



HIPS

Interface Change Log

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1 Introduction

1.1 Purpose

The purpose of this document is to list changes to HIPS web service interfaces.

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 Extent of changes

2.1 Syntactic changes

Syntactic changes of HIPS may include but not be limited to:

- WSDL changes (i.e. schema definitions) for HIPS web services
- Discontinuation of HIPS web services
- Changes to columns in the HIPS database views in the “Admin” user schema
- Format or protocol changes to HIPS interfaces
- Implementing new CDA Document Templates from the My Health Record System

Syntactic changes frequently impact the backwards compatibility of HIPS. Connected systems may need to be recompiled or modified when upgrading to a HIPS version introducing syntactic changes.

Syntactic changes will be defined in the HIPS interface change documentation provided with the HIPS release.

2.2 Semantic changes

Semantic changes of HIPS may include but not be limited to:

- User interface changes
- Functional behaviour changes for HIPS web services without impacting their WSDLs
- Changes to internal HIPS logic
- Database changes that do not affect the backwards compatibility of database views in the “Admin” user schema.

Semantic changes are less likely to impact the backwards compatibility of HIPS when compared with syntactic changes. However, connected systems might still need to be modified when upgrading to a HIPS version that introduces semantic changes.

Semantic changes do not impact formally declared interfaces of HIPS web services in the form of WSDL changes. However, changes such as modified sets of response codes will need to be matched by corresponding processing changes to connected systems.

Semantic changes will be defined in the HIPS interface change documentation provided with the HIPS Release.

2.3 Deprecation of web service interfaces

To improve HIPS web services, the Agency will from time to time introduce interface changes. To minimise the impact of such changes to connecting systems and to provide a smooth migration path, the Agency will apply the following approach for the introduction of such changes for a HIPS web service:

Step	Release types	Change	Impact on connecting systems
1	major, minor	Introduce new version of web service	May adopt new version.
2	major	Declare previous versions of web service as deprecated.	Should adopt new version.
3	next major	Discontinue previous versions of web service	Must adopt new version.

The Agency may declare a web service interface as deprecated as part of a HIPS major release. The Agency may discontinue a deprecated web service interface as part of a subsequent HIPS major release or a release subsequent to that. This will not impact older releases.

Deprecation and discontinuation can apply to a version of a web service interface or a web service interface as a whole.

2.3.1 Migrating to alternative web service interfaces

In principle, the Agency will only deprecate a web service interface once equivalent functionality is available through an alternative web service interface. This could be either of the following:

- a newer version of the same web service interface
- a different web service interface.

HIPS implementers should utilise the time between the deprecation of a web service interface and its discontinuation to redirect their connecting systems to the alternative web service interface.

2.3.2 Information about deprecated web service interfaces

The Agency will inform sites about the deprecation of utilised web service interfaces through the following channels:

- HIPS Interface Change Log (this document)
- HIPS Log messages for each invocation of a deprecated web service interface
- HIPS Knowledge Portal technical bulletin

The HIPS Interface Change Log is published with each HIPS release. It provides information about alternative web service interfaces for each deprecated or discontinued web service interface.

The HIPS Log can be configured to suppress deprecation messages once migration plans to the alternative web service interfaces are underway.

3 Interface Changes

3.1 HIPS 9.0

3.1.1 New

The following web services have been added in this version of HIPS.

ID	Interfaces	Operations	Description
4208	IHpIIServiceV9_0_0	GetValidatedHpII	New service operation version to fetch all the local provider details from the HIPS database given one of the following identifiers: Local Provider Identifier, IAM Provider Identifier, PAS Identifier, CIS Identifier or HPI-I. If an HPI-I has been associated with the local provider, it will be validated against the HI Service, if required.

3.1.2 Disabled

ID	Interface.Operation	Description
45574	ConsentService. CheckConsent	As noted in the release notes, this deprecated service has now been disabled.
45574	ConsentService. GetPatientParticipationStatus	As noted in the release notes, this deprecated service has now been disabled.
45574	ConsentService. GetPatientParticipationStatusWithMedicareDVA	As noted in the release notes, this deprecated service has now been disabled.
45574	ConsentService. GetRecentPatientParticipationStatus	As noted in the release notes, this deprecated service has now been disabled.
45574	ConsentService. RecordConsent	As noted in the release notes, this deprecated service has now been disabled.

ID	Interface.Operation	Description
45574	ConsentService. RecordDisclosure	As noted in the release notes, this deprecated service has now been disabled.
45574	DatabaseLoaderService. NotifyPasEvent	As noted in the release notes, this deprecated service has now been disabled.
45574	DatabaseLoaderService. NotifyPathEvent	As noted in the release notes, this deprecated service has now been disabled.
45574	HiReferenceService. GetHiCountries	As noted in the release notes, this deprecated service has now been disabled.
45574	HiReferenceService. GetHiLevelTypes	As noted in the release notes, this deprecated service has now been disabled.
45574	HiReferenceService. GetHiPostalDeliveryTypes	As noted in the release notes, this deprecated service has now been disabled.
45574	HiReferenceService. GetHiSexes	As noted in the release notes, this deprecated service has now been disabled.
45574	HiReferenceService. GetHiStates	As noted in the release notes, this deprecated service has now been disabled.
45574	HiReferenceService. GetHiStreetSuffixTypes	As noted in the release notes, this deprecated service has now been disabled.
45574	HiReferenceService. GetHiStreetTypes	As noted in the release notes, this deprecated service has now been disabled.
45574	HiReferenceService. GetHiUnitTypes	As noted in the release notes, this deprecated service has now been disabled.
45574	HpiiService. HpiiBatchRetrieve	As noted in the release notes, this deprecated service has now been disabled.
45574	HpiiService. HpiiBatchSubmit	As noted in the release notes, this deprecated service has now been disabled.
45574	HpiiService. HpiiDemographicSearch	As noted in the release notes, this deprecated service has now been disabled.
45574	HpiiService. HpiiValidation	As noted in the release notes, this deprecated service has now been disabled.
45574	HpiiServiceV2. HpiiBatchRetrieve	As noted in the release notes, this deprecated service has now been disabled.

ID	Interface.Operation	Description
45574	HpiiServiceV2.HpiiBatchSubmit	As noted in the release notes, this deprecated service has now been disabled.
45574	HpiiServiceV2.HpiiDemographicSearch	As noted in the release notes, this deprecated service has now been disabled.
45574	HpiiServiceV2.HpiiIdentifierSearch	As noted in the release notes, this deprecated service has now been disabled.
45574	IHIService.GetValidatedIhi	As noted in the release notes, this deprecated service has now been disabled.
45574	IHIService.ValidateReceivingPatient	As noted in the release notes, this deprecated service has now been disabled.
45574	IHIService.ValidateSendingPatient	As noted in the release notes, this deprecated service has now been disabled.
45574	PathologyImagingService.UploadOrRemoveImaging	As noted in the release notes, this deprecated service has now been disabled.
45574	PathologyImagingService.UploadOrRemovePathology	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientService.GetEpisodeDetails	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientService.GetPatientDisclosureDetails	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientService.ListAdmittedPatients	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientService.ListPatientEpisodesInHospital	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientService.ListPatientsInHospital	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientServiceV2.ListPatientEpisodesInHospital	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientServiceV2.ListPatientsInHospital	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientServiceV2.RegisterPatient	As noted in the release notes, this deprecated service has now been disabled.

ID	Interface.Operation	Description
45574	PatientServiceV3. GetPatientInHospitalDetails	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientServiceV3. ListAdmittedPatients	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientServiceV3. ListPatientsInHospital	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientServiceV4. GetPatientInHospitalDetails	As noted in the release notes, this deprecated service has now been disabled.
45574	PatientServiceV5. GetPatientInHospitalDetails	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. GainAccessEmergency	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. GainAccessWithCode	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. GainAccessWithOutCode	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. GetChangeHistoryView	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. GetDocumentList	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. GetDocumentListFilterDates	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. GetDocumentListFilterStatusAndDates	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. GetDocumentListActive	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. GetDocumentListActiveFilterDates	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. GetDocumentListWithQuery	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. GetLocalUploadedDocument	As noted in the release notes, this deprecated service has now been disabled.

ID	Interface.Operation	Description
45574	PCEHRService. GetView	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. IsPcehrAdvertised	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. ListUploadedDocuments	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. RefreshPatientParticipationStatus	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. Remove	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. RetrieveDocument	As noted in the release notes, this deprecated service has now been disabled.
45574	PCEHRService. UploadOrSupersedeDocument	As noted in the release notes, this deprecated service has now been disabled.
45574	PumaInterfaceService. IHISearchByNumber	As noted in the release notes, this deprecated service has now been disabled.
45574	PumaInterfaceService. IHISearchByNumberAndPCEHRCheck	As noted in the release notes, this deprecated service has now been disabled.
45574	ReferenceDataService. ListReferenceDataItems	As noted in the release notes, this deprecated service has now been disabled.
45574	ReferenceDataServiceV7_3_0. ListHospitals	As noted in the release notes, this deprecated service has now been disabled.
45574	ReferenceService. GetHospitalDetails	As noted in the release notes, this deprecated service has now been disabled.
45574	ReferenceService. ListDocumentTypes	As noted in the release notes, this deprecated service has now been disabled.
45574	ReferenceService. ListHospitals	As noted in the release notes, this deprecated service has now been disabled.
45574	ReferenceService. ReloadReferenceData	As noted in the release notes, this deprecated service has now been disabled.

3.2 HIPS 8.3

3.2.1 New

The following web services have been added in this version of HIPS.

ID	Interfaces	Operations	Description
19317 14876 10292	ICdaServiceV8_3_0	CreateDischargeSummaryLevel1A	New service operation version to create Discharge Summary Level 1A documents with support for: <ul style="list-style-type: none">- specifying document subtype,- specifying an originating identifier so that multiple separate discharge summary documents can be created for the same episode, and- specifying the occupation of the legal authenticator, responsible health professional and document author.
19314	IDocumentServiceV8_3_0	ListUploadedGeneralDocuments	New service operation version to enable HIPS UI to retrieve more detailed queue status information of General Documents for a patient.
19314	IDocumentServiceV8_3_0	ListUploadedPathologyReports	New service operation version to enable HIPS UI to retrieve more detailed queue status information of Pathology Reports for a patient.
19314	IDocumentServiceV8_3_0	ListUploadedDiagnosticImagingReports	New service operation version to enable HIPS UI to retrieve more detailed queue status information of Diagnostic Imaging Reports for a patient.

ID	Interfaces	Operations	Description
15347	IPcehrServiceV8_3_0	GetIndividualDetailsView	New service operation to retrieve the Individual Details View from the My Health Record. This view enables HIPS UI to display Emergency Contact Details for a patient.
15821	IPcehrServiceV8_3_0	GetDocumentList	New service operation version for getting a list of documents from the My Health Record with support for handling the “too many documents” error when a patient has more than 1000 documents matching the search criteria. The error is handled by recursively dividing the date range in half and combining the results from each half.
19316	IPcehrServiceV8_3_0	UploadCdaDocument	New service operation version for uploading or superseding CDA documents with support for specifying document subtype.
19317 14876 10292	IPcehrServiceV8_3_0	UploadOrSupersedeDischargeSummaryLevel1A	<p>New service operation version for uploading Discharge Summary Level 1A documents with support for:</p> <ul style="list-style-type: none"> - specifying document subtype, - specifying an originating identifier so that multiple separate discharge summary documents can be created and uploaded for the same episode, and - specifying the occupation of the legal authenticator, responsible health professional and document author.

ID	Interfaces	Operations	Description
12430	IReferenceDataServiceV8_3_0	ListHospitals	New service operation version to retrieve a list of healthcare facilities, with one additional field HealthProviderOrganisationId that is used for the ScopeValue of Organisation scoped settings such as the new settings for the certificates of each organisation.
19744	IReferenceDataServiceV8_3_0	ListDocumentTypes	New service operation version to retrieve a list of document types and subtypes from HIPS's local copy of the My Health Record document type register.

3.3 HIPS 8.2

3.3.1 Disabled

The following web services have been disabled in this HIPS release and should no longer be used.

ID	Interface.Operation	Description
15464	IAssistedRegistrationServiceV8_0_0. CreateMyHealthRecord	As noted in the release notes, this service has been disabled.
15464	IAssistedRegistrationService. RegisterPatient	As noted in the release notes, this service has been disabled.
15464	IAssistedRegistrationService. ReregisterPatient	As noted in the release notes, this service has been disabled.
15464	IAssistedRegistrationService. RegisterDependant	As noted in the release notes, this service has been disabled.
15464	IAssistedRegistrationService. ReregisterDependant	As noted in the release notes, this service has been disabled.

3.4 HIPS 8.0

3.4.1 New

The following web services have been added in this version of HIPS.

ID	Interfaces	Operations	Description
12518	IHpIIServiceV8_0_0	HpiiBatchRetrieve HpiiBatchSubmit HpiiDemographicSearch HpiiIdentifierSearch	New service version to accept new parameter for local provider code and store in HpiiLookupAudit to meet conformance requirement 008028 in NEHTA-1732:2014 <i>Use of Healthcare Identifiers in Health Software Systems Conformance Requirements v3.1</i> .
12518	IAssistedRegistrationServiceV8_0_0	CreateMyHealthRecord	Replacement for deprecated operations in the IAssistedRegistrationService interface (RegisterPatient, RegisterDependant, ReregisterPatient and ReregisterDependant) with improved validation and error handling.
12518	IConsentServiceV8_0_0	RecordConsent CheckConsent GetPatientParticipationStatus GetRecentPatientParticipationStatus RecordDisclosure	Replacements for deprecated IConsentService operations with improved validation and error handling. The new version of the operation GetPatientParticipationStatus also replaces the RefreshPatientParticipationStatus operation and the IsPcehrAdvertised operation of the IPCEHRService.

ID	Interfaces	Operations	Description
12518	IDatabaseLoaderServiceV8_0_0	NotifyPasEvent	Replacement for deprecated IDatabaseLoaderService operation with improved validation and consistency with other services. Errors are still returned as HL7 v2 acknowledgement messages rather than SOAP faults.
12518	IIHIServiceV8_0_0	GetValidatedIhi	Replacements for deprecated IIHIService operation with improved validation and error handling.
12518	IPatientServiceV8_0_0	GetEpisodeDetails GetPatientDisclosureDetails GetPatientInHospitalDetails	Replacements for deprecated IPatientService operations with improved validation and error handling.
12518	IPCEHRServiceV8_0_0	RemoveCdaDocument GetChangeHistoryView GainAccess RetrieveDocument GetLocalUploadedDocumentList GetLocalUploadedDocument	Replacements for deprecated IPCEHRService operations with improved validation and error handling.
12518	IReferenceDataServiceV8_0_0	ListReferenceDataItems ListHospitals	ListReferenceDataItems V8 adds a list of usage flags to the response, which is required for HIPS UI to know which reference data items to show in each function. ListHospitals V8 adds the HIPS internal facility identifier HospitalId to the response, which is required for HIPS UI to resolve configuration items in facility scope.

3.4.2 Changed

The following web services have been changed in this version of HIPS.

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
12518	6.0.0 - 7.3.0	Semantic	IHpIIServiceV2	AddEditLocalProvider	Modified to store local provider code in HpIILookupAudit to meet conformance requirement 008028 in NEHTA-1732:2014 <i>Use of Healthcare Identifiers in Health Software Systems Conformance Requirements v3.1</i> .

11329	4.0.0 - 7.3.0	Syntactic	PCEHRService HpIIService IHIService AssistedRegistrationService PumaInterfaceService	GainAccessEmergency GainAccessWithCode GainAccessWithOutCode GetChangeHistoryView GetDocumentList GetDocumentListFilterDates GetDocumentListFilterStatusAndDates GetDocumentListWithQuery GetDocumentListActive GetDocumentListActiveFilterDates GetView IsPcehrAdvertised RefreshPatientParticipationStatus Remove RetrieveDocument UploadOrSupersedeDocument HpIIBatchRetrieve HpIIBatchSubmit HpIIDemographicSearch HpIIValidation GetValidatedIhi RegisterDependant ReregisterDependant	The response of V1 services contains a HipsResponse Status field that can now contain a new enumeration member InvalidCertificate if the NASH certificate is invalid, revoked or expired.
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ID	Impacted Versions	Change Category	Interfaces	Operations	Description
				RegisterPatient ReregisterPatient IHISearchByNumber IHISearchByNumberAndPCEHRChek	
11329	4.1.0 - 7.3.0	Syntactic	CDAService PCEHRServicV2 PCEHRServicV7_3_0 PathologyImagingService PathologyImagingServiceV2 HpilServiceV2 PumaInterfaceServiceV2	CreateDischargeSummaryLevel1A RefreshPatientParticipationStatus UploadOrSupersedeDischargeSummaryLevel1A GetPathologyReportView GetDiagnosticImagingReportView GetHealthRecordOverview UploadCDADocument UploadOrRemovePathology UploadOrRemoveImaging HpilBatchRetrieve HpilBatchSubmit HpilDemographicSearch HpilIdentifierSearch AddEditLocalProvider IHISearchByNumberAndPCEHRChek	The response of V2 services may return a SOAP fault if the certificate is invalid, revoked or expired.

3.4.3 Disabled

The following web services have been disabled in this HIPS release and should no longer be used.

ID	Interface.Operation	Description
13033	IHIServiceV2. CreateVerifiedIhiForNewborn	This operation has been disabled as authorisation to invoke the HI Service operation to Create Verified Newborn IHI has been withdrawn and the use case "UC.011 – Request verified IHI for newborn" is not supported in the current HIPS version.
10211	IHIService. ValidateReceivingPatient	The capability provided by this service operation is no longer supported because it is specific to the P2P use case "UC.325 – Receive patient health information electronically" and the P2P module is not supported in the current HIPS version.
10211	IHIService. ValidateSendingPatient	The capability provided by this service operation is no longer supported because it is specific to the P2P use case "UC.330 – Send patient health information electronically" and the P2P module is not supported in the current HIPS version.

3.4.4 Deprecated

The web services below have been marked as deprecated. They will be discontinued no sooner than with the next major HIPS release.

These services can continue to be used, however HIPS implementers should utilise the time until their discontinuation to redirect their connecting systems to the designated replacement web service interface.

Refer to the table below for detail on the changes made in the replacement web services.

ID	Deprecated (Interface.Operation)	Replacement (Interface.Operation)	Differences between deprecated and replacement
12518	IHpIIService.HpIIBatchRetrieve	IHpIIServiceV8_0_0.HpIIBatchRetrieve	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Uses facility code rather than HPI-O to identify the organisation. Accepts new parameter LocalProviderCodes for local provider identifiers and stores them in HpIILookupAudit to meet conformance requirement 008028 in NEHTA-1732:2014 <i>Use of Healthcare Identifiers in Health Software Systems Conformance Requirements v3.1</i> .
12518	IHpIIService.HpIIBatchSubmit	IHpIIServiceV8_0_0.HpIIBatchSubmit	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Uses facility code rather than HPI-O to identify the organisation. Accepts new parameter LocalProviderCodes for local provider identifiers and stores them in HpIILookupAudit to meet conformance requirement 008028 in NEHTA-1732:2014 <i>Use of Healthcare Identifiers in Health Software Systems Conformance Requirements v3.1</i> .

ID	Deprecated (Interface.Operation)	Replacement (Interface.Operation)	Differences between deprecated and replacement
12518	IHpIIService.HpIIDemographicSearch	IHpIIServiceV8_0_0.HpIIDemographicSearch	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Uses facility code rather than HPI-O to identify the organisation. Accepts new parameter LocalProviderCodes for local provider identifiers and stores them in HpIILookupAudit to meet conformance requirement 008028 in NEHTA-1732:2014 <i>Use of Healthcare Identifiers in Health Software Systems Conformance Requirements v3.1</i> .
12518	IHpIIService.HpIIValidation	IHpIIServiceV8_0_0.HpIIIdentifierSearch	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Uses facility code rather than HPI-O to identify the organisation. Accepts new parameter LocalProviderCodes for local provider identifiers and stores them in HpIILookupAudit to meet conformance requirement 008028 in NEHTA-1732:2014 <i>Use of Healthcare Identifiers in Health Software Systems Conformance Requirements v3.1</i> .
12518	IHpIIServiceV2.HpIIBatchRetrieve	IHpIIServiceV8_0_0.HpIIBatchRetrieve	Accepts new parameter LocalProviderCodes for local provider identifiers and stores them in HpIILookupAudit to meet conformance requirement 008028 in NEHTA-1732:2014 <i>Use of Healthcare Identifiers in Health Software Systems Conformance Requirements v3.1</i> .
12518	IHpIIServiceV2.HpIIBatchSubmit	IHpIIServiceV8_0_0.HpIIBatchSubmit	Accepts new parameter LocalProviderCodes for local provider identifiers and stores them in HpIILookupAudit to meet conformance requirement 008028 in NEHTA-1732:2014 <i>Use of Healthcare Identifiers in Health Software Systems Conformance Requirements v3.1</i> .

ID	Deprecated (Interface.Operation)	Replacement (Interface.Operation)	Differences between deprecated and replacement
12518	IHpIIServiceV2. HpIIDemographicSearch	IHpIIServiceV8_0_0. HpIIDemographicSearch	Accepts new parameter LocalProviderCodes for local provider identifiers and stores them in HpIILookupAudit to meet conformance requirement 008028 in NEHTA-1732:2014 <i>Use of Healthcare Identifiers in Health Software Systems Conformance Requirements v3.1</i> .
12518	IHpIIServiceV2. HpIIDentifierSearch	IHpIIServiceV8_0_0. HpIIDentifierSearch	Accepts new parameter LocalProviderCodes for local provider identifiers and stores them in HpIILookupAudit to meet conformance requirement 008028 in NEHTA-1732:2014 <i>Use of Healthcare Identifiers in Health Software Systems Conformance Requirements v3.1</i> .
12518	IAssistedRegistrationService. ListPatientsWithoutPcehr	IPatientServiceV4. ListPatientsInHospital	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Richer criteria for patient matching. Returns additional patient information.
12518	IAssistedRegistrationService. RegisterPatient	IAssistedRegistrationServiceV8_0_0. CreateMyHealthRecord	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Consolidates four operations into one.
12518	IAssistedRegistrationService. ReregisterPatient	IAssistedRegistrationServiceV8_0_0. CreateMyHealthRecord	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Consolidates four operations into one.
12518	IAssistedRegistrationService. RegisterDependant	IAssistedRegistrationServiceV8_0_0. CreateMyHealthRecord	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Consolidates four operations into one.
12518	IAssistedRegistrationService. ReregisterDependant	IAssistedRegistrationServiceV8_0_0. CreateMyHealthRecord	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Consolidates four operations into one.

ID	Deprecated (Interface.Operation)	Replacement (Interface.Operation)	Differences between deprecated and replacement
12518	IConsentService. RecordConsent	IConsentServiceV8_0_0. RecordConsent	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.
12518	IConsentService. CheckConsent	IConsentServiceV8_0_0. CheckConsent	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.
12518	IConsentService. GetPatientParticipationStatus	IConsentServiceV8_0_0. GetPatientParticipationStatus	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Consolidates multiple operations into one.
12518	IConsentService. GetPatientParticipationStatusWithMedicareDVA	IConsentServiceV8_0_0. GetPatientParticipationStatus	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Consolidates multiple operations into one.
12518	IConsentService. GetRecentPatientParticipationStatus	IConsentServiceV8_0_0. GetRecentPatientParticipationStatus	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.
12518	IConsentService. RecordDisclosure	IConsentServiceV8_0_0. RecordDisclosure	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.
12518	IDatabaseLoaderService. NotifyPasEvent	IDatabaseLoaderServiceV8_0_0. NotifyPasEvent	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter.
12518	IIHIService. GetValidatedIhi	IIHIServiceV8_0_0. GetValidatedIhi	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.

ID	Deprecated (Interface.Operation)	Replacement (Interface.Operation)	Differences between deprecated and replacement
12518	IPathologyImagingService.UploadOrRemovePathology	IPathologyImagingServiceV2.UploadOrRemovePathology	Returns additional information about the CDA document that will be generated, including the assigned Document Set ID and the AdmissionDate of the assigned stub episode, which may be used in a call to RemoveCdaDocument in the event that the document later needs to be removed from the My Health Record.
12518	IPathologyImagingService.UploadOrRemoveImaging	IPathologyImagingServiceV2.UploadOrRemoveImaging	Returns additional information about the CDA document that will be generated, including the assigned Document Set ID and the AdmissionDate of the assigned stub episode, which may be used in a call to RemoveCdaDocument in the event that the document later needs to be removed from the My Health Record.
12518	IPatientService.ListPatientsInHospital	IPatientServiceV4.ListPatientsInHospital	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Richer criteria for patient matching. Returns additional patient information.
12518	IPatientService.ListPatientEpisodesInHospital	IPatientServiceV3.ListPatientEpisodesInHospital	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Richer criteria for patient matching. Returns additional episode information.
12518	IPatientService.GetEpisodeDetails	IPatientServiceV8_0_0.GetEpisodeDetails	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Returns additional episode information with consent withdrawal audit information.
12518	IPatientService.GetPatientDisclosureDetails	IPatientServiceV8_0_0.GetPatientDisclosureDetails	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Returns additional patient information.

ID	Deprecated (Interface.Operation)	Replacement (Interface.Operation)	Differences between deprecated and replacement
12518	IPatientService. ListAdmittedPatients	IPatientServiceV4. ListAdmittedPatients	<p>Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.</p> <p>Accepts new parameter DisclosureHospitalCode to specify which facility the disclosure of hidden My Health Record is recorded against – usually the patient’s registered facility, but at some HIPS sites disclosures are recorded against a root facility representing a site-wide disclosure.</p> <p>Returns additional fields EpisodeTypeCode and EpisodeTypeDescription, as well as 3 fields that are not populated: IsNewPatient, PreviousEpisode and PreviousSharedHealthSummaryUpload. To obtain the actual values for IsNewPatient, PreviousEpisode and PreviousSharedHealthSummaryUpload, invoke the operation GetPatientInHospitalDetails for one patient at a time.</p>
12518	IPatientServiceV2. ListPatientEpisode sInHospital	IPatientServiceV3. ListPatientEpisodesInHospital	<p>Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Returns additional episode information.</p>
12518	IPatientServiceV2. RegisterPatient	IPatientServiceV4. RegisterPatient	<p>Additional business logic and error handling to allow HIPS UI to comply with conformance requirements in NEHTA-1732:2014 <i>Use of Healthcare Identifiers in Health Software Systems Conformance Requirements v3.1</i>.</p>

ID	Deprecated (Interface.Operation)	Replacement (Interface.Operation)	Differences between deprecated and replacement
12518	IPatientServiceV2. ListPatientsInHospital	IPatientServiceV4. ListPatientsInHospital	<p>Richer criteria for patient matching: DaysAfterService, DaysBeforePreAdmit.</p> <p>Removed parameters: FlagNewPatients, FlagPreviousEpisode, FlagLastSharedHealthSummaryUpload. To obtain the details previously provided by these flags, invoke the operation GetPatientInHospitalDetails for one patient at a time.</p> <p>Returns additional patient information: EpisodeTypeCode, EpisodeTypeDescription.</p>
12518	IPatientServiceV3. ListPatientsInHospital	IPatientServiceV4. ListPatientsInHospital	<p>Richer criteria for patient matching. Returns additional patient information.</p>
12518	IPatientServiceV3. ListAdmittedPatients	IPatientServiceV4. ListAdmittedPatients	<p>Returns additional patient information: AdmissionReason, ConsentWithdrawn, PcehrDisclosed, SourceSystemEpisodeId, HasPinnedEpisode, OriginalIhiStatus.</p>
12518	IPatientServiceV3. GetPatientInHospitalDetails	IPatientServiceV8_0_0. GetPatientInHospitalDetails	<p>Returns additional patient information: AdmissionReason, ConsentWithdrawn, PcehrDisclosed, SourceSystemEpisodeId, HasPinnedEpisode, OriginalIhiStatus, Addresses, Contacts and DateOfDeath.</p>
12518	IPatientServiceV4. GetPatientInHospitalDetails	IPatientServiceV8_0_0. GetPatientInHospitalDetails	<p>Returns additional patient information: Addresses, Contacts and DateOfDeath.</p>
12518	IPatientServiceV5. GetPatientInHospitalDetails	IPatientServiceV8_0_0. GetPatientInHospitalDetails	<p>Provided for completeness within the IPatientServiceV8_0_0 interface.</p>
12518	IPCEHRService. UploadOrSupersedeDocument	IPCEHRServiceV7_3_0. UploadCdaDocument	<p>Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.</p>

ID	Deprecated (Interface.Operation)	Replacement (Interface.Operation)	Differences between deprecated and replacement
12518	IPCEHRService. Remove	IPCEHRServiceV8_0_0. RemoveCdaDocument	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.
12518	IPCEHRService. GetChangeHistoryView	IPCEHRServiceV8_0_0. GetChangeHistoryView	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.
12518	IPCEHRService. GetDocumentList	IPCEHRServiceV7_3_0. GetDocumentList	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IPCEHRService. GetDocumentListFilterDates	IPCEHRServiceV7_3_0. GetDocumentList	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IPCEHRService. GetDocumentListFilterStatusAndDates	IPCEHRServiceV7_3_0. GetDocumentList	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IPCEHRService. GetDocumentListActive	IPCEHRServiceV7_3_0. GetDocumentList	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IPCEHRService. GetDocumentListActiveFilterDates	IPCEHRServiceV7_3_0. GetDocumentList	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.

ID	Deprecated (Interface.Operation)	Replacement (Interface.Operation)	Differences between deprecated and replacement
12518	IPCEHRService. GetDocumentListWithQuery	IPCEHRServiceV7_3_0. GetDocumentList	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IPCEHRService. GainAccessWithoutCode	IPCEHRServiceV8_0_0. GainAccess	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IPCEHRService. GainAccessWithCode	IPCEHRServiceV8_0_0. GainAccess	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IPCEHRService. GainAccessEmergency	IPCEHRServiceV8_0_0. GainAccess	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IPCEHRService. RetrieveDocument	IPCEHRServiceV8_0_0. RetrieveDocument	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.
12518	IPCEHRService. ListUploadedDocuments	IPCEHRServiceV8_0_0. GetLocalUploadedDocumentList	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.
12518	IPCEHRService. GetLocalUploadedDocument	IPCEHRServiceV8_0_0. GetLocalUploadedDocument	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.

ID	Deprecated (Interface.Operation)	Replacement (Interface.Operation)	Differences between deprecated and replacement
12518	IPCEHRService.RefreshPatientParticipationStatus	IConsentServiceV8_0_0.GetPatientParticipationStatus	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IPumaInterfaceService.IHISearchByNumber	IPumaInterfaceServiceV2.IHISearchByNumberAndPCEHRCheck	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.
12518	IPumaInterfaceService.IHISearchByNumberAndPCEHRCheck	IPumaInterfaceServiceV2.IHISearchByNumberAndPCEHRCheck	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults.
12518	IHiReferenceService.GetHiCountries	IReferenceDataServiceV8_0_0.ListReferenceDataItems	Improved validation and error handling. Accepts subclass of UserBase rather than UserDetails parameter. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IHiReferenceService.GetHiLevelTypes	IReferenceDataServiceV8_0_0.ListReferenceDataItems	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IHiReferenceService.GetHiPostalDeliveryTypes	IReferenceDataServiceV8_0_0.ListReferenceDataItems	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IHiReferenceService.GetHiSexes	IReferenceDataServiceV8_0_0.ListReferenceDataItems	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.

ID	Deprecated (Interface.Operation)	Replacement (Interface.Operation)	Differences between deprecated and replacement
12518	IHiReferenceService. GetHiStates	IReferenceDataServiceV8_0_0. ListReferenceDataItems	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IHiReferenceService. GetHiStreetSuffixTypes	IReferenceDataServiceV8_0_0. ListReferenceDataItems	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IHiReferenceService. GetHiStreetTypes	IReferenceDataServiceV8_0_0. ListReferenceDataItems	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IHiReferenceService. GetHiUnitTypes	IReferenceDataServiceV8_0_0. ListReferenceDataItems	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults. Combines multiple web service operations into one operation.
12518	IHIPSReferenceService. GetHospitalDetails	IReferenceDataServiceV7_3_0. GetHospital	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults.
12518	IHIPSReferenceService. ListHospitals	IReferenceDataServiceV7_3_0. ListHospitals	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults.
12518	IHIPSReferenceService. ReloadReferenceData	IReferenceDataServiceV7_3_0. ReloadReferenceData	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults.
12518	IHIPSReferenceService. ListDocumentTypes	IReferenceDataServiceV7_3_0. ListDocumentTypes	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults.
12518	IReferenceDataServiceV7_3_0. ListHospitals	IReferenceDataServiceV8_0_0. ListHospitals	Improved validation and error handling. Accepts subclass of UserBase. Returns HIPS defined SOAP faults.

3.5 HIPS 7.3

3.5.1 New

ID	Interfaces	Operations	Description
EHISC-482	IIHIServiceV7_3_0	ResetIhi	New service version IIHIServiceV7_3_0 with operation ResetIhi.
ADO-10530	IReferenceDataServiceV7_3_0	GetHospital ListHospitals ReloadReferenceData ListDocumentTypes	New service version IReferenceDataServiceV7_3_0 with new operations as listed.
ADO-9578	IPcehrServiceV7_3_0	GetDocumentList UploadCdaDocument	New service version IPcehrServiceV7_3_0 with new operations as listed.

3.5.2 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-482	4.0.0-7.2.2	Semantic	All	All	Error messages returned from each service operation will have new origin: HIPS Core = HIPS HIPS P2P = HIPS.p2p HI Service = Healthcare Identifier Service MHR = My Health Record system
ADO-9207	4.0.0-7.2.2	Semantic	AckService	SendAck	HIPS previously set the Acknowledgement attribute to be not null. It has been changed so that it limits the Acknowledgement attribute to be at most 128KB.

3.6 HIPS 7.2

3.6.1 New

ID	Interfaces	Operations	Description
EHISC-498	ReferenceDataService	ListReferenceDataItems	New service ReferenceDataService with operation ListReferenceDataItems
EHISC-498	IHIServiceV2	CreateVerifiedIhiForNewborn	New service version IHIServiceV2 with operation CreateVerifiedIhiForNewborn
EHISC-498	PatientServiceV5	GetPatientInHospitalDetails	New service version PatientServiceV5 with operation GetPatientInHospitalDetails

3.6.2 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
ADO-9622	6.1.0 - 7.1.1	Semantic	PCEHRService	GetDocumentList	Always interpret the value from MHR as UTC time for creationTime, serviceStartTime and serviceStopTime.
				GetDocumentListActive	
				GetDocumentListActiveFilterDates	
				GetDocumentListFilterDates	
				GetDocumentListFilterStatusAndDates	
EHISC-1	4.0.0 - 7.1.1	Syntactic	AssistedRegistrationService	GetDocumentListWithQuery	
				RegisterDependant	
				ReregisterDependant	Optional field assertionOfParentalResponsibility added to request of AssistedRegistrationService operations RegisterDependant and ReregisterDependant.

EHISC- 4.0.0 - 582 7.1.1	Semantic IPCEHRService	UploadOrSupersedeDocument	<p>HIPS will now look for the episode for a CDA document based on the following priority:</p> <ol style="list-style-type: none">1) Look in ClinicalDocument by document set ID which will find the document if already uploaded.2) If not found there, look in MessageQueue by document set ID which will find the document if pending upload.3) If not found there, retrieve episodes where patient ID is the patient ID, episode is not cancelled and episode type is not a stub type, and filter to those whose admission date/time is within 1 minute of the given date/time. Apply the current logic to handle the results:<ol style="list-style-type: none">i. If no episode is found and patient ID is not validated IHI, return an error (InvalidEpisode).ii. If no episode is found and patient ID is validated IHI, create a validated IHI stub episode.iii. If one episode is found, select this episode.iv. If multiple episodes are found, create a multiple episode stub episode, where consent is withdrawn if any of those found were withdrawn.
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EHISC- 582	4.0.0 - 7.1.1	Semantic	IPcehrServiceV2	UploadOrSupersedeDischargeSummaryLevel1A	<p>HIPS will now look for the episode for a Level 1A Discharge Summary document based on the following priority:</p> <p>Retrieve records for all uploaded documents from ClinicalDocument joined to Episode, where the document type is Discharge Summary and the Episode Patient ID is the patient ID, and the Episode Admission Date/Time is within 1 minute of the given admission date/time.</p> <ol style="list-style-type: none"> 1) If there are no records returned, follow the logic for CDA document episode lookup, except that since set ID is not yet known, skip the lookups of ClinicalDocument and MessageQueue. 2) If there is one record returned, select the episode of that discharge summary. 3) If there are multiple records returned, return an InvalidEpisode error: "HIPS is unable to supersede the Level 1A discharge summary because there are multiple discharge summaries uploaded for this patient with the given admission date/time."
EHISC- 15	4.0.0 – 7.1.1	Syntactic	AssistedRegistrationService CdaService ConsentService DocumentService IHIService PathologyImagingService PatientService PCEHRService PumaInterfaceService	Multiple	<p>Enumeration value AddressChangeMismatch added to IhiStatus type in AssistedRegistrationService, CdaService, ConsentService, DocumentService, IHIService, PathologyImagingService, PatientService, PCEHRService and PumaInterfaceService.</p> <p>This enum value will only be returned if the site decides to enable IHI search by address.</p> <p>Optional fields addresses and ihiFoundBy added to IhiSearchCriteria type in request of PumaInterfaceService operations IHIsearchByNumber and IHIsearchByNumberAndPCEHRCheck.</p>

3.7 HIPS 7.1.1

3.7.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-519	7.1.0	Semantic	IPathologyImagingService	UploadOrRemovePathology	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.
			IPathologyImagingServiceV2	UploadOrRemoveImaging	
EHISC-522	4.0.0 - 7.1.1	Semantic	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	Semantic	IPathologyImagingService	UploadOrRemovePathology	HIPS Core has been modified to log a failure reason in HL7MessageLog for HL7 ORU Pathology and Diagnostic Imaging uploads when an error occurs.
			IPathologyImagingServiceV2	UploadOrRemoveImaging	
EHISC-538	4.0.0 - 7.1.1	Semantic	IPCEHRService	UploadOrSupersedeDocument	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.
			IPcehrServiceV2	UploadOrSupersedeDischargeSummaryLevel1A	
			IPathologyImagingService	UploadOrRemovePathology	
			IPathologyImagingServiceV2	UploadOrRemoveImaging	
EHISC-546	6.0.0 - 7.1.0	Semantic	IPathologyImagingService	UploadOrRemovePathology	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.
			IPathologyImagingServiceV2	UploadOrRemoveImaging	
EHISC-548	6.0.0 - 7.1.0	Semantic	IPathologyImagingService	UploadOrRemovePathology	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.
			IPathologyImagingServiceV2	UploadOrRemoveImaging	
EHISC-549	6.0.0 - 7.1.0	Semantic	IPathologyImagingService	UploadOrRemovePathology	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.
			IPathologyImagingServiceV2	UploadOrRemoveImaging	

EHISC-579	7.0.0 - 7.1.0	Semantic	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.
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3.8 HIPS 7.1

3.8.1 New

ID	Interfaces	Operations	Description
EHISC-478	IPatientServiceV4	PinPatient UnpinPatient ListPinnedPatients	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.

3.8.2 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-227	4.2.0 - 7.0.2	Semantic	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	Semantic	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	Semantic	IPathologyImagingService	UploadOrRemovePathology	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.
			IPathologyImagingServiceV2	UploadOrRemoveImaging	
EHISC- 230	6.0.0 - 7.0.2	Semantic	IPathologyImagingService	UploadOrRemovePathology	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.
			IPathologyImagingServiceV2	UploadOrRemoveImaging	
EHISC- 329	4.0.0 - 7.0.2	Semantic	IPCEHRService	UploadOrSupersedeDocument	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.
				Remove	
EHISC- 335	4.2.0 - 7.0.2	Semantic	ICdaService	CreateDischargeSummaryLevel1A	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"> • A Diagnostic Imaging report can now be created if contact information is unavailable. • 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.
			IPcehrServiceV2	UploadOrSupersedeDischargeSummaryLevel1A	
			IPathologyImagingService	UploadOrRemovePathology	
			IPathologyImagingServiceV2	UploadOrRemoveImaging	

EHISC- 368	6.0.0 - 7.0.2	Semantic	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. 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. 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. 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">1. SOAP Report ID/Accession ID2. OBX3.4 Observation ID Alternate ID from the OBX whose with the PDF3. OBR3.1 Filler Order Number, if the same in all OBRs, otherwise return a validation error
EHISC- 371	4.2.0 - 7.0.2	Semantic	IPCEHRService IPcehrServiceV2	RefreshPatientParticipationStatus	<p>Previously for Refresh Participation status request HIPS would send the doesPCEHRExist request to the My Health Record 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	Semantic	IPathologyImagingService IPathologyImagingServiceV2	UploadOrRemovePathology UploadOrRemoveImaging	Previously HPI-I errors returned in an upload ACK message contained irrelevant and duplicate details. 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.
EHISC-377	4.1.0 - 7.0.2	Semantic	IDatabaseLoaderService	NotifyPasEvent	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. This behaviour has been corrected and HIPS will now respect the BypassHIService flag when merging patients.
EHISC-381	4.0.0 - 7.0.2	Semantic	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-458	4.0.0 - 7.0.2	Semantic	IPCEHRService IPcehrServiceV2 IPathologyImagingService IPathologyImagingServiceV2	Remove UploadOrSupersedeDocument UploadOrSupersedeDischargeSummaryLevel1A 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	Semantic	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.

EHISC- 467	6.1.0 - 7.0.2	Semantic	IAssistedRegistrationService	RegisterDependant	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.
			IDatabaseLoaderService	RegisterPatient	
			ICdaService	ReregisterDependant	
			IIHIService	ReregisterPatient	
			IPathologyImagingService	NotifyPasEvent, CreateDischargeSummaryLevel1A	
			IPathologyImagingServiceV2	GetValidatedIhi	
			IPCEHRService	UploadOrRemovePathology	
			IPcehrServiceV2	UploadOrRemoveImaging	
				GainAccessEmergency	
				GainAccessWithCode	
				GainAccessWithOutCode	
				GetChangeHistoryView	
				GetDocumentList	
				GetDocumentListActive	
				GetView	
				IsPcehrAdvertised	
				Remove	
				RetrieveDocument	
				UploadOrSupersedeDocument	
				GetDiagnosticImagingReportView	
				GetHealthRecordOverview	

GetPathologyReportView					
UploadOrSupersedeDischargeSummaryLevel1A					
RefreshPatientParticipationStatus					
EHISC-477	6.0.0 - 7.0.2	Semantic	IPathologyImagingService	UploadOrRemovePathology	<p>A provided Medicare number in HL7 ORU PID segment will now be validated using the following set of rules:</p> <ul style="list-style-type: none"> • 10 or 11 digits • pass the check digit routine • the 1st digit in the range 2 to 6 • the 10th digit (issue number) in the range 1 to 9 • the 11th digit (IRN), if supplied, in the range 1 to 9
			IPathologyImagingServiceV2	UploadOrRemoveImaging	
EHISC-488	4.0.0 - 7.0.2	Semantic	IDatabaseLoaderService	NotifyPasEvent	<p>HIPS will correctly detect Australian mobile numbers and fixed line phone numbers and format them appropriately, while not reformatting invalid phone numbers with spaces.</p>
			IPathologyImagingService	UploadOrRemovePathology	
			IPathologyImagingServiceV2	UploadOrRemoveImaging	

EHISC- 489	4.0.0 - 7.0.2	Semantic	ICdaService	CreateDischargeSummaryLevel1A	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.
			IDocumentService	ListUploadedDiagnosticImagingReports	
			IPatientServiceV2	ListUploadedPathologyReports	
			IPatientServiceV3	ListUploadedGeneralDocuments	
			IPatientServiceV4	GetPatientInHospitalDetails	
			IPcehrServiceV2	RegisterPatient	
			IPcehrServiceV3	ListPatientEpisodesInHospital	
			IPumaInterfaceServiceV2	GetPatientIhiDetails	
				CreateOrUpdateEpisode	
				PinPatient	
				UnpinPatient	
				RegisterPatient	
				GetDiagnosticImagingReportView	
				GetHealthRecordOverview	
				GetPathologyReportView	
				IsPcehrAdvertisedLocal	
				UploadOrSupersedeDischargeSummaryLevel1A	
				RefreshPatientParticipationStatus	
				GetQueuedOperations	
				SearchQueuedOperations	
				GetEpisodeIhiCheckList	
				UpdateEpisodeIhiCheckList	

IHISearchByNumberAndPCEHRCheck

3.8.3 Discontinued

ID	Interfaces	Operations	Replacement
EHISC-478	IPatientServiceV4	CreateOrUpdateEpisode	This web service operation was created to support pinning and unpinning patients in HIPS UI. The replacement for that purpose is the PinPatient and UnpinPatient operations. For any other updates to episodes, sites should use the NotifyPasEvent operation.

3.9 HIPS 7.0.1

3.9.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-509	4.0.0 - 7.0.0	Syntactic	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	Syntactic	IHpIIServiceV2	HpIIBatchRetrieve	HIPS now returns service messages returned by the HI Service for HPI-I Batch Retrieve operations on the HIPS HpIIService V2 interface.

3.10 HIPS 7.0

3.10.1 New

ID	Interfaces	Operations	Description
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EHISC- IPatientServiceV4 138	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.</p> <p>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>
EHISC- IPatientServiceV4 141	IPumaInterfaceServiceV2 ListAdmittedPatients IHISearchByNumberAndPCEHRCheck GetEpisodelhiCheckList UpdateEpisodelhiCheckList PatientsWithOverridesReport		<p>HIPS has been extended with the following previously custom functionality:</p> <ul style="list-style-type: none"> • IHI Reconciliation report • Override Report • Disclose hidden record for the root health organisation
EHISC- IPatientServiceV4 145	RegisterPatient CreateOrUpdateEpisode GetPatientInHospitalDetails ListPatientsInHospital GetPatientIhiDetails		<p>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.</p>

EHISC- 185	IPcehrServiceV3	GetQueuedOperation	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.
		GetQueuedOperations	
		SearchQueuedOperations	

3.10.2 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC- 088	6.0.0 - 6.2.0	Syntactic & Semantic	IPcehrServiceV2	UploadOrRemovePathology	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.
			IPathologyImagingService	UploadOrRemoveImaging	
			IPathologyImagingServiceV2		

EHISC-124	4.0.0 - 6.2.2	Semantic	IIHIService	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. 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> <p>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.”</p> <p>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.</p> <p>Additional information available in the response from the HI Service is populated into the HipsResponse as follows:</p> <p>The ResponseCode is set to the code of the first highest severity service message returned from the HI Service.</p> <p>The ResponseCodeDescription is set to the reason of the first service message returned from the HI Service.</p> <p>The ResponseCodeDetails is set to string constructed from the values of each service</p>
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message (including any detail elements) returned from the HI Service.
The ValidatedIhi element does not contain any values.
An appropriate corresponding error is logged to the HIPS System Error Log, including details returned from the HI Service.

EHISC-132	4.0.0 - 6.2.2	Semantic	IAssistedRegistrationService	CheckConsent	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.
			ICdaService	GainAccessEmergency	
			IConsentService	GainAccessWithCode	
			IIHIService	GainAccessWithOutCode	
			IPatientService	GetChangeHistoryView	
			IPatientServiceV2	GetDocumentList	
			IPatientServiceV3	GetDocumentListActive	
			IPCEHRService	GetEpisodeDetails	
			IPcehrServiceV2	GetLocalUploadedDocument	
			IPathologyImagingService	GetPatientDisclosureDetails	
			IPathologyImagingServiceV2	GetPatientParticipationStatus	
			IDatabaseLoaderService	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

EHISC-136	4.0.0 - 6.2.2	Semantic	IPCEHRService	UploadOrSupersedeDocument	<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. HIPS has been modified to:</p> <p>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.</p> <p>Support the following configuration for retries on database lock error:</p> <p>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.</p> <p>Retry delay: The delay in milliseconds between the retry attempt. Via the new "DBLockRetryDelay" configuration setting.</p> <p>Support the logging of the retry for an upload operation for system diagnostic purposes.</p> <p>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.</p>
			IPcehrServiceV2	UploadOrSupersedeDischargeSummaryLevel1A	
			IPathologyImagingService	UploadOrRemovePathology	
			IPathologyImagingServiceV2	UploadOrRemoveImaging	

EHISC-140	4.0.0 - 6.2.2	Semantic	IAssistedRegistrationService	CheckConsent	<p>The following improvements have been made:</p> <p>Introduced the HIPS 7.0 - Topology and Configuration Guide document as part of the HIPS release package documentation</p> <p>Reduced excessive interactions with HI Service to obtain and validate IHI:</p> <p>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.</p> <p>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".</p>
			ICdaService	GainAccessEmergency	
			IConsentService	GainAccessWithCode	
			IIHIService	GainAccessWithOutCode	
			IPatientService	GetChangeHistoryView	
			IPatientServiceV2	GetDocumentList	
			IPatientServiceV3	GetDocumentListActive	
			IPCEHRService	GetEpisodeDetails	
			IPcehrServiceV2	GetLocalUploadedDocument	
			IPathologyImagingService	GetPatientDisclosureDetails	
			IPathologyImagingServiceV2	GetPatientParticipationStatus	
			IDatabaseLoaderService	GetValidatedIhi	
				GetView	
				IsPcehrAdvertised	
				ListPatientEpisodesInHospital	
				ListUploadedDocuments	
				RecordConsent	
				RecordDisclosure	
				RegisterDependant	
				RegisterPatient	
				Remove	
				ReregisterDependant	

ReregisterPatient	<p>Reduced excessive interactions with My Health Record system to determine if My Health Record exists:</p> <p>In previous versions of HIPS, HIPS executed a doesPcehrExist operation against the My Health Record system in the following circumstances:</p> <ul style="list-style-type: none"> • For a new episode or a new HL7 pathology or diagnostic imaging report • After it has obtained a valid IHI from the HI Service • When the following HIPS services are explicitly invoked: IsPcehrAdvertised, RefreshPatientParticipationStatus <p>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".</p>
RetrieveDocument	
UploadOrSupersedeDocument	
GetDiagnosticImagingReportView	
CreateDischargeSummaryLevel1A	
GetPatientInHospitalDetails	
GetHealthRecordOverview	
GetPathologyReportView	
ListPatientEpisodesInHospital	
IsPcehrAdvertisedLocal	
UploadOrSupersedeDischargeSummaryLevel1A	
RefreshPatientParticipationStatus	
UploadOrRemovePathology	
UploadOrRemoveImaging	
NotifyPasEvent	

EHISC-150	4.0.0 - 6.2.2	Semantic	IAssistedRegistrationService	CheckConsent	<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</p>
			ICdaService	GainAccessEmergency	
			IConsentService	GainAccessWithCode	
			IIHIService	GainAccessWithOutCode	
			IPatientService	GetChangeHistoryView	
			IPatientServiceV2	GetDocumentList	
			IPatientServiceV3	GetDocumentListActive	
			IPCEHRService	GetEpisodeDetails	
			IPcehrServiceV2	GetLocalUploadedDocument	
			IPathologyImagingService	GetPatientDisclosureDetails	
			IPathologyImagingServiceV2	GetPatientParticipationStatus	
			IDatabaseLoaderService	GetValidatedIhi	
				GetView	
				IsPcehrAdvertised	
				ListPatientEpisodesInHospital	
				ListUploadedDocuments	
				RecordConsent	
				RecordDisclosure	
				RegisterDependant	
				RegisterPatient	
				Remove	
				ReregisterDependant	

				ReregisterPatient	<p>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>
				RetrieveDocument	
				UploadOrSupersedeDocument	
				GetDiagnosticImagingReportView	
				CreateDischargeSummaryLevel1A	
				GetPatientInHospitalDetails	
				GetHealthRecordOverview	
				GetPathologyReportView	
				ListPatientEpisodesInHospital	
				IsPcehrAdvertisedLocal	
				UploadOrSupersedeDischargeSummaryLevel1A	
				RefreshPatientParticipationStatus	
				UploadOrRemovePathology	
				UploadOrRemoveImaging	
				NotifyPasEvent	
EHISC-153	4.0.0 - 6.2.2	Semantic	IPCEHRService	Remove	<p>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.</p>
			IPcehrServiceV2	UploadOrSupersedeDocument	
			IPathologyImagingService	UploadOrSupersedeDischargeSummaryLevel1A	
			IPathologyImagingServiceV2	UploadOrRemovePathology	
				UploadOrRemoveImaging	

EHISC-185	4.0.0 - 6.2.2	Syntactic & Semantic	IPCEHRService	Remove	<p>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.</p> <p>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.</p>
			IPcehrServiceV2	UploadOrSupersedeDocument	
			IPathologyImagingService	UploadOrSupersedeDischargeSummaryLevel1A	
			IPathologyImagingServiceV2	UploadOrRemovePathology UploadOrRemoveImaging	
EHISC-400	4.0.0 - 6.2.2	Semantic	IConsentService	GetRecentPatientParticipationStatus	<p>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.</p>

EHISC-429	6.0.0 - 6.2.2	Semantic	IPathologyImagingService	UploadOrRemovePathology	Pathology and Diagnostic Imaging uploads no longer perform an extra DoesPcehrExist call when first loaded.
			IPathologyImagingServiceV2	UploadOrRemoveImaging	

3.10.3 Discontinued

ID	Interfaces	Operations	Replacement
EHISC-185	IPCEHRService	GetIndividualOperationStatus	IPcehrServiceV3.GetQueuedOperation
		GetOperationStatus	IPcehrServiceV3.GetQueuedOperations
		GetQueuedOperationList	IPcehrServiceV3.SearchQueuedOperations

EHISC-401	IDirectoryConfigurationService	AbortMessage	N/A
	IDirectorySynchronisationService	AbortResponse	
	ILogService	ActivateDelegate	
	IMessageDeliveryService	ActivatePayloadScheme	
	IMessagePublishingService	AddAreaOfInterest	
	IMessageReceiptService	CreateIntermediary	
	IProviderIndividualDirectoryService	CreateLocalIdentifier	
	IProviderLocationDirectoryService	DeleteAreaOfInterest	
	IProviderOrganisationDirectoryService	DeleteIntermediary	
	IReferenceDataService	DeleteLocalIdentifier	
	IResponseDeliveryService	FindIndividuals	
	IResponseReceiptService	FindOrganisations	
	ISubscriptionService	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

3.11 HIPS 6.2.1

3.11.1 New

ID	Interfaces	Operations	Description
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EHISC-421	IPathologyImagingService	UploadOrRemovePathology	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.
	IPathologyImagingServiceV2	UploadOrRemoveImaging	

3.11.2 Changed

ID	Impact d Versions	Change Category	Interfaces	Operations	Description
EHISC-008	4.0.0 - 6.2.0	Semantic	IConsentService	GetPatientParticipationStatus	HIPS web services now return the correct My Health Record participation status when a patient is admitted to a second facility within 24 hours.
			IPCEHRService	RefreshPatientParticipationStatus	
			IPcehrServiceV2		
EHISC-029	4.0.0 - 6.2.0	Semantic	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-062	4.0.0 - 6.2.0	Semantic	IDatabaseLoaderService	NotifyPasEvent	The ADT interface now clears the stored discharge date when a message containing a Cancel Discharge event is received.

EHISC -070	4.0.0 - 6.2.0	Semantic	IAssistedRegistrationService	CheckConsent	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.
			ICdaService	GainAccessEmergency	
			IConsentService	GainAccessWithCode	
			IIHIService	GainAccessWithOutCode	
			IPatientService	GetChangeHistoryView	
			IPatientServiceV2	GetDocumentList	
			IPatientServiceV3	GetDocumentListActive	
			IPCEHRService	GetEpisodeDetails	
			IPcehrServiceV2	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
EHISC-075	5.0.0 - 6.2.0	Semantic	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.
EHISC-076	5.0.0 - 6.2.0	Semantic	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	Semantic	IDirectorySynchronisationService	Synchronise	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.
				SendMessage	
				IMessageDeliveryService	
					RetryMessage

EHISC -078	4.0.0 - 6.2.0	Semantic	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	Semantic	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	Semantic	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	Syntactic & Semantic	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	Semantic	IPCEHRService IPcehrServiceV2 IPathologyImagingService IPathologyImagingServiceV2	UploadOrSupersedeDocument UploadOrSupersedeDischargeSummaryLevel1 A 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	Semantic	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.
EHISC -101	6.0.0 - 6.1.1.5 & 6.2.0	Syntactic & Semantic	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	Semantic	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	Semantic	IPcehrServiceV2 IPathologyImagingService IPathologyImagingServiceV2	UploadOrRemovePathology UploadOrRemoveImaging	<p>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”.</p> <p>For Pathology Report, the asEmployment element is optional and will be omitted entirely when the organisation name is not specified.</p> <p>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.</p>
EHISC -104	6.0.0 - 6.1.1.6 & 6.2.0	Semantic	ICdaService IPcehrServiceV2	CreateDischargeSummaryLevel1A UploadOrSupersedeDischargeSummaryLevel1A	<p>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.</p> <p>When the discharge date is not specified, the encounter period will have a low value (admit date) and no high value (discharge date).</p>
EHISC -106	6.0.0 - 6.1.1.5 & 6.2.0	Semantic	IPcehrServiceV2 IPathologyImagingService IPathologyImagingServiceV2	UploadOrRemovePathology UploadOrRemoveImaging	<p>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.</p>

EHISC -113	5.0.0 - 6.1.1.1 & 6.2.0	Semantic	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.
EHISC -114	6.0.0 - 6.1.1.3 & 6.2.0	Semantic	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	Semantic	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	Semantic	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	Semantic	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	Semantic	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	Semantic	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.
EHISC -133	6.0.0 - 6.1.1.7 & 6.2.0	Semantic	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.
EHISC -134	6.0.0 - 6.1.1.7 & 6.2.0	Semantic	IPcehrServiceV2 IPathologyImagingService IPathologyImagingServiceV2	UploadOrRemoveImaging	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	Semantic	IPcehrServiceV2 IPathologyImagingService IPathologyImagingServiceV2	UploadOrRemoveImaging	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 -171	4.0.0	Semantic	IPCEHRService IPcehrServiceV2 IPathologyImagingService IPathologyImagingServiceV2	UploadOrSupersedeDocument UploadOrSupersedeDischargeSummaryLevel1 A 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	Semantic	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	Semantic	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	Semantic	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	Semantic	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	Semantic	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	Semantic	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.
EHISC -178	6.0.0 - 6.1.1.8 & 6.2.0	Semantic	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	Semantic	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	Semantic	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 -192	4.0.0	Semantic	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 -420	6.0.0 - 6.1.1.10 & 6.2.0	Semantic	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 -423	6.0.0 - 6.1.1.10 & 6.2.0	Semantic	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	Semantic	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.

EHISC-425	6.0.0 - 6.1.1.10 & 6.2.0	Semantic	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.
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3.11.3 Discontinued

ID	Interfaces	Operations	Replacement
EHISC-421	IPcehrServiceV2	UploadOrRemovePathology	IPathologyImagingServiceV2.UploadOrRemovePathology
	IPcehrServiceV3	UploadOrRemoveImaging	IPathologyImagingServiceV2.UploadOrRemoveImaging

3.12 HIPS 6.2.0

3.12.1 New

ID	Interfaces	Operations	Description
EHISC-068	IPatientServiceV3	ListPatientEpisodesInHospital ListPatientsInHospital ListAdmittedPatients	New services to retrieve patient and episode lists for HIPS UI with additional filters on DaysAfterService and DaysBeforePreAdmit.

3.13 HIPS 6.1.3

3.13.1 New

ID	Interfaces	Operations	Description
EHISC-410	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	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).

3.14 HIPS 6.1.2

3.14.1 New

ID	Interfaces	Operations	Description
EHISC-421	IPathologyImagingService IPathologyImagingServiceV2	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.

3.14.2 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-420	6.0.0 - 6.1.1.10 & 6.2.0	Semantic	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-423	6.0.0 - 6.1.1.10 & 6.2.0	Semantic	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	Semantic	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.

EHISC-425	6.0.0 - 6.1.1.10 & 6.2.0	Semantic	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.
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3.14.3 Discontinued

ID	Interfaces	Operations	Replacement
EHISC-421	IPcehrServiceV2 IPcehrServiceV3	UploadOrRemovePathology UploadOrRemoveImaging	IPathologyImagingServiceV2.UploadOrRemovePathology IPathologyImagingServiceV2.UploadOrRemoveImaging

3.15 HIPS 6.1.1.10

3.15.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-184	6.0.0 - 6.1.1.9 & 6.2.0	Semantic	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.

3.16 HIPS 6.1.1.9

3.16.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-173	6.0.0 - 6.1.1.8 & 6.2.0	Semantic	IPcehrServiceV2	UploadOrRemovePathology	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.
			IPathologyImagingService	UploadOrRemoveImaging	
			IPathologyImagingServiceV2		
EHISC-174	6.0.0 - 6.1.1.8 & 6.2.0	Semantic	IPcehrServiceV2	UploadOrRemovePathology	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.
			IPathologyImagingService	UploadOrRemoveImaging	
			IPathologyImagingServiceV2		
EHISC-176	6.0.0 - 6.1.1.8 & 6.2.0	Semantic	ICdaService	CreateDischargeSummaryLevel1A	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.
			IPcehrServiceV2	UploadOrSupersedeDischargeSummaryLevel1A	
			IPathologyImagingService	UploadOrRemovePathology	
			IPathologyImagingServiceV2	UploadOrRemoveImaging	
EHISC-177	6.0.0 - 6.1.1.8 & 6.2.0	Semantic	IPcehrServiceV2	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.
			IPathologyImagingService		
			IPathologyImagingServiceV2		
EHISC-178	6.0.0 - 6.1.1.8 & 6.2.0	Semantic	IPcehrServiceV2	UploadOrRemovePathology	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.
			IPathologyImagingService	UploadOrRemoveImaging	
			IPathologyImagingServiceV2		

3.17 HIPS 6.1.1.8

3.17.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-133	6.0.0 - 6.1.1.7 & 6.2.0	Semantic	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.
EHISC-134	6.0.0 - 6.1.1.7 & 6.2.0	Semantic	IPcehrServiceV2 IPathologyImagingService IPathologyImagingServiceV2	UploadOrRemoveImaging	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	Semantic	IPcehrServiceV2 IPathologyImagingService IPathologyImagingServiceV2	UploadOrRemoveImaging	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.

3.18 HIPS 6.1.1.7

3.18.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-104	6.0.0 - 6.1.1.6 & 6.2.0	Semantic	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).

3.19 HIPS 6.1.1.6

3.19.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-101	6.0.0 - 6.1.1.5 & 6.2.0	Syntactic & Semantic	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-103	6.0.0 - 6.1.1.5 & 6.2.0	Semantic	IPcehrServiceV2 IPathologyImagingService IPathologyImagingServiceV2	UploadOrRemovePathology UploadOrRemoveImaging	<p>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".</p> <p>For Pathology Report, the asEmployment element is optional and will be omitted entirely when the organisation name is not specified.</p> <p>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.</p>
EHISC-106	6.0.0 - 6.1.1.5 & 6.2.0	Semantic	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-119	6.0.0 - 6.1.1.5 & 6.2.0	Semantic	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-122	6.0.0 - 6.1.1.5 & 6.2.0	Semantic	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.

3.20 HIPS 6.1.1.5

3.20.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-100	6.0.0 - 6.1.1.4 & 6.2.0	Semantic	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.
EHISC-102	6.0.0 - 6.1.1.4 & 6.2.0	Semantic	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-120	6.0.0 - 6.1.1.4 & 6.2.0	Semantic	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.

3.21 HIPS 6.1.1.4

3.21.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-114	6.0.0 - 6.1.1.3 & 6.2.0	Semantic	IPcehrServiceV2	UploadOrRemovePathology	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.
			IPathologyImagingService	UploadOrRemoveImaging	
			IPathologyImagingServiceV2		
EHISC-116	6.0.0 - 6.1.1.3 & 6.2.0	Semantic	IPcehrServiceV2	UploadOrRemovePathology	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.
			IPathologyImagingService	UploadOrRemoveImaging	
			IPathologyImagingServiceV2		

3.22 HIPS 6.1.1.3

3.22.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-115	6.0.0 - 6.1.1.2 & 6.2.0	Semantic	IPcehrServiceV2	UploadOrRemovePathology	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.
			IPathologyImagingService	UploadOrRemoveImaging	
			IPathologyImagingServiceV2		

3.23 HIPS 6.1.1.2

3.23.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-113	5.0.0 - 6.1.1.1 & 6.2.0	Semantic	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.

3.24 HIPS 6.1.0

3.24.1 Changed

ID	Impacted Versions	Change Category	Interfaces	Operations	Description
EHISC-005	4.0.0 - 6.0.0	Semantic	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-018	6.0.0	Semantic	IPcehrServiceV2	UploadOrRemovePathology UploadOrRemovelmaging	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	Semantic	ICdaService	PackageCdaDocument	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.
			IPCEHRService	UploadOrSupersedeDocument	
			IPcehrServiceV2	UploadOrSupersedeDischargeSummaryLevel1A	
				UploadOrRemovePathology	
				UploadOrRemoveImaging	
EHISC-031	6.0.0	Semantic	IPcehrServiceV2	UploadOrRemovePathology	Mapping of test results from OBR-4 corrected for pathology reports and diagnostic imaging reports.
				UploadOrRemoveImaging	