Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-425	6.0.0 - 6.1.1.10 & 6.2.0	6.1.2 & 6.2.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Concurrently processing messages for the same patient has been observed to cause database locking failures and deadlocks. Some Laboratory Information Systems output multiple panels as separate report messages within a short time, increasing the likelihood of encountering this issue. To reduce concurrent processing of messages for the same patient, upon receipt of an HL7 ORU message, HIPS will now check if another HL7 message for the same patient is pending in the queue or being processed. If so, the message will be rejected, and a fault (transport acknowledgement) will be sent to the integration engine. The improved Mirth channel will try to send that message again in 10 seconds but will continue processing messages on other threads which have messages to send to HIPS with a different patient ID.
EHISC-429	6.0.0 - 6.2.2	7.0.0	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Pathology and Diagnostic Imaging uploads no longer perform an extra DoesPcehrExist call when first loaded.
EHISC-458	4.0.0 - 7.0.2	7.1.0	Semantic	Changed	IPCEHRService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	Remove, UploadOrSupersedeDocument, UploadOrSupersedeDischargeSummary Level1A, UploadOrRemovePathology, UploadOrRemoveImaging	Previously HIPS Core had a static configuration for handling HI Service errors and defaulted any unknown errors to be retryable. A new table, [hips].[HiServiceErrorCode], has been added and HIPS logic modified, to enable the addition of new HI Service error codes as they are introduced and control of whether they should be retried or not without the need for code change.
EHISC-465	6.0.0 - 7.0.2	6.1.3.1-VIC & 7.1.0	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	Previously HIPS required the Filler Order Number to be unique per instance of HIPS. This was a potential issue for sites with multiple Applications and/or Facilities generating Filler Order Numbers that could conflict. HIPS has been modified to require the combination of Filler Order Number, Sending Application and Sending Facility to uniquely identify a pathology or diagnostic imaging report.

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-467	6.1.0 - 7.0.2	7.1.0	Semantic	Changed	IAssistedRegistrationService, IDatabaseLoaderService, ICdaService, IIHIService, IPathologyImagingService, IPathologyImagingServiceV2, IPCEHRService, IPcehrServiceV2	RegisterDependant, RegisterPatient, ReregisterDependant, ReregisterPatient, NotifyPasEvent, CreateDischargeSummaryLevel1A, GetValidatedIhi, UploadOrRemovePathology, UploadOrRemoveImaging, GainAccessEmergency, GainAccessWithCode, GainAccessWithOutCode, GetChangeHistoryView, GetDocumentList, GetDocumentListActive, GetView, IsPcehrAdvertised, Remove, RetrieveDocument, UploadOrSupersedeDocument, GetDiagnosticImagingReportView, GetHealthRecordOverview, GetPathologyReportView, UploadOrSupersedeDischargeSummaryLevel1A, RefreshPatientParticipationStatus	The HI B2B Client library that HIPS makes use of to interact with the HI Service contained a defect which did not handle SOAP namespace errors gracefully. A new vendor library was released and updated in HIPS to resolve this defect.
EHISC-477	6.0.0 - 7.0.2	7.1.0	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	A provided Medicare number in HL7 ORU PID segment will now be validated using the following set of rules: <ul style="list-style-type: none"> <li>• 10 or 11 digits</li> <li>• pass the check digit routine</li> <li>• the 1st digit in the range 2 to 6</li> <li>• the 10th digit (issue number) in the range 1 to 9</li> <li>• the 11th digit (IRN), if supplied, in the range 1 to 9</li> </ul>
EHISC-478	6.0.0 - 7.0.2	7.1.0	Syntactic	New  Discontinued	IPatientServiceV4  IPatientServiceV4	PinPatient, UnpinPatient, ListPinnedPatients  CreateOrUpdateEpisode	New HIPS Core services to make the display of patient lists in HIPS UI more responsive as the number of users increases, including an enhancement to the patient pinning data model, services and caching strategy.

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-488	4.0.0 - 7.0.2	7.1.0	Semantic	Changed	IDatabaseLoaderService, IPathologyImagingService, IPathologyImagingServiceV2	NotifyPasEvent, UploadOrRemovePathology, UploadOrRemoveImaging	HIPS will correctly detect Australian mobile numbers and fixed line phone numbers and format them appropriately, while not reformatting invalid phone numbers with spaces.
EHISC-489	4.0.0 - 7.0.2	7.1.0	Semantic	Changed	ICdaService, IDocumentService,  IPatientServiceV2, IPatientServiceV3, IPatientServiceV4,  IPcehrServiceV2,  IPcehrServiceV3, IPumaInterfaceServiceV2	CreateDischargeSummaryLevel1A, ListUploadedDiagnosticImagingReports, ListUploadedPathologyReports, ListUploadedGeneralDocuments, GetPatientInHospitalDetails, RegisterPatient ListPatientEpisodesInHospital, GetPatientIhiDetails, CreateOrUpdateEpisode, PinPatient, UnpinPatient, RegisterPatient GetDiagnosticImagingReportView, GetHealthRecordOverview, GetPathologyReportView, IsPcehrAdvertisedLocal, UploadOrSupersedeDischargeSummary Level1A, RefreshPatientParticipationStatus, GetQueuedOperations, SearchQueuedOperations, GetEpisodelhiCheckList, UpdateEpisodelhiCheckList, IHISearchByNumberAndPCEHRCheck	All remaining parts of HIPS Core that limited patient MRNs to 20 characters, including the validation of Patient Identifier DTOs, now accept MRNs with up to 40 characters.
EHISC-509	4.0.0 - 7.0.0	7.0.1	Syntactic	Changed	IHpIIService	HpIIBatchRetrieve	HIPS now returns the results returned by the HI Service for HPI-I Batch Retrieve operations on the HIPS HpIIService V1 interface.
EHISC-510	4.0.0 - 7.0.0	7.0.1	Syntactic	Changed	IHpIIServiceV2	HpIIBatchRetrieve	HIPS now returns service messages returned by the HI Service for HPI-I Batch Retrieve operations on the HIPS HpIIService V2 interface.
EHISC-519	7.1.0	7.1.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS will now check if OBX-3.4 is null or empty before it proceeds to validate Report ID vs OBX-3.4 or Accession ID vs OBX-3.4.

Ticket	Impacted	Changed In	Change Category	Change Type	Interfaces	Operations	Impact Description
EHISC-522	4.0.0 - 7.1.1	7.1.1	Semantic	Changed	IDatabaseLoaderService	NotifyPasEvent	HIPS now accepts ADT messages with PID-5 Patient Name that contains only a family name and first given name like  FAMILY^FIRST . All components of Patient Name are now optional, however at least a family name and one given name is required to search for an IHI.
EHISC-537	6.0.0 - 7.1.0	7.1.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS Core has been modified to log a failure reason in HL7MessageLog for HL7 ORU Pathology and Diagnostic Imaging uploads when an error occurs.
EHISC-538	4.0.0 - 7.1.1	7.1.1	Semantic	Changed	IPCEHRService, IPcehrServiceV2, IPathologyImagingService, IPathologyImagingServiceV2	UploadOrSupersedeDocument, UploadOrSupersedeDischargeSummary Level1A, UploadOrRemovePathology, UploadOrRemoveImaging	HIPS will now fail document upload queue operations with a validation error if a partial date or a date with fractional seconds is found in the creationTime, serviceStartTime and serviceStopTime metadata in upload requests, including but not limited to the specimen collection date for pathology reports, and the imaging date for diagnostic imaging reports.
EHISC-546	6.0.0 - 7.1.0	7.1.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	A missing Medicare/DVA in HL7 ORU caused messages to be marked as pending and get stuck in the queue. HIPS will now correctly mark the messages as failed on the queue.
EHISC-548	6.0.0 - 7.1.0	7.1.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	An invalid DOB in HL7 ORU caused messages to be marked as pending and get stuck in the queue. HIPS will now correctly mark the messages as failed on the queue.
EHISC-549	6.0.0 - 7.1.0	7.1.1	Semantic	Changed	IPathologyImagingService, IPathologyImagingServiceV2	UploadOrRemovePathology, UploadOrRemoveImaging	HIPS will now return a validation error if a partial date or a date with fractional seconds is provided in OBR-7 for HL7 ORU messages.
EHISC-579	7.0.0 - 7.1.0	7.1.1	Semantic	Changed	IPCEHRService	IsPcehrAdvertised	Previously the behaviour of the IsPcehrAdvertised service would use a locally cached result if it was last retrieved within the configured period. The service has been modified to always use the My Health Record system. The IsPcehrAdvertisedLocal service should be used to retrieve a cached version instead.