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## **HIPS**

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# Document information

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Product version	Date	Release comments
5.0	July 2015	Initial release (HIPS 5.0)
6.1	November 2016	See release note (DH-2445:2016) for details of changes and bug fixes.

# Table of contents

<b>1.</b>	<b>Introduction .....</b>	<b>6</b>
1.1	Purpose .....	6
1.2	Scope.....	6
1.3	Assumptions .....	6
1.4	Definitions and Acronyms .....	6
<b>2.</b>	<b>HIPS P2P .....</b>	<b>8</b>
2.1	DirectoryConfigurationService Web Service .....	9
2.1.1	Methods: DirectoryConfigurationService .....	10
2.1.2	Complex Types: DirectoryConfigurationService .....	21
2.1.3	Simple Types: DirectoryConfigurationService.....	36
2.2	DirectorySynchronisationService Web Service .....	39
2.2.1	Methods: DirectorySynchronisationService .....	40
2.2.2	Complex Types: DirectorySynchronisationService .....	43
2.2.3	Simple Types: DirectorySynchronisationService .....	82
2.3	MessageDeliveryService Web Service .....	86
2.3.1	Methods: MessageDeliveryService.....	87
2.3.2	Complex Types: MessageDeliveryService .....	94
2.3.3	Simple Types: MessageDeliveryService.....	133
2.4	MessagePublishingService Web Service .....	139
2.4.1	Methods: MessagePublishingService .....	140
2.4.2	Complex Types: MessagePublishingService .....	142
2.4.3	Simple Types: MessagePublishingService .....	161
2.5	MessageReceiptService Web Service .....	164
2.5.1	Methods: MessageReceiptService .....	165
2.5.2	Complex Types: MessageReceiptService .....	172
2.5.3	Simple Types: MessageReceiptService .....	203
2.6	ProviderIndividualDirectoryService Web Service .....	209
2.6.1	Methods: ProviderIndividualDirectoryService .....	210
2.6.2	Complex Types: ProviderIndividualDirectoryService .....	216
2.6.3	Simple Types: ProviderIndividualDirectoryService .....	269
2.7	ProviderLocationDirectoryService Web Service.....	273
2.7.1	Methods: ProviderLocationDirectoryService .....	274
2.7.2	Complex Types: ProviderLocationDirectoryService.....	278
2.7.3	Simple Types: ProviderLocationDirectoryService .....	296
2.8	ProviderOrganisationDirectoryService Web Service .....	299
2.8.1	Methods: ProviderOrganisationDirectoryService .....	300
2.8.2	Complex Types: ProviderOrganisationDirectoryService .....	306

2.8.3	Simple Types: ProviderOrganisationDirectoryService .....	356
2.9	ReferenceDataService Web Service .....	360
2.9.1	Methods: ReferenceDataService.....	361
2.9.2	Complex Types: ReferenceDataService .....	365
2.9.3	Simple Types: ReferenceDataService.....	377
2.10	SubscriptionService Web Service .....	380
2.10.1	Methods: SubscriptionService.....	381
2.10.2	Complex Types: SubscriptionService .....	388
2.10.3	Simple Types: SubscriptionService .....	434

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to provide technical details of the HIPS P2P Web Services including the methods that can be invoked and the expected types.

The intended audience for this document is technical users who are integrating the provided HIPS P2P Web Services with existing ESB and CIS systems.

## 1.2 Scope

The document describes each of the web services that the HIPS P2P Module provides. Below each web service are the methods provided in the respective service and also the detail of the complex types and simple types.

This document does not describe in detail the functionality of the web service methods or detail the required these are covered in the *HIPS Release v6.1 – Module Guide (P2P)* document.

This document does not describe any details of the other HIPS web services as these are covered by other documentation.

## 1.3 Assumptions

During the development of this document the following assumptions have been made:

- The document audience are technical users
- The web services are called via SOAP

## 1.4 Definitions and Acronyms

The following acronyms have been used through the document:

Item	Definition
ESB	Enterprise Service Bus – integration hub for routing and transforming messages within and between healthcare facilities.
HL7	Health Level Seven
HIPS	Healthcare Identifier and PCEHR Systems
MRN	Medical Record Number
CDA	Clinical Document Architecture
DTO	Data Transfer Object
IVC	Individual Verification Code
P2P	Provider to Provider, an HIPS Module used for Secure Message Delivery between Health Providers
SMD	Secure Message Delivery
PDF	Portable Document Format

Item	Definition
HI	Healthcare Identifier
HPI-I	Healthcare Provider Identifier for a Health Provider Individual
HPI-O	Healthcare Provider Identifier for a Health Provider Organisation
IHI	Individual Healthcare Identifier
OID	HL7 Object Identifier
PAS	Patient Administration System
MLLP	Minimal Lower Layer Protocol used to transport HL7 messages

## 2. HIPS P2P

### Sources

Name	Description
<a href="#">DirectoryConfigurationService</a>	Service contract to support the maintenance of system configuration data within the LHSD data store.
<a href="#">DirectorySynchronisationService</a>	Service contract to support the synchronisation of the LHSD with upstream systems (e.g. NHSD, HI) and downstream systems (e.g. PAS, CIS).
<a href="#">MessageDeliveryService</a>	Service contract to support the delivery and management of messages sent via SMD.
<a href="#">MessagePublishingService</a>	Provides access to the HIPS "PublishMessage" resource.
<a href="#">MessageReceiptService</a>	Service contract to support the receipt and management of messages sent via SMD.
<a href="#">ProviderIndividualDirectoryService</a>	Service contract to support maintaining a directory of provider individual information.
<a href="#">ProviderLocationDirectoryService</a>	Service contract to support maintaining a directory of provider organisation information.
<a href="#">ProviderOrganisationDirectoryService</a>	Service contract to support maintaining a directory of provider organisation information.
<a href="#">ReferenceDataService</a>	Service contract to support reference data lookup and updates.
<a href="#">SubscriptionService</a>	Service contract to support the maintenance of subscriptions with the NEPS.



## 2.1 DirectoryConfigurationService Web Service

### Description

Service contract to support the maintenance of system configuration data within the LHSD data store.

### See Also

- [Methods](#)
- [Complex Types](#)
- [Simple Types](#)

## 2.1.1 Methods: DirectoryConfigurationService

### Methods

Name	Description
<a href="#">ActivateDelegate</a>	Sets the activation state of a specified delegate in order to activate or inactivate it.
<a href="#">ActivatePayloadScheme</a>	Sets the activation state of a specified payload scheme in order to activate or inactivate it.
<a href="#">CreateIntermediary</a>	Creates an intermediary.
<a href="#">DeleteIntermediary</a>	Deletes a specified intermediary.
<a href="#">ListDelegates</a>	Returns a list of all configured delegates.
<a href="#">ListDocumentTypes</a>	Returns a list of all configured document types.
<a href="#">ListIntermediaries</a>	Returns a list of all configured intermediaries.
<a href="#">ListPayloadSchemes</a>	Returns a list of all configured payload schemes.
<a href="#">MediateDelegate</a>	Sets the intermediary for a specified delegate.
<a href="#">PrioritiseDelegate</a>	Sets the priority of a specified delegate in relation to another delegate. The specified delegate will be prioritised higher than the other delegate. If no other delegate is specified, the specified delegate will be assigned the lowest priority.

**Method: ActivateDelegate****Description**

Sets the activation state of a specified delegate in order to activate or inactivate it.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: ActivatePayloadScheme****Description**

Sets the activation state of a specified payload scheme in order to activate or inactivate it.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: CreateIntermediary****Description**

Creates an intermediary.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: DeleteIntermediary****Description**

Deletes a specified intermediary.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: ListDelegates****Description**

Returns a list of all configured delegates.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfDelegate	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: ListDocumentTypes****Description**

Returns a list of all configured document types.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfDocumentType	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	



**Method: ListIntermediaries****Description**

Returns a list of all configured intermediaries.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfIntermediary	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: ListPayloadSchemes****Description**

Returns a list of all configured payload schemes.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfPayloadScheme	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: MediateDelegate****Description**

Sets the intermediary for a specified delegate.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: PrioritiseDelegate****Description**

Sets the priority of a specified delegate in relation to another delegate. The specified delegate will be prioritised higher than the other delegate. If no other delegate is specified, the specified delegate will be assigned the lowest priority.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

## 2.1.2 Complex Types: DirectoryConfigurationService

### Complex Types

Name	Description
<a href="#">Delegate</a>	Delegate DTO.
<a href="#">DocumentType</a>	Document type DTO.
<a href="#">FaultBase</a>	
<a href="#">Intermediary</a>	Intermediary DTO.
<a href="#">InvalidRequestFault</a>	Represents a failure within the conditions defined to validate the request to the service operation.
<a href="#">LocalUser</a>	
<a href="#">Message</a>	Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.
<a href="#">PayloadPackaging</a>	Payload packaging DTO.
<a href="#">PayloadScheme</a>	Payload scheme DTO.
<a href="#">PersistedDTOBase</a>	
<a href="#">ProviderUser</a>	
<a href="#">ResponsibleUser</a>	
<a href="#">ServiceOperationFault</a>	Represents a general failure within the service operation
<a href="#">UserBase</a>	Abstract base class for identifying an end user.

**Complex Type: Delegate****Description**

Delegate DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the delegate.
Intermediary	<a href="#">Intermediary</a>	1..1	Gets or sets the intermediary associated with the delegate.
IsActive	boolean	1..1	Gets or sets a value indicating whether the delegate is active (available for use).
Name	string	1..1	Gets or sets the name of the delegate.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the delegate, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the delegate.

**Complex Type: DocumentType****Description**

Document type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code that identifies this type of document.
Description	string	1..1	Gets or sets the name of the document type.

**Complex Type: FaultBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Referenced By**

Name	Type
<a href="#">InvalidRequestFault</a>	Complex Type
<a href="#">ServiceOperationFault</a>	Complex Type



## Complex Type: Intermediary

### Description

Intermediary DTO.

### Derived By

Extending [PersistedDTOBase](#)

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Name	string	1..1	Gets or sets the name of the intermediary.
ServiceEndpointUri	string	1..1	Gets or sets the service endpoint URI of the intermediary.

**Complex Type: InvalidRequestFault****Description**

Represents a failure within the conditions defined to validate the request to the service operation.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.
Messages	ArrayOfMessage	0..1	Gets or sets the set of messages associated with the fault.

**Complex Type: LocalUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
Domain	string	1..1	Gets or sets the name of the directory domain of the user within the local directory.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Login	string	1..1	Gets or sets the name of the login (account) of the user within the local directory.

**Complex Type: Message****Description**

Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Code	string	0..1	Gets or sets the code associated with the message.
Data	anyType	0..1	Gets or sets any additional data associated with the message.
Description	string	1..1	Gets or sets a detailed description of the message content.
Level	<a href="#">MessageLevel</a>	1..1	Gets or sets the level associated with the message.
Messages	ArrayOfMessage	1..1	Gets or sets the set of messages associated with the message.
Origin	string	1..1	Gets or sets a string identifying the origin of the message, such as "HIPS" or "PCEHR".

**Complex Type: PayloadPackaging****Description**

Payload packaging DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Description	string	1..1	Gets or sets a descriptive name for the payload packaging mechanism.

**Complex Type: PayloadScheme****Description**

Payload scheme DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the payload scheme.
DocumentType	<a href="#">DocumentType</a>	1..1	Gets or sets the document type associated with the payload scheme.
IsActive	boolean	1..1	Gets or sets a value indicating whether the payload scheme is active (available for use).
Name	string	1..1	Gets or sets the name of the payload scheme.
PayloadPackaging	<a href="#">PayloadPackaging</a>	1..1	Gets or sets the payload packaging associated with the payload scheme.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the payload scheme, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the payload scheme.

**Complex Type: PersistedDTOBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.

**Referenced By**

Name	Type
<a href="#">Delegate</a>	Complex Type
<a href="#">DocumentType</a>	Complex Type
<a href="#">Intermediary</a>	Complex Type
<a href="#">PayloadPackaging</a>	Complex Type
<a href="#">PayloadScheme</a>	Complex Type

**Complex Type: ProviderUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Hpil	string	1..1	Gets or sets the health provider identifier - individual identifying the provider user.



**Complex Type: ResponsibleUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Complex Type: ServiceOperationFault****Description**

Represents a general failure within the service operation

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Complex Type: UserBase****Description**

Abstract base class for identifying an end user.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Referenced By**

Name	Type
<a href="#">LocalUser</a>	Complex Type
<a href="#">ProviderUser</a>	Complex Type
<a href="#">ResponsibleUser</a>	Complex Type

### 2.1.3 Simple Types: DirectoryConfigurationService

#### Simple Types

Name	Description
<a href="#">MessageLevel</a>	Represents the level of a message returned by a service operation.
<a href="#">ResponseStatus</a>	Represents the outcome of a service operation.

**Simple Type: MessageLevel**

**Description**

Represents the level of a message returned by a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No level has been defined.
Information	The message contains information.
Warning	The message contains a warning.
Error	The message contains an error description.

**Simple Type: ResponseStatus****Description**

Represents the outcome of a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No status has been defined.
OK	The service operation was successful.
Warning	The service operation may have been successful, with associated warning messages.

## 2.2 DirectorySynchronisationService Web Service

### Description

Service contract to support the synchronisation of the LHSD with upstream systems (e.g. NHSD, HI) and downstream systems (e.g. PAS, CIS).

### See Also

- [Methods](#)
- [Complex Types](#)
- [Simple Types](#)

### 2.2.1 Methods: DirectorySynchronisationService

#### Methods

Name	Description
<a href="#">RetrieveChanges</a>	Returns a list of changes for each of the logical entities in the directory. If neither a ChangeNumber nor a ChangeTimestamp are provided, returns changes starting with the earliest recorded change.
<a href="#">Synchronise</a>	Retrieves changes to provider information using the NEPS Subscription Service. The background synchronisation service will apply the changes on its next run.



**Method: RetrieveChanges****Description**

Returns a list of changes for each of the logical entities in the directory. If neither a ChangeNumber nor a ChangeTimestamp are provided, returns changes starting with the earliest recorded change.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">ChangeList</a>	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: Synchronise****Description**

Retrieves changes to provider information using the NEPS Subscription Service. The background synchronisation service will apply the changes on its next run.

**Parameters**

Name	Type	Direction	Description
request	<a href="#">SynchroniseRequest</a>	Input	Request message.

**Returns**

Response message.

Name	Type	Description
Messages	ArrayOfMessage	Gets or sets the set of messages associated with the response.
Status	<a href="#">ResponseStatus</a>	Gets or sets a value representing the status of the response.

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

## 2.2.2 Complex Types: DirectorySynchronisationService

### Complex Types

Name	Description
<a href="#">Address</a>	Address DTO.
<a href="#">ChangeList</a>	ChangeList DTO.
<a href="#">ChannelCarrier</a>	Channel Carrier DTO.
<a href="#">ChannelType</a>	Channel type DTO.
<a href="#">DocumentChannelPreference</a>	DocumentChannelPreference DTO. This is based on the NEPS DCP model.
<a href="#">ElectronicContact</a>	ElectronicContact DTO.
<a href="#">FaultBase</a>	
<a href="#">IndividualChange</a>	IndividualChange DTO.
<a href="#">IndividualName</a>	Individual Name DTO.
<a href="#">IndividualNameAlias</a>	Individual Name Alias DTO.
<a href="#">IndividualOccupation</a>	Individual Occupation DTO.
<a href="#">InvalidRequestFault</a>	Represents a failure within the conditions defined to validate the request to the service operation.
<a href="#">LinkChange</a>	LinkChange DTO.
<a href="#">LocalUser</a>	
<a href="#">LocationChange</a>	LocationChange DTO.
<a href="#">LocationClassification</a>	LocationClassification DTO.
<a href="#">Message</a>	Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.
<a href="#">OrganisationChange</a>	OrganisationChange DTO.
<a href="#">OrganisationName</a>	Organisation Name DTO.
<a href="#">PersistedDTOBase</a>	
<a href="#">ProprietaryValue</a>	ProprietaryValue DTO. This is an extension property (name and value pair) used to store jurisdiction-specific proprietary messaging information. An example is Queensland Health's STS addressing data.
<a href="#">ProviderIdentifier</a>	
<a href="#">ProviderIdentifierStatus</a>	Provider Identifier Status DTO.
<a href="#">ProviderIdentifierType</a>	Provider Identifier Type DTO.
<a href="#">ProviderIndividualIdentifier</a>	Provider Individual Identifier DTO.
<a href="#">ProviderLinkIdentifier</a>	Provider Link Identifier DTO.
<a href="#">ProviderLocationIdentifier</a>	Provider Location Identifier DTO. Examples are NHSD Site ID or STS Location ID.
<a href="#">ProviderOrganisationIdentifier</a>	Provider Organisation Identifier DTO.
<a href="#">ProviderUser</a>	
<a href="#">RequestBase</a>	
<a href="#">ResponseBase</a>	
<a href="#">ResponsibleUser</a>	
<a href="#">ServiceOperationFault</a>	Represents a general failure within the service operation
<a href="#">Sex</a>	Sex DTO.
<a href="#">SynchroniseRequest</a>	Request message for the Synchronise service operation.

Name	Description
<a href="#">SynchroniseResponse</a>	Response message for the Synchronise service operation.
<a href="#">UserBase</a>	Abstract base class for identifying an end user.

**Complex Type: Address****Description**

Address DTO.

**Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AddressSiteName	string	0..1	Gets or sets the site name.
ContactPurposeCode	string	0..1	Gets or sets the Code for the contact purpose.
ContactPurposeDisplayName	string	0..1	Gets or sets the DisplayName for the contact purpose.
ContactPurposeUri	string	0..1	Gets or sets the NHSD URI for the contact purpose.
Elevation	int	0..1	Gets or sets the geocoded elevation in metres.
FlatNumber	string	0..1	Gets or sets the unit number.
FlatType	string	0..1	Gets or sets the flat type reference item display name.
Latitude	double	0..1	Gets or sets the geocoded latitude in degrees.
LevelNumber	string	0..1	Gets or sets the level number.
LevelType	string	0..1	Gets or sets the level type.
Longitude	double	0..1	Gets or sets the geocoded longitude in degrees.
LotNumber	string	0..1	Gets or sets the lot number.
PostalDeliveryNumber	string	0..1	Gets or sets the postal delivery number.
PostalDeliveryType	string	0..1	Gets or sets the postal delivery type.
Postcode	string	0..1	Gets or sets the postcode.
State	string	0..1	Gets or sets the state or territory.
StreetName	string	0..1	Gets or sets the street name.
StreetNumber	string	0..1	Gets or sets the street number.
StreetSuffix	string	0..1	Gets or sets the street suffix.
StreetType	string	0..1	Gets or sets the street type.
Suburb	string	0..1	Gets or sets the suburb, town or locality.
UnstructuredAddressLine	string	0..1	Gets or sets the unstructured address line.

**Complex Type: ChangeList****Description**

ChangeList DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
IndividualChanges	ArrayOfIndividualChange	0..1	Gets or sets the list of changes to individuals.
LinkChanges	ArrayOfLinkChange	0..1	Gets or sets the list of changes to links.
LocationChanges	ArrayOfLocationChange	0..1	Gets or sets the list of changes to locations.
OrganisationChanges	ArrayOfOrganisationChange	0..1	Gets or sets the list of changes to organisations.

**Complex Type: ChannelCarrier****Description**

Channel Carrier DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelCarrierCode	string	0..1	Gets or sets the Code for the channel carrier.
ChannelCarrierDisplayName	string	0..1	Gets or sets the Display Name for the channel carrier.
ChannelCarrierURI	string	1..1	Gets or sets the NHSD URI for the channel carrier.
Preference	long	1..1	Gets or sets the The relative preference of this carrier among those supported for delivery of a particular payload scheme via a particular channel type to a particular organisation or location..
ProprietaryValues	ArrayOfProprietaryValue	1..1	Gets or sets the list of proprietary values for the channel carrier.

**Complex Type: ChannelType****Description**

Channel type DTO.

**Derived By**

Extending [PersistedDTOTBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelCarriers	ArrayOfChannelCarrier	0..1	Gets or sets, if applicable, a list of messaging vendors through which the provider location can receive documents over this channel. Examples are Argus, HealthLink or Medical Objects. Not applicable for fax or post.
ChannelTypeCode	string	0..1	Gets or sets the NHSD Code for this channel type.
ChannelTypeDescription	string	0..1	Gets or sets the NHSD Description for this channel type.
ChannelTypeUri	string	0..1	Gets or sets the NHSD URI for the channel type.
DocumentFormatDisplayName	string	0..1	Gets or sets the NHSD Display name for the format in which the document must be sent when delivering using channel type.
DocumentFormatUri	string	0..1	Gets or sets the NHSD Uri for the format in which the document must be sent when delivering using channel type.
PayloadScheme	string	1..1	Gets or sets the Payload Scheme URI for the format in which the document must be sent when delivering using this channel type.
Preference	long	1..1	Gets or sets the degree to which the provider location prefers this channel to other channels for the same document type.
ProprietaryValues	ArrayOfProprietaryValue	1..1	Gets or sets the list of proprietary values for the channel type.



**Complex Type: DocumentChannelPreference****Description**

DocumentChannelPreference DTO. This is based on the NEPS DCP model.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelTypes	ArrayOfChannelType	1..1	Gets or sets the list of channels by which the provider location can accept this document type. Examples are SMD, Email, Proprietary, Fax or Post.
DocumentChannelPreferenceId	string	0..1	Gets or sets the document channel preference ID from NEPS.
DocumentTypeCode	string	1..1	Gets or sets the code for the document type.
DocumentTypeDisplayName	string	1..1	Gets or sets the Display Name for the document type.
DocumentTypeOid	string	1..1	Gets or sets the NHSD Root OID for the document type code.
DocumentTypeUri	string	1..1	Gets or sets the NHSD URI for the document type that this record expresses a preference for delivery of.
LocationId	string	0..1	Gets or sets the primary identifier of the target provider location.
OrganisationId	string	0..1	Gets or sets the primary identifier of the target provider organisation.

**Complex Type: ElectronicContact****Description**

ElectronicContact DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ContactPurposeCode	string	0..1	Gets or sets the Code for the contact purpose.
ContactPurposeDisplayName	string	0..1	Gets or sets the DisplayName for the contact purpose.
ContactPurposeUri	string	0..1	Gets or sets the Uri for the contact purpose.
ContactTypeCode	string	0..1	Gets or sets the code for the contact type.
ContactTypeDisplayName	string	0..1	Gets or sets the DisplayName for the contact type.
ContactTypeUri	string	0..1	Gets or sets the NHSD URI for the Contact Type.
Preference	long	0..1	Indicates whether this is the preferred method of contacting the individual or organisation.
Value	string	0..1	Gets or sets the Actual number or address that can be used to contact the individual or organisation.

**Complex Type: FaultBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Referenced By**

Name	Type
<a href="#">InvalidRequestFault</a>	Complex Type
<a href="#">ServiceOperationFault</a>	Complex Type

**Complex Type: IndividualChange****Description**

IndividualChange DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Aliases	ArrayOfIndividualNameAlias	0..1	Gets or sets the List of names that the individual is known as.
ChangeId	int	1..1	Gets or sets the change identifier.
ChangeType	<a href="#">ChangeType</a>	1..1	Gets or sets the type of change.
Contacts	ArrayOfElectronicContact	0..1	Gets or sets the list of electronic contact details.
DateOfBirth	dateTime	0..1	Gets or sets the date of birth.
Identifiers	ArrayOfProviderIndividualIdentifier	1..1	Gets or sets the list of identifiers.
IndividualId	string	1..1	Gets or sets the LHSD identifier of the individual.
Name	<a href="#">IndividualName</a>	0..1	Gets or sets the list of names.
Services	ArrayOfIndividualOccupation	0..1	Gets or sets the list of classifications.
Sex	<a href="#">Sex</a>	0..1	Gets or sets the sex of the individual.

**Complex Type: IndividualName****Description**

Individual Name DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
FamilyName	string	1..1	Gets or sets the family name of the individual.
GivenName	string	1..1	Gets or sets the given names of the individual, separated by spaces.
MiddleName	string	1..1	Gets or sets the middle name of the individual, separated by spaces.
Title	string	1..1	Gets or sets the titles of the individual, separated by spaces.

**Complex Type: IndividualNameAlias****Description**

Individual Name Alias DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
KnownAsCode	string	0..1	Gets or sets the Code of the 'known as' reference item..
KnownAsDisplayName	string	0..1	Gets or sets the Display Name of the 'known as' reference item.
KnownAsURI	string	1..1	Gets or sets the URI of the 'known as' reference item..
Value	string	1..1	Gets or sets the name by which the individual is known.

**Complex Type: IndividualOccupation****Description**

Individual Occupation DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:SEQUENCE</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	0..1	Gets or sets the Code for the occupation.
DisplayName	string	0..1	Gets or sets the Display Name for the occupation.
URI	string	0..1	Gets or sets the URI for the occupation.

**Complex Type: InvalidRequestFault****Description**


Represents a failure within the conditions defined to validate the request to the service operation.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.
Messages	ArrayOfMessage	0..1	Gets or sets the set of messages associated with the fault.



**Complex Type: LinkChange****Description**

LinkChange DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Addresses	ArrayOfAddress	0..1	Gets or sets the addresses.
ChangeId	int	1..1	Gets or sets the change identifier.
ChangeType	<a href="#">ChangeType</a>	1..1	Gets or sets the type of change.
Identifiers	ArrayOfProviderLinkIdIdentifier	0..1	Gets or sets the identifiers.
IndividualId	string	1..1	Gets or sets the individual identifier.
LocationId	string	1..1	Gets or sets the location identifier.

**Complex Type: LocalUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
Domain	string	1..1	Gets or sets the name of the directory domain of the user within the local directory.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Login	string	1..1	Gets or sets the name of the login (account) of the user within the local directory.

**Complex Type: LocationChange****Description**

LocationChange DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Addresses	ArrayOfAddress	0..1	Gets or sets the list of addresses.
ChangeId	int	1..1	Gets or sets the change identifier.
ChangeType	<a href="#">ChangeType</a>	1..1	Gets or sets the type of change.
Channels	ArrayOfDocumentChannelPreference	0..1	Gets or sets the list of document channel preferences.
Classifications	ArrayOfLocationClassification	0..1	Gets or sets the list of classifications.
Contacts	ArrayOfElectronicContact	0..1	Gets or sets the list of electronic contact details.
Description	string	0..1	Gets or sets the location description.
Identifiers	ArrayOfProviderLocationIdentifier	0..1	Gets or sets the list of location identifiers.
LocationId	string	1..1	Gets or sets the LHSD identifier of the location.
Name	string	1..1	Gets or sets the location name.
OrganisationId	string	1..1	Gets or sets the LHSD identifier of the organisation.

**Complex Type: LocationClassification****Description**

LocationClassification DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	0..1	Gets or sets the Code for the healthcare service type.
DisplayName	string	0..1	Gets or sets the Display Name for the healthcare service type.
URI	string	0..1	Gets or sets the URI for the healthcare service type.

**Complex Type: Message****Description**


Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Code	string	0..1	Gets or sets the code associated with the message.
Data	anyType	0..1	Gets or sets any additional data associated with the message.
Description	string	1..1	Gets or sets a detailed description of the message content.
Level	<a href="#">MessageLevel</a>	1..1	Gets or sets the level associated with the message.
Messages	ArrayOfMessage	1..1	Gets or sets the set of messages associated with the message.
Origin	string	1..1	Gets or sets a string identifying the origin of the message, such as "HIPS" or "PCEHR".

**Complex Type: OrganisationChange****Description**

OrganisationChange DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChangeId	int	1..1	Gets or sets the An integer value that identifies this change in a sequence of changes.
ChangeType	<a href="#">ChangeType</a>	1..1	Gets or sets the Type of Change.
Channels	ArrayOfDocumentChannelPreference	0..1	Gets or sets the List of document channel preferences that are defined for the organisation.
Description	string	0..1	Gets or sets the Description of the organisation.
Identifiers	ArrayOfProviderOrganisationIdentifier	1..1	Gets or sets the List of external identifiers of the organisation. This does not include the HPI-O.
LegalName	string	0..1	Gets or sets the Legal name of the organisation.
Names	ArrayOfOrganisationName	0..1	Gets or sets the List of other names that the organisation is known as.
OrganisationId	string	1..1	Gets or sets the LHSD identifier of the organisation.

**Complex Type: OrganisationName****Description**

Organisation Name DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
KnownAsCode	string	0..1	Gets or sets the Code of the known as' reference item.
KnownAsDisplayName	string	0..1	Gets or sets the Display Name of the known as' reference item.
KnownAsURI	string	0..1	Gets or sets the URI of the known as' reference item.
Value	string	0..1	Gets or sets the organisation name itself.

**Complex Type: PersistedDTOBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.

**Referenced By**

Name	Type
<a href="#">Address</a>	Complex Type
<a href="#">ChangeList</a>	Complex Type
<a href="#">ChannelCarrier</a>	Complex Type
<a href="#">ChannelType</a>	Complex Type
<a href="#">DocumentChannelPreference</a>	Complex Type
<a href="#">ElectronicContact</a>	Complex Type
<a href="#">IndividualChange</a>	Complex Type
<a href="#">IndividualName</a>	Complex Type
<a href="#">IndividualNameAlias</a>	Complex Type
<a href="#">IndividualOccupation</a>	Complex Type
<a href="#">LinkChange</a>	Complex Type
<a href="#">LocationChange</a>	Complex Type
<a href="#">LocationClassification</a>	Complex Type
<a href="#">OrganisationChange</a>	Complex Type
<a href="#">OrganisationName</a>	Complex Type
<a href="#">ProviderIdentifier</a>	Complex Type
<a href="#">ProviderIdentifierStatus</a>	Complex Type
<a href="#">ProviderIdentifierType</a>	Complex Type
<a href="#">Sex</a>	Complex Type



**Complex Type: ProprietaryValue****Description**

ProprietaryValue DTO. This is an extension property (name and value pair) used to store jurisdiction-specific proprietary messaging information. An example is Queensland Health's STS addressing data.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Name	string	0..1	Gets or sets the name of the property.
Value	string	0..1	Gets or sets the value of the property.

**Complex Type: ProviderIdentifier****Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Referenced By**

Name	Type
<a href="#">ProviderIndividualIdentifier</a>	Complex Type
<a href="#">ProviderLinkIdentifier</a>	Complex Type
<a href="#">ProviderLocationIdentifier</a>	Complex Type
<a href="#">ProviderOrganisationIdentifier</a>	Complex Type

**Complex Type: ProviderIdentifierStatus****Description**

Provider Identifier Status DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.

**Complex Type: ProviderIdentifierType****Description**


Provider Identifier Type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.

**Complex Type: ProviderIndividualIdentifier****Description**

Provider Individual Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderLinkIdentifier****Description**

Provider Link Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderLocationIdentifier****Description**

Provider Location Identifier DTO. Examples are NHSD Site ID or STS Location ID.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderOrganisationIdentifier****Description**

Provider Organisation Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.



**Complex Type: ProviderUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Hpil	string	1..1	Gets or sets the health provider identifier - individual identifying the provider user.

**Complex Type: RequestBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
User	<a href="#">UserBase</a>	0..1	Gets or sets a value identifying the end user associated with the request. Can be an instance of the LocalUser, ProviderUser or ResponsibleUser class.

**Referenced By**

Name	Type
<a href="#">SynchroniseRequest</a>	Complex Type

**Complex Type: ResponseBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Messages	ArrayOfMessage	0..1	Gets or sets the set of messages associated with the response.
Status	<a href="#">ResponseStatus</a>	0..1	Gets or sets a value representing the status of the response.

**Referenced By**

Name	Type
<a href="#">SynchroniseResponse</a>	Complex Type

**Complex Type: ResponsibleUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Complex Type: ServiceOperationFault****Description**

Represents a general failure within the service operation

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Complex Type: Sex****Description**

Sex DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the DisplayName of the "Code" Reference Item.
DisplayName	string	1..1	Gets or sets the DisplayName of the "Gender" Reference Item.
URI	string	1..1	Gets or sets the DisplayName of the "URI" Reference Item.

**Complex Type: SynchroniseRequest****Description**

Request message for the Synchronise service operation.

**Derived By**

Extending [RequestBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
User	<a href="#">UserBase</a>	0..1	Gets or sets a value identifying the end user associated with the request. Can be an instance of the LocalUser, ProviderUser or ResponsibleUser class.
Timestamp	dateTime	0..1	Gets or sets a timestamp that can be used to override the date and time after which all changes will be processed. If not specified, all changes since the last synchronisation date and time stored for the subscription will be processed.

**Complex Type: SynchroniseResponse****Description**


Response message for the Synchronise service operation.

**Derived By**

Extending [ResponseBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Messages	ArrayOfMessage	0..1	Gets or sets the set of messages associated with the response.
Status	<a href="#">ResponseStatus</a>	0..1	Gets or sets a value representing the status of the response.



**Complex Type: UserBase****Description**

Abstract base class for identifying an end user.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Referenced By**

Name	Type
<a href="#">LocalUser</a>	Complex Type
<a href="#">ProviderUser</a>	Complex Type
<a href="#">ResponsibleUser</a>	Complex Type

## 2.2.3 Simple Types: DirectorySynchronisationService

### Simple Types

Name	Description
<a href="#">ChangeType</a>	Identifies whether a change is an addition, modification or deactivation of a logical entity.
<a href="#">MessageLevel</a>	Represents the level of a message returned by a service operation.
<a href="#">ResponseStatus</a>	Represents the outcome of a service operation.

**Simple Type: ChangeType****Description**

Identifies whether a change is an addition, modification or deactivation of a logical entity.

**Derived By**

Restricting string

**Enumeration**

Value	Description
Add	Creation of a new logical entity.
Modify	Modification of an existing logical entity, including the addition or removal of any child entity.
Deactivate	Deactivation of an existing logical entity.

**Simple Type: MessageLevel****Description**

Represents the level of a message returned by a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No level has been defined.
Information	The message contains information.
Warning	The message contains a warning.
Error	The message contains an error description.

**Simple Type: ResponseStatus**

**Description**

Represents the outcome of a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No status has been defined.
OK	The service operation was successful.
Warning	The service operation may have been successful, with associated warning messages.

## 2.3 MessageDeliveryService Web Service

### Description

Service contract to support the delivery and management of messages sent via SMD.

### See Also

- [Methods](#)
- [Complex Types](#)
- [Simple Types](#)

### 2.3.1 Methods: MessageDeliveryService

#### Methods

Name	Description
<a href="#">AbortMessage</a>	Aborts the delivery of a specified outbound message.
<a href="#">GetCdaMessage</a>	Retrieves the content of a specified CDA outbound message.
<a href="#">GetMessage</a>	Retrieves the content of a specified outbound message.
<a href="#">QueryMessages</a>	Lists outbound messages delivered via SMD matching specified criteria.
<a href="#">RetryMessage</a>	Retries the delivery of a specified outbound message that has failed to be delivered.
<a href="#">SendMessage</a>	Delivers a binary or CDA message via SMD.

**Method: AbortMessage****Description**

Aborts the delivery of a specified outbound message.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	



**Method: GetCdaMessage****Description**

Retrieves the content of a specified CDA outbound message.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

CDA Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">CdaMessageContent</a>	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: GetMessage****Description**

Retrieves the content of a specified outbound message.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">BinaryMessageContent</a>	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: QueryMessages****Description**

Lists outbound messages delivered via SMD matching specified criteria.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfOutboundSealedMessage	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: RetryMessage****Description**

Retries the delivery of a specified outbound message that has failed to be delivered.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	string	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: SendMessage****Description**

Delivers a binary or CDA message via SMD.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	string	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

## 2.3.2 Complex Types: MessageDeliveryService

### Complex Types

Name	Description
<a href="#">Attachment</a>	Attachment DTO.
<a href="#">BinaryMessageContent</a>	BinaryMessageContent DTO.
<a href="#">BinaryMessageContentPackage</a>	
<a href="#">CdaMessageContent</a>	CdaMessageContent DTO.
<a href="#">CdaMessageContentPackage</a>	
<a href="#">ConsumerIdentity</a>	ConsumerIdentity DTO.
<a href="#">DateTimeRange</a>	DateTimeRange DTO.
<a href="#">Delegate</a>	Delegate DTO.
<a href="#">DocumentType</a>	Document type DTO.
<a href="#">FaultBase</a>	
<a href="#">IndividualName</a>	Individual Name DTO.
<a href="#">InteractionRecord</a>	InteractionRecord DTO.
<a href="#">Intermediary</a>	Intermediary DTO.
<a href="#">InvalidRequestFault</a>	Represents a failure within the conditions defined to validate the request to the service operation.
<a href="#">LocalUser</a>	
<a href="#">Message</a>	Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.
<a href="#">MessageAddressee</a>	MessageAddressee DTO.
<a href="#">MessageContentPackageBase</a>	MessageContentPackageBase DTO.
<a href="#">OtherTransportMetadata</a>	OtherTransportMetadata DTO.
<a href="#">OutboundSealedMessage</a>	OutboundSealedMessage DTO.
<a href="#">PayloadPackaging</a>	Payload packaging DTO.
<a href="#">PayloadScheme</a>	Payload scheme DTO.
<a href="#">PersistedDTOBase</a>	
<a href="#">ProviderIdentifier</a>	
<a href="#">ProviderIdentifierStatus</a>	Provider Identifier Status DTO.
<a href="#">ProviderIdentifierType</a>	Provider Identifier Type DTO.
<a href="#">ProviderIndividualIdentifier</a>	Provider Individual Identifier DTO.
<a href="#">ProviderIndividualIdentity</a>	ProviderIndividualIdentity DTO.
<a href="#">ProviderOrganisationIdentifier</a>	Provider Organisation Identifier DTO.
<a href="#">ProviderOrganisationIdentity</a>	ProviderOrganisationIdentity DTO.
<a href="#">ProviderUser</a>	
<a href="#">ResponsibleUser</a>	
<a href="#">SealedMessage</a>	
<a href="#">ServiceInterface</a>	ServiceInterface DTO.
<a href="#">ServiceOperationFault</a>	Represents a general failure within the service operation
<a href="#">TransportResponse</a>	TransportResponse DTO.
<a href="#">UserBase</a>	Abstract base class for identifying an end user.



**Complex Type: Attachment****Description**

Attachment DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Name	string	1..1	Gets or sets the name of the attachment.
Payload	base64Binary	1..1	Gets or sets the raw binary content of the attachment.



**Complex Type: BinaryMessageContent****Description**

BinaryMessageContent DTO.

**Derived By**

Restricting anyType


**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Payload	base64Binary	1..1	Gets or sets the raw binary content of the message.

**Complex Type: BinaryMessageContentPackage****Derived By**Extending [MessageContentPackageBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Content	<a href="#">BinaryMessageContent</a>	1..1	Gets or sets the content of the message.
PayloadScheme	string	1..1	Gets or sets the qualified identifier of the payload scheme of the message.

## Complex Type: CdaMessageContent

### Description

CdaMessageContent DTO.

### Derived By

Restricting anyType


### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Attachments	ArrayOfAttachment	0..1	Gets or sets the set of attachments associated with the message.
Document	base64Binary	0..1	Gets or sets the raw binary content of the CDA document associated with the message.

**Complex Type: CdaMessageContentPackage****Derived By**Extending [MessageContentPackageBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Content	<a href="#">CdaMessageContent</a>	1..1	Gets or sets the content of the message.
HospitalCode	string	1..1	Gets or sets the hospital code.
HospitalCodeSystem	string	1..1	Gets or sets the hospital code system used to identify the hospital.

**Complex Type: ConsumerIdentity****Description**

ConsumerIdentity DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
DateOfBirth	dateTime	1..1	Gets or sets the date of birth of the person.
FamilyName	string	1..1	Gets or sets that part of a name a person usually has in common with some other members of his/her family, as distinguished from his/her given names.
GivenNames	string	1..1	Gets or sets the person's identifying names within the family group or by which the person is uniquely socially identified.
Ihi	string	1..1	Gets or sets a 16 digit unique reference number used to identify recipients of Australian healthcare services.
Sex	string	1..1	Gets or sets a code (M/F/I/N) from AS 5017-2006 Health Care Client Identifier Sex that identifies whether the person is Male, Female, Intersex or indeterminate, or Not stated/inadequately described.

**Complex Type: DateTimeRange****Description**

DateTimeRange DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
End	dateTime	1..1	Gets or sets the end of the range.
Start	dateTime	1..1	Gets or sets the start of the range.

**Complex Type: Delegate****Description**

Delegate DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the delegate.
Intermediary	<a href="#">Intermediary</a>	1..1	Gets or sets the intermediary associated with the delegate.
IsActive	boolean	1..1	Gets or sets a value indicating whether the delegate is active (available for use).
Name	string	1..1	Gets or sets the name of the delegate.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the delegate, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the delegate.

**Complex Type: DocumentType****Description**

Document type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code that identifies this type of document.
Description	string	1..1	Gets or sets the name of the document type.



**Complex Type: FaultBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Referenced By**

Name	Type
<a href="#">InvalidRequestFault</a>	Complex Type
<a href="#">ServiceOperationFault</a>	Complex Type

**Complex Type: IndividualName****Description**

Individual Name DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
FamilyName	string	1..1	Gets or sets the family name of the individual.
GivenName	string	1..1	Gets or sets the given names of the individual, separated by spaces.
MiddleName	string	1..1	Gets or sets the middle name of the individual, separated by spaces.
Title	string	1..1	Gets or sets the titles of the individual, separated by spaces.

**Complex Type: InteractionRecord****Description**

InteractionRecord DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Delegate	<a href="#">Delegate</a>	1..1	Gets or sets the delegate associated with the interaction record.
OrganisationId	string	1..1	Gets or sets the primary identifier of the target organisation.
PayloadEncryptionCertificate	string	1..1	Gets or sets the payload encryption certificate in PEM format.
PayloadScheme	<a href="#">PayloadScheme</a>	1..1	Gets or sets the payload scheme associated with the interaction record.
ServiceEndpointUri	string	1..1	Gets or sets the service endpoint URI associated with the interaction record.
ServiceInterface	<a href="#">ServiceInterface</a>	1..1	Gets or sets the service interface associated with the interaction record.

**Complex Type: Intermediary****Description**

Intermediary DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Name	string	1..1	Gets or sets the name of the intermediary.
ServiceEndpointUri	string	1..1	Gets or sets the service endpoint URI of the intermediary.

**Complex Type: InvalidRequestFault****Description**

Represents a failure within the conditions defined to validate the request to the service operation.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.
Messages	ArrayOfMessage	0..1	Gets or sets the set of messages associated with the fault.

**Complex Type: LocalUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
Domain	string	1..1	Gets or sets the name of the directory domain of the user within the local directory.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Login	string	1..1	Gets or sets the name of the login (account) of the user within the local directory.

**Complex Type: Message****Description**


Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Code	string	0..1	Gets or sets the code associated with the message.
Data	anyType	0..1	Gets or sets any additional data associated with the message.
Description	string	1..1	Gets or sets a detailed description of the message content.
Level	<a href="#">MessageLevel</a>	1..1	Gets or sets the level associated with the message.
Messages	ArrayOfMessage	1..1	Gets or sets the set of messages associated with the message.
Origin	string	1..1	Gets or sets a string identifying the origin of the message, such as "HIPS" or "PCEHR".

**Complex Type: MessageAddressee****Description**

MessageAddressee DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Individual	<a href="#">ProviderIndividualIdentity</a>	0..1	Gets or sets the individual.
Organisation	<a href="#">ProviderOrganisationIdentity</a>	1..1	Gets or sets the organisation.



**Complex Type: MessageContentPackageBase**

**Description**

MessageContentPackageBase DTO.

**Derived By**

Restricting anyType

**Referenced By**

Name	Type
<a href="#">BinaryMessageContentPackage</a>	Complex Type
<a href="#">CdaMessageContentPackage</a>	Complex Type

**Complex Type: OtherTransportMetadata****Description**

OtherTransportMetadata DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
MetadataType	anyURI	1..1	Gets or sets a value representing a type identifier defined by a standards body or similar industry body.
MetadataValue	anyType	1..1	Gets or sets an XML document instance that conforms to the specified type.

**Complex Type: OutboundSealedMessage****Description**

OutboundSealedMessage DTO.

**Derived By**

Extending [SealedMessage](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
InvocationIdentifier	string	1..1	Gets or sets the unique invocation identifier of the message.
MessageTimestamp	dateTime	1..1	Gets or sets the timestamp of the message.
OtherTransportMetadata	ArrayOfOtherTransportMetadata	1..1	Gets or sets the set of additional metadata to realise transport functions or qualities of service that are not defined in the SMD specification.
PayloadScheme	<a href="#">PayloadScheme</a>	0..1	Gets or sets the payload scheme associated with the the message.
Receiver	<a href="#">MessageAddressee</a>	1..1	Gets or sets the recipient of the message.
Sender	<a href="#">MessageAddressee</a>	1..1	Gets or sets the sender of the message.
SubjectOfCare	<a href="#">ConsumerIdentity</a>	0..1	Gets or sets the consumer whose health care is the subject of the message.
TransportResponses	ArrayOfTransportResponse	1..1	Gets or sets the set of transport responses sent or received for the message.
InteractionRecord	<a href="#">InteractionRecord</a>	1..1	Gets or sets the interaction record used to deliver the message.
MessageStatus	<a href="#">OutboundMessageStatus</a>	1..1	Gets or sets the status of message delivery.

**Complex Type: PayloadPackaging****Description**

Payload packaging DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Description	string	1..1	Gets or sets a descriptive name for the payload packaging mechanism.

**Complex Type: PayloadScheme****Description**

Payload scheme DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the payload scheme.
DocumentType	<a href="#">DocumentType</a>	1..1	Gets or sets the document type associated with the payload scheme.
IsActive	boolean	1..1	Gets or sets a value indicating whether the payload scheme is active (available for use).
Name	string	1..1	Gets or sets the name of the payload scheme.
PayloadPackaging	<a href="#">PayloadPackaging</a>	1..1	Gets or sets the payload packaging associated with the payload scheme.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the payload scheme, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the payload scheme.

**Complex Type: PersistedDTOBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.

**Referenced By**

Name	Type
<a href="#">Delegate</a>	Complex Type
<a href="#">DocumentType</a>	Complex Type
<a href="#">IndividualName</a>	Complex Type
<a href="#">InteractionRecord</a>	Complex Type
<a href="#">Intermediary</a>	Complex Type
<a href="#">OtherTransportMetadata</a>	Complex Type
<a href="#">PayloadPackaging</a>	Complex Type
<a href="#">PayloadScheme</a>	Complex Type
<a href="#">ProviderIdentifier</a>	Complex Type
<a href="#">ProviderIdentifierStatus</a>	Complex Type
<a href="#">ProviderIdentifierType</a>	Complex Type
<a href="#">SealedMessage</a>	Complex Type
<a href="#">ServiceInterface</a>	Complex Type
<a href="#">TransportResponse</a>	Complex Type

**Complex Type: ProviderIdentifier****Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Referenced By**

Name	Type
<a href="#">ProviderIndividualIdentifier</a>	Complex Type
<a href="#">ProviderOrganisationIdentifier</a>	Complex Type

**Complex Type: ProviderIdentifierStatus****Description**

Provider Identifier Status DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.



**Complex Type: ProviderIdentifierType****Description**

Provider Identifier Type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.

**Complex Type: ProviderIndividualIdentifier****Description**


Provider Individual Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderIndividualIdentity****Description**

ProviderIndividualIdentity DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Identifier	<a href="#">ProviderIndividualIdentifier</a>	1..1	Gets or sets a provider identifier used to identify the individual.
Name	<a href="#">IndividualName</a>	0..1	Gets or sets the name of the individual.

**Complex Type: ProviderOrganisationIdentifier****Description**

Provider Organisation Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderOrganisationIdentity****Description**

ProviderOrganisationIdentity DTO.

**Derived By**

Restricting anyType


**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Identifier	<a href="#">ProviderOrganisationIdentifier</a>	1..1	Gets or sets a provider identifier used to identify the organisation.
OrganisationName	string	0..1	Gets or sets the name of the organisation.

**Complex Type: ProviderUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Hpil	string	1..1	Gets or sets the health provider identifier - individual identifying the provider user.

**Complex Type: ResponsibleUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Complex Type: SealedMessage****Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
InvocationIdentifier	string	1..1	Gets or sets the unique invocation identifier of the message.
MessageTimestamp	dateTime	1..1	Gets or sets the timestamp of the message.
OtherTransportMetadata	ArrayOfOtherTransportMetadata	1..1	Gets or sets the set of additional metadata to realise transport functions or qualities of service that are not defined in the SMD specification.
PayloadScheme	<a href="#">PayloadScheme</a>	0..1	Gets or sets the payload scheme associated with the the message.
Receiver	<a href="#">MessageAddressee</a>	1..1	Gets or sets the recipient of the message.
Sender	<a href="#">MessageAddressee</a>	1..1	Gets or sets the sender of the message.
SubjectOfCare	<a href="#">ConsumerIdentity</a>	0..1	Gets or sets the consumer whose health care is the subject of the message.
TransportResponses	ArrayOfTransportResponse	1..1	Gets or sets the set of transport responses sent or received for the message.

**Referenced By**

Name	Type
<a href="#">OutboundSealedMessage</a>	Complex Type



**Complex Type: ServiceInterface****Description**

ServiceInterface DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the service interface.
Name	string	1..1	Gets or sets the name of the service interface.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the service interface, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the service interface.

**Complex Type: ServiceOperationFault****Description**


Represents a general failure within the service operation

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Complex Type: TransportResponse****Description**

TransportResponse DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
DeliveryEndpoint	string	1..1	Gets or sets the URL of the Transport Response Delivery endpoint to which the response is delivered.
DigestValue	string	1..1	Gets or sets the digest from the signature block of the signed container in the received message.
Final	boolean	1..1	Gets or sets a value indicating whether the transport response is final.
Message	string	1..1	Gets or sets the message associated with the transport response.
OtherTransportMetadata	ArrayOfOtherTransportMetadata	1..1	Gets or sets the set of additional metadata to realise transport functions or qualities of service that are not defined in the SMD specification.
ResponseClass	<a href="#">TransportResponseClass</a>	1..1	Gets or sets the class of the transport response.
ResponseCode	string	1..1	Gets or sets a code associated with the transport response.
ResponseIdentifier	string	1..1	Gets or sets the unique identifier of the transport response.
ResponseStatus	<a href="#">TransportResponseStatus</a>	1..1	Gets or sets the status of the transport response.
ResponseTime	dateTime	1..1	Gets or sets the timestamp of the transport response.

**Complex Type: UserBase****Description**

Abstract base class for identifying an end user.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Referenced By**

Name	Type
<a href="#">LocalUser</a>	Complex Type
<a href="#">ProviderUser</a>	Complex Type
<a href="#">ResponsibleUser</a>	Complex Type

### 2.3.3 Simple Types: MessageDeliveryService

#### Simple Types

Name	Description
<a href="#">MessageLevel</a>	Represents the level of a message returned by a service operation.
<a href="#">OutboundMessageStatus</a>	Status of outbound message delivery.
<a href="#">ResponseStatus</a>	Represents the outcome of a service operation.
<a href="#">TransportResponseClass</a>	Class for a transport response.
<a href="#">TransportResponseStatus</a>	Status for a transport response.

**Simple Type: MessageLevel****Description**

Represents the level of a message returned by a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No level has been defined.
Information	The message contains information.
Warning	The message contains a warning.
Error	The message contains an error description.

**Simple Type: OutboundMessageStatus****Description**

Status of outbound message delivery.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No message status has been defined.
Undelivered	The outbound message is awaiting delivery.
Delivered	The outbound message has been delivered and is awaiting acknowledgement.
Responded	An acknowledgement for the outbound message has been received.
Acknowledged	The outbound message delivery has been acknowledged.
Failed	The outbound message delivery processing has failed.
Expired	The attempt to deliver the outbound message has exceeded its expiry period.
Removed	The outbound message has been removed.
Retried	The outbound message has been retried.
UndeliveredExpired	The outbound message is Undelivered - Expired.
ExceedRetryCount	The outbound message is Undelivered - ExceedRetryCount.

**Simple Type: ResponseStatus****Description**

Represents the outcome of a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No status has been defined.
OK	The service operation was successful.
Warning	The service operation may have been successful, with associated warning messages.



**Simple Type: TransportResponseClass****Description**

Class for a transport response.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No transport response class has been defined.
Success	The transport response class is success.
Information	The transport response class is information.
Warning	The transport response class is warning.
Error	The transport response class is error.

**Simple Type: TransportResponseStatus****Description**

Status for a transport response.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No response status has been defined.
Undelivered	The transport response for the inbound message is yet to be delivered.
Delivered	The transport response for the inbound message has been delivered.
Expired	Delivery of the transport response for the inbound message has expired.
Aborted	Operator has aborted the delivery of the transport response.
Received	A transport response has been received for the outbound message.

## 2.4 MessagePublishingService Web Service

### Description

Provides access to the HIPS "PublishMessage" resource.

### See Also

- [Methods](#)
- [Complex Types](#)
- [Simple Types](#)

## 2.4.1 Methods: MessagePublishingService

### Methods

Name	Description
<a href="#">PublishMessage</a>	Publishes the message given its metadata and its content

**Method: PublishMessage**

**Description**

Publishes the message given its metadata and its content

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

## 2.4.2 Complex Types: MessagePublishingService

### Complex Types

Name	Description
<a href="#">BinaryMessageContent</a>	BinaryMessageContent DTO.
<a href="#">ConsumerIdentity</a>	ConsumerIdentity DTO.
<a href="#">DocumentType</a>	Document type DTO.
<a href="#">IndividualName</a>	Individual Name DTO.
<a href="#">MessageAddressee</a>	MessageAddressee DTO.
<a href="#">OtherTransportMetadata</a>	OtherTransportMetadata DTO.
<a href="#">PayloadPackaging</a>	Payload packaging DTO.
<a href="#">PayloadScheme</a>	Payload scheme DTO.
<a href="#">PersistedDTOBase</a>	
<a href="#">ProviderIdentifier</a>	
<a href="#">ProviderIdentifierStatus</a>	Provider Identifier Status DTO.
<a href="#">ProviderIdentifierType</a>	Provider Identifier Type DTO.
<a href="#">ProviderIndividualIdentifier</a>	Provider Individual Identifier DTO.
<a href="#">ProviderIndividualIdentity</a>	ProviderIndividualIdentity DTO.
<a href="#">ProviderOrganisationIdentifier</a>	Provider Organisation Identifier DTO.
<a href="#">ProviderOrganisationIdentity</a>	ProviderOrganisationIdentity DTO.
<a href="#">SealedMessage</a>	SealedMessage DTO.
<a href="#">TransportResponse</a>	TransportResponse DTO.

## Complex Type: BinaryMessageContent

### Description

BinaryMessageContent DTO.

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Payload	base64Binary	1..1	Gets or sets the raw binary content of the message.

**Complex Type: ConsumerIdentity****Description**

ConsumerIdentity DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
DateOfBirth	dateTime	1..1	Gets or sets the date of birth of the person.
FamilyName	string	1..1	Gets or sets that part of a name a person usually has in common with some other members of his/her family, as distinguished from his/her given names.
GivenNames	string	1..1	Gets or sets the person's identifying names within the family group or by which the person is uniquely socially identified.
Ihi	string	1..1	Gets or sets a 16 digit unique reference number used to identify recipients of Australian healthcare services.
Sex	string	1..1	Gets or sets a code (M/F/I/N) from AS 5017-2006 Health Care Client Identifier Sex that identifies whether the person is Male, Female, Intersex or indeterminate, or Not stated/inadequately described.



**Complex Type: DocumentType****Description**

Document type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code that identifies this type of document.
Description	string	1..1	Gets or sets the name of the document type.

**Complex Type: IndividualName****Description**


Individual Name DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
FamilyName	string	1..1	Gets or sets the family name of the individual.
GivenName	string	1..1	Gets or sets the given names of the individual, separated by spaces.
MiddleName	string	1..1	Gets or sets the middle name of the individual, separated by spaces.
Title	string	1..1	Gets or sets the titles of the individual, separated by spaces.

**Complex Type: MessageAddressee****Description**

MessageAddressee DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Individual	<a href="#">ProviderIndividualIdentity</a>	0..1	Gets or sets the individual.
Organisation	<a href="#">ProviderOrganisationIdentity</a>	1..1	Gets or sets the organisation.

**Complex Type: OtherTransportMetadata****Description**


OtherTransportMetadata DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
MetadataType	anyURI	1..1	Gets or sets a value representing a type identifier defined by a standards body or similar industry body.
MetadataValue	anyType	1..1	Gets or sets an XML document instance that conforms to the specified type.

**Complex Type: PayloadPackaging****Description**

Payload packaging DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Description	string	1..1	Gets or sets a descriptive name for the payload packaging mechanism.

**Complex Type: PayloadScheme****Description**

Payload scheme DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the payload scheme.
DocumentType	<a href="#">DocumentType</a>	1..1	Gets or sets the document type associated with the payload scheme.
IsActive	boolean	1..1	Gets or sets a value indicating whether the payload scheme is active (available for use).
Name	string	1..1	Gets or sets the name of the payload scheme.
PayloadPackaging	<a href="#">PayloadPackaging</a>	1..1	Gets or sets the payload packaging associated with the payload scheme.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the payload scheme, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the payload scheme.

**Complex Type: PersistedDTOBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.

**Referenced By**

Name	Type
<a href="#">DocumentType</a>	Complex Type
<a href="#">IndividualName</a>	Complex Type
<a href="#">OtherTransportMetadata</a>	Complex Type
<a href="#">PayloadPackaging</a>	Complex Type
<a href="#">PayloadScheme</a>	Complex Type
<a href="#">ProviderIdentifier</a>	Complex Type
<a href="#">ProviderIdentifierStatus</a>	Complex Type
<a href="#">ProviderIdentifierType</a>	Complex Type
<a href="#">SealedMessage</a>	Complex Type
<a href="#">TransportResponse</a>	Complex Type

**Complex Type: ProviderIdentifier****Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Referenced By**

Name	Type
<a href="#">ProviderIndividualIdentifier</a>	Complex Type
<a href="#">ProviderOrganisationIdentifier</a>	Complex Type



**Complex Type: ProviderIdentifierStatus****Description**

Provider Identifier Status DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.

**Complex Type: ProviderIdentifierType****Description**

Provider Identifier Type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.

**Complex Type: ProviderIndividualIdentifier****Description**

Provider Individual Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderIndividualIdentity****Description**

ProviderIndividualIdentity DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Identifier	<a href="#">ProviderIndividualIdentifier</a>	1..1	Gets or sets a provider identifier used to identify the individual.
Name	<a href="#">IndividualName</a>	0..1	Gets or sets the name of the individual.

**Complex Type: ProviderOrganisationIdentifier****Description**

Provider Organisation Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderOrganisationIdentity****Description**

ProviderOrganisationIdentity DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Identifier	<a href="#">ProviderOrganisationIdentifier</a>	1..1	Gets or sets a provider identifier used to identify the organisation.
OrganisationName	string	0..1	Gets or sets the name of the organisation.

**Complex Type: SealedMessage****Description**

SealedMessage DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
InvocationIdentifier	string	1..1	Gets or sets the unique invocation identifier of the message.
MessageTimestamp	dateTime	1..1	Gets or sets the timestamp of the message.
OtherTransportMetadata	ArrayOfOtherTransportMetadata	1..1	Gets or sets the set of additional metadata to realise transport functions or qualities of service that are not defined in the SMD specification.
PayloadScheme	<a href="#">PayloadScheme</a>	0..1	Gets or sets the payload scheme associated with the the message.
Receiver	<a href="#">MessageAddressee</a>	1..1	Gets or sets the recipient of the message.
Sender	<a href="#">MessageAddressee</a>	1..1	Gets or sets the sender of the message.
SubjectOfCare	<a href="#">ConsumerIdentity</a>	0..1	Gets or sets the consumer whose health care is the subject of the message.
TransportResponses	ArrayOfTransportResponse	1..1	Gets or sets the set of transport responses sent or received for the message.

**Complex Type: TransportResponse****Description**

TransportResponse DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
DeliveryEndpoint	string	1..1	Gets or sets the URL of the Transport Response Delivery endpoint to which the response is delivered.
DigestValue	string	1..1	Gets or sets the digest from the signature block of the signed container in the received message.
Final	boolean	1..1	Gets or sets a value indicating whether the transport response is final.
Message	string	1..1	Gets or sets the message associated with the transport response.
OtherTransportMetadata	ArrayOfOtherTransportMetadata	1..1	Gets or sets the set of additional metadata to realise transport functions or qualities of service that are not defined in the SMD specification.
ResponseClass	<a href="#">TransportResponseClass</a>	1..1	Gets or sets the class of the transport response.
ResponseCode	string	1..1	Gets or sets a code associated with the transport response.
ResponseIdentifier	string	1..1	Gets or sets the unique identifier of the transport response.
ResponseStatus	<a href="#">TransportResponseStatus</a>	1..1	Gets or sets the status of the transport response.
ResponseTime	dateTime	1..1	Gets or sets the timestamp of the transport response.



### 2.4.3 Simple Types: MessagePublishingService

#### Simple Types

Name	Description
<a href="#">TransportResponseClass</a>	Class for a transport response.
<a href="#">TransportResponseStatus</a>	Status for a transport response.

**Simple Type: TransportResponseClass****Description**

Class for a transport response.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No transport response class has been defined.
Success	The transport response class is success.
Information	The transport response class is information.
Warning	The transport response class is warning.
Error	The transport response class is error.

**Simple Type: TransportResponseStatus****Description**

Status for a transport response.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No response status has been defined.
Undelivered	The transport response for the inbound message is yet to be delivered.
Delivered	The transport response for the inbound message has been delivered.
Expired	Delivery of the transport response for the inbound message has expired.
Aborted	Operator has aborted the delivery of the transport response.
Received	A transport response has been received for the outbound message.

## 2.5 MessageReceiptService Web Service

### Description

Service contract to support the receipt and management of messages sent via SMD.

### See Also

- [Methods](#)
- [Complex Types](#)
- [Simple Types](#)

## 2.5.1 Methods: MessageReceiptService

### Methods

Name	Description
<a href="#">AbortResponse</a>	Aborts the delivery of the transport response for a specified inbound message.
<a href="#">GetCdaMessage</a>	Retrieves the content of a specified inbound message.
<a href="#">GetMessage</a>	Retrieves the content of a specified inbound message.
<a href="#">QueryMessages</a>	Lists inbound messages received via SMD matching specified criteria.
<a href="#">RemoveMessage</a>	Removes a specified inbound message.
<a href="#">RetryResponse</a>	Retries the delivery of the transport response for a specified inbound message that has failed to be delivered.

**Method: AbortResponse****Description**

Aborts the delivery of the transport response for a specified inbound message.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: GetCdaMessage****Description**

Retrieves the content of a specified inbound message.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">CdaMessageContent</a>	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: GetMessage****Description**

Retrieves the content of a specified inbound message.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">BinaryMessageContent</a>	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	



**Method: QueryMessages****Description**

Lists inbound messages received via SMD matching specified criteria.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfInboundSealedMessage	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: RemoveMessage****Description**

Removes a specified inbound message.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: RetryResponse****Description**

Retries the delivery of the transport response for a specified inbound message that has failed to be delivered.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

## 2.5.2 Complex Types: MessageReceiptService

### Complex Types

Name	Description
<a href="#">Attachment</a>	Attachment DTO.
<a href="#">BinaryMessageContent</a>	BinaryMessageContent DTO.
<a href="#">CdaMessageContent</a>	CdaMessageContent DTO.
<a href="#">ConsumerIdentity</a>	ConsumerIdentity DTO.
<a href="#">DateTimeRange</a>	DateTimeRange DTO.
<a href="#">DocumentType</a>	Document type DTO.
<a href="#">FaultBase</a>	
<a href="#">InboundSealedMessage</a>	InboundSealedMessage DTO.
<a href="#">IndividualName</a>	Individual Name DTO.
<a href="#">InvalidRequestFault</a>	Represents a failure within the conditions defined to validate the request to the service operation.
<a href="#">LocalUser</a>	
<a href="#">Message</a>	Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.
<a href="#">MessageAddressee</a>	MessageAddressee DTO.
<a href="#">OtherTransportMetadata</a>	OtherTransportMetadata DTO.
<a href="#">PayloadPackaging</a>	Payload packaging DTO.
<a href="#">PayloadScheme</a>	Payload scheme DTO.
<a href="#">PersistedDTOMBase</a>	
<a href="#">ProviderIdentifier</a>	
<a href="#">ProviderIdentifierStatus</a>	Provider Identifier Status DTO.
<a href="#">ProviderIdentifierType</a>	Provider Identifier Type DTO.
<a href="#">ProviderIndividualIdentifier</a>	Provider Individual Identifier DTO.
<a href="#">ProviderIndividualIdentity</a>	ProviderIndividualIdentity DTO.
<a href="#">ProviderOrganisationIdentifier</a>	Provider Organisation Identifier DTO.
<a href="#">ProviderOrganisationIdentity</a>	ProviderOrganisationIdentity DTO.
<a href="#">ProviderUser</a>	
<a href="#">ResponsibleUser</a>	
<a href="#">SealedMessage</a>	
<a href="#">ServiceOperationFault</a>	Represents a general failure within the service operation
<a href="#">TransportResponse</a>	TransportResponse DTO.
<a href="#">UserBase</a>	Abstract base class for identifying an end user.

**Complex Type: Attachment****Description**

Attachment DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Name	string	1..1	Gets or sets the name of the attachment.
Payload	base64Binary	1..1	Gets or sets the raw binary content of the attachment.

**Complex Type: BinaryMessageContent****Description**


BinaryMessageContent DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Payload	base64Binary	1..1	Gets or sets the raw binary content of the message.

**Complex Type: CdaMessageContent****Description**

CdaMessageContent DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Attachments	ArrayOfAttachment	0..1	Gets or sets the set of attachments associated with the message.
Document	base64Binary	0..1	Gets or sets the raw binary content of the CDA document associated with the message.

**Complex Type: ConsumerIdentity****Description**

ConsumerIdentity DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
DateOfBirth	dateTime	1..1	Gets or sets the date of birth of the person.
FamilyName	string	1..1	Gets or sets that part of a name a person usually has in common with some other members of his/her family, as distinguished from his/her given names.
GivenNames	string	1..1	Gets or sets the person's identifying names within the family group or by which the person is uniquely socially identified.
Ihi	string	1..1	Gets or sets a 16 digit unique reference number used to identify recipients of Australian healthcare services.
Sex	string	1..1	Gets or sets a code (M/F/I/N) from AS 5017-2006 Health Care Client Identifier Sex that identifies whether the person is Male, Female, Intersex or indeterminate, or Not stated/inadequately described.



**Complex Type: DateTimeRange****Description**

DateTimeRange DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
End	dateTime	1..1	Gets or sets the end of the range.
Start	dateTime	1..1	Gets or sets the start of the range.

**Complex Type: DocumentType****Description**

Document type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code that identifies this type of document.
Description	string	1..1	Gets or sets the name of the document type.

**Complex Type: FaultBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Referenced By**

Name	Type
<a href="#">InvalidRequestFault</a>	Complex Type
<a href="#">ServiceOperationFault</a>	Complex Type

**Complex Type: InboundSealedMessage****Description**

InboundSealedMessage DTO.

**Derived By**

Extending [SealedMessage](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
InvocationIdentifier	string	1..1	Gets or sets the unique invocation identifier of the message.
MessageTimestamp	dateTime	1..1	Gets or sets the timestamp of the message.
OtherTransportMetadata	ArrayOfOtherTransportMetadata	1..1	Gets or sets the set of additional metadata to realise transport functions or qualities of service that are not defined in the SMD specification.
PayloadScheme	<a href="#">PayloadScheme</a>	0..1	Gets or sets the payload scheme associated with the the message.
Receiver	<a href="#">MessageAddressee</a>	1..1	Gets or sets the recipient of the message.
Sender	<a href="#">MessageAddressee</a>	1..1	Gets or sets the sender of the message.
SubjectOfCare	<a href="#">ConsumerIdentity</a>	0..1	Gets or sets the consumer whose health care is the subject of the message.
TransportResponses	ArrayOfTransportResponse	1..1	Gets or sets the set of transport responses sent or received for the message.
MessageStatus	<a href="#">InboundMessageStatus</a>	1..1	Gets or sets the status of message receipt.

**Complex Type: IndividualName****Description**

Individual Name DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
FamilyName	string	1..1	Gets or sets the family name of the individual.
GivenName	string	1..1	Gets or sets the given names of the individual, separated by spaces.
MiddleName	string	1..1	Gets or sets the middle name of the individual, separated by spaces.
Title	string	1..1	Gets or sets the titles of the individual, separated by spaces.

**Complex Type: InvalidRequestFault****Description**


Represents a failure within the conditions defined to validate the request to the service operation.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.
Messages	ArrayOfMessage	0..1	Gets or sets the set of messages associated with the fault.

**Complex Type: LocalUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
Domain	string	1..1	Gets or sets the name of the directory domain of the user within the local directory.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Login	string	1..1	Gets or sets the name of the login (account) of the user within the local directory.

**Complex Type: Message****Description**

Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Code	string	0..1	Gets or sets the code associated with the message.
Data	anyType	0..1	Gets or sets any additional data associated with the message.
Description	string	1..1	Gets or sets a detailed description of the message content.
Level	<a href="#">MessageLevel</a>	1..1	Gets or sets the level associated with the message.
Messages	ArrayOfMessage	1..1	Gets or sets the set of messages associated with the message.
Origin	string	1..1	Gets or sets a string identifying the origin of the message, such as "HIPS" or "PCEHR".



**Complex Type: MessageAddressee****Description**

MessageAddressee DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Individual	<a href="#">ProviderIndividualIdentity</a>	0..1	Gets or sets the individual.
Organisation	<a href="#">ProviderOrganisationIdentity</a>	1..1	Gets or sets the organisation.

**Complex Type: OtherTransportMetadata****Description**


OtherTransportMetadata DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
MetadataType	anyURI	1..1	Gets or sets a value representing a type identifier defined by a standards body or similar industry body.
MetadataValue	anyType	1..1	Gets or sets an XML document instance that conforms to the specified type.

**Complex Type: PayloadPackaging****Description**

Payload packaging DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Description	string	1..1	Gets or sets a descriptive name for the payload packaging mechanism.

**Complex Type: PayloadScheme****Description**

Payload scheme DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:sequence</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the payload scheme.
DocumentType	<a href="#">DocumentType</a>	1..1	Gets or sets the document type associated with the payload scheme.
IsActive	boolean	1..1	Gets or sets a value indicating whether the payload scheme is active (available for use).
Name	string	1..1	Gets or sets the name of the payload scheme.
PayloadPackaging	<a href="#">PayloadPackaging</a>	1..1	Gets or sets the payload packaging associated with the payload scheme.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the payload scheme, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the payload scheme.

**Complex Type: PersistedDTOBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.

**Referenced By**

Name	Type
<a href="#">DocumentType</a>	Complex Type
<a href="#">IndividualName</a>	Complex Type
<a href="#">OtherTransportMetadata</a>	Complex Type
<a href="#">PayloadPackaging</a>	Complex Type
<a href="#">PayloadScheme</a>	Complex Type
<a href="#">ProviderIdentifier</a>	Complex Type
<a href="#">ProviderIdentifierStatus</a>	Complex Type
<a href="#">ProviderIdentifierType</a>	Complex Type
<a href="#">SealedMessage</a>	Complex Type
<a href="#">TransportResponse</a>	Complex Type

**Complex Type: ProviderIdentifier****Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:SEQUENCE</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Referenced By**

Name	Type
<a href="#">ProviderIndividualIdentifier</a>	Complex Type
<a href="#">ProviderOrganisationIdentifier</a>	Complex Type

**Complex Type: ProviderIdentifierStatus****Description**

Provider Identifier Status DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.

**Complex Type: ProviderIdentifierType****Description**

Provider Identifier Type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.



**Complex Type: ProviderIndividualIdentifier****Description**

Provider Individual Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderIndividualIdentity****Description**

ProviderIndividualIdentity DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Identifier	<a href="#">ProviderIndividualIdentifier</a>	1..1	Gets or sets a provider identifier used to identify the individual.
Name	<a href="#">IndividualName</a>	0..1	Gets or sets the name of the individual.

**Complex Type: ProviderOrganisationIdentifier****Description**

Provider Organisation Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderOrganisationIdentity****Description**

ProviderOrganisationIdentity DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Identifier	<a href="#">ProviderOrganisationIdentifier</a>	1..1	Gets or sets a provider identifier used to identify the organisation.
OrganisationName	string	0..1	Gets or sets the name of the organisation.

**Complex Type: ProviderUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Hpil	string	1..1	Gets or sets the health provider identifier - individual identifying the provider user.

**Complex Type: ResponsibleUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Complex Type: SealedMessage****Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
InvocationIdentifier	string	1..1	Gets or sets the unique invocation identifier of the message.
MessageTimestamp	dateTime	1..1	Gets or sets the timestamp of the message.
OtherTransportMetadata	ArrayOfOtherTransportMetadata	1..1	Gets or sets the set of additional metadata to realise transport functions or qualities of service that are not defined in the SMD specification.
PayloadScheme	<a href="#">PayloadScheme</a>	0..1	Gets or sets the payload scheme associated with the the message.
Receiver	<a href="#">MessageAddressee</a>	1..1	Gets or sets the recipient of the message.
Sender	<a href="#">MessageAddressee</a>	1..1	Gets or sets the sender of the message.
SubjectOfCare	<a href="#">ConsumerIdentity</a>	0..1	Gets or sets the consumer whose health care is the subject of the message.
TransportResponses	ArrayOfTransportResponse	1..1	Gets or sets the set of transport responses sent or received for the message.

**Referenced By**

Name	Type
<a href="#">InboundSealedMessage</a>	Complex Type

**Complex Type: ServiceOperationFault****Description**

Represents a general failure within the service operation

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.



**Complex Type: TransportResponse****Description**

TransportResponse DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
DeliveryEndpoint	string	1..1	Gets or sets the URL of the Transport Response Delivery endpoint to which the response is delivered.
DigestValue	string	1..1	Gets or sets the digest from the signature block of the signed container in the received message.
Final	boolean	1..1	Gets or sets a value indicating whether the transport response is final.
Message	string	1..1	Gets or sets the message associated with the transport response.
OtherTransportMetadata	ArrayOfOtherTransportMetadata	1..1	Gets or sets the set of additional metadata to realise transport functions or qualities of service that are not defined in the SMD specification.
ResponseClass	<a href="#">TransportResponseClass</a>	1..1	Gets or sets the class of the transport response.
ResponseCode	string	1..1	Gets or sets a code associated with the transport response.
ResponseIdentifier	string	1..1	Gets or sets the unique identifier of the transport response.
ResponseStatus	<a href="#">TransportResponseStatus</a>	1..1	Gets or sets the status of the transport response.
ResponseTime	dateTime	1..1	Gets or sets the timestamp of the transport response.

**Complex Type: UserBase****Description**

Abstract base class for identifying an end user.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Referenced By**

Name	Type
<a href="#">LocalUser</a>	Complex Type
<a href="#">ProviderUser</a>	Complex Type
<a href="#">ResponsibleUser</a>	Complex Type

### 2.5.3 Simple Types: MessageReceiptService

#### Simple Types

Name	Description
<a href="#">InboundMessageStatus</a>	Status of inbound message receipt.
<a href="#">MessageLevel</a>	Represents the level of a message returned by a service operation.
<a href="#">ResponseStatus</a>	Represents the outcome of a service operation.
<a href="#">TransportResponseClass</a>	Class for a transport response.
<a href="#">TransportResponseStatus</a>	Status for a transport response.

**Simple Type: InboundMessageStatus****Description**

Status of inbound message receipt.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No message status has been defined.
Received	The inbound message has been received.
Unacknowledged	The inbound message receipt is yet to be acknowledged.
Unpublished	The inbound message has been acknowledged, but the message is yet to be published.
Published	The inbound message has been published to subscribers.
Retrieved	The inbound message has been retrieved.
Failed	The inbound message receipt processing has failed.
Expired	The inbound message has expired.
Removed	The inbound message has been removed.

**Simple Type: MessageLevel****Description**

Represents the level of a message returned by a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No level has been defined.
Information	The message contains information.
Warning	The message contains a warning.
Error	The message contains an error description.

**Simple Type: ResponseStatus****Description**

Represents the outcome of a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No status has been defined.
OK	The service operation was successful.
Warning	The service operation may have been successful, with associated warning messages.

**Simple Type: TransportResponseClass****Description**

Class for a transport response.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No transport response class has been defined.
Success	The transport response class is success.
Information	The transport response class is information.
Warning	The transport response class is warning.
Error	The transport response class is error.

**Simple Type: TransportResponseStatus****Description**

Status for a transport response.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No response status has been defined.
Undelivered	The transport response for the inbound message is yet to be delivered.
Delivered	The transport response for the inbound message has been delivered.
Expired	Delivery of the transport response for the inbound message has expired.
Aborted	Operator has aborted the delivery of the transport response.
Received	A transport response has been received for the outbound message.



## 2.6 ProviderIndividualDirectoryService Web Service

### Description

Service contract to support maintaining a directory of provider individual information.

### See Also

- [Methods](#)
- [Complex Types](#)
- [Simple Types](#)

## 2.6.1 Methods: ProviderIndividualDirectoryService

### Methods

Name	Description
<a href="#">CreateLocalIdentifier</a>	Creates a new local identifier mapping for a provider individual.
<a href="#">DeleteLocalIdentifier</a>	Deletes a local identifier mapping for a provider individual.
<a href="#">GetValidatedHpii</a>	Attempts to obtain a validated HPI-I for use in a new eHealth message or document to identify the author or recipient individual.
<a href="#">ListMappedIndividuals</a>	Returns a list of provider individuals for whom one or more local identifier mappings exist.
<a href="#">Search</a>	Searches the LHSD for a list of provider individuals and their linked organisations.

**Method: CreateLocalIdentifier****Description**

Creates a new local identifier mapping for a provider individual.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: DeleteLocalIdentifier****Description**

Deletes a local identifier mapping for a provider individual.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: GetValidatedHpii****Description**

Attempts to obtain a validated HPI-I for use in a new eHealth message or document to identify the author or recipient individual.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">ValidatedHpii</a>	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
IdentifierValidationFaultFault	IdentifierValidationFault	
IdentifierAcquisitionFaultFault	IdentifierAcquisitionFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: ListMappedIndividuals****Description**

Returns a list of provider individuals for whom one or more local identifier mappings exist.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfProviderIndividual	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: Search****Description**

Searches the LHSD for a list of provider individuals and their linked organisations.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">SearchResult</a>	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

## 2.6.2 Complex Types: ProviderIndividualDirectoryService

### Complex Types

Name	Description
<a href="#">Address</a>	Address DTO.
<a href="#">AddressSearch</a>	Address search criteria DTO.
<a href="#">ChannelCarrier</a>	Channel Carrier DTO.
<a href="#">ChannelType</a>	Channel type DTO.
<a href="#">Delegate</a>	Delegate DTO.
<a href="#">DocumentChannelPreference</a>	DocumentChannelPreference DTO. This is based on the NEPS DCP model.
<a href="#">DocumentType</a>	Document type DTO.
<a href="#">ElectronicContact</a>	ElectronicContact DTO.
<a href="#">ElectronicContactSearch</a>	Electronic Contact search criteria DTO.
<a href="#">FaultBase</a>	
<a href="#">IdentifierAcquisitionFault</a>	Represents a failure to obtain a requested identifier.
<a href="#">IdentifierValidationFault</a>	Represents a failure to validate a requested identifier.
<a href="#">IndividualName</a>	Individual Name DTO.
<a href="#">IndividualNameAlias</a>	Individual Name Alias DTO.
<a href="#">IndividualNameSearch</a>	Individual name search criteria DTO.
<a href="#">IndividualOccupation</a>	Individual Occupation DTO.
<a href="#">InteractionRecord</a>	InteractionRecord DTO.
<a href="#">Intermediary</a>	Intermediary DTO.
<a href="#">InvalidRequestFault</a>	Represents a failure within the conditions defined to validate the request to the service operation.
<a href="#">LocalUser</a>	
<a href="#">LocationClassification</a>	LocationClassification DTO.
<a href="#">Message</a>	Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.
<a href="#">OrganisationName</a>	Organisation Name DTO.
<a href="#">PayloadPackaging</a>	Payload packaging DTO.
<a href="#">PayloadScheme</a>	Payload scheme DTO.
<a href="#">PersistedDTOTBase</a>	
<a href="#">ProprietaryValue</a>	ProprietaryValue DTO. This is an extension property (name and value pair) used to store jurisdiction-specific proprietary messaging information. An example is Queensland Health's STS addressing data.
<a href="#">ProviderIdentifier</a>	
<a href="#">ProviderIdentifierSearch</a>	Provider Identifier search criteria DTO.
<a href="#">ProviderIdentifierStatus</a>	Provider Identifier Status DTO.
<a href="#">ProviderIdentifierType</a>	Provider Identifier Type DTO.
<a href="#">ProviderIndividual</a>	ProviderIndividual DTO.
<a href="#">ProviderIndividualIdentifier</a>	Provider Individual Identifier DTO.
<a href="#">ProviderIndividualSearch</a>	Provider Individual search criteria DTO.
<a href="#">ProviderLink</a>	ProviderLink DTO. This is a link between an Individual and a Location.



Name	Description
<a href="#">ProviderLinkIdentifier</a>	Provider Link Identifier DTO.
<a href="#">ProviderLinkSearch</a>	Provider Link search criteria DTO. This is a link between an Individual and a Location.
<a href="#">ProviderLocation</a>	ProviderLocation DTO.
<a href="#">ProviderLocationIdentifier</a>	Provider Location Identifier DTO. Examples are NHSD Site ID or STS Location ID.
<a href="#">ProviderLocationSearch</a>	Provider Location search criteria DTO.
<a href="#">ProviderOrganisation</a>	ProviderOrganisation DTO.
<a href="#">ProviderOrganisationIdentifier</a>	Provider Organisation Identifier DTO.
<a href="#">ProviderOrganisationSearch</a>	Provider Organisation search criteria DTO.
<a href="#">ProviderUser</a>	
<a href="#">ResponsibleUser</a>	
<a href="#">SearchResult</a>	SearchResult DTO.
<a href="#">ServiceInterface</a>	ServiceInterface DTO.
<a href="#">ServiceOperationFault</a>	Represents a general failure within the service operation
<a href="#">Sex</a>	Sex DTO.
<a href="#">UserBase</a>	Abstract base class for identifying an end user.
<a href="#">ValidatedHpii</a>	Validated HPI-I DTO.

**Complex Type: Address****Description**

Address DTO.

**Derived By**Extending [PersistedDTOTBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AddressSiteName	string	0..1	Gets or sets the site name.
ContactPurposeCode	string	0..1	Gets or sets the Code for the contact purpose.
ContactPurposeDisplayName	string	0..1	Gets or sets the DisplayName for the contact purpose.
ContactPurposeUri	string	0..1	Gets or sets the NHSD URI for the contact purpose.
Elevation	int	0..1	Gets or sets the geocoded elevation in metres.
FlatNumber	string	0..1	Gets or sets the unit number.
FlatType	string	0..1	Gets or sets the flat type reference item display name.
Latitude	double	0..1	Gets or sets the geocoded latitude in degrees.
LevelNumber	string	0..1	Gets or sets the level number.
LevelType	string	0..1	Gets or sets the level type.
Longitude	double	0..1	Gets or sets the geocoded longitude in degrees.
LotNumber	string	0..1	Gets or sets the lot number.
PostalDeliveryNumber	string	0..1	Gets or sets the postal delivery number.
PostalDeliveryType	string	0..1	Gets or sets the postal delivery type.
Postcode	string	0..1	Gets or sets the postcode.
State	string	0..1	Gets or sets the state or territory.
StreetName	string	0..1	Gets or sets the street name.
StreetNumber	string	0..1	Gets or sets the street number.
StreetSuffix	string	0..1	Gets or sets the street suffix.
StreetType	string	0..1	Gets or sets the street type.
Suburb	string	0..1	Gets or sets the suburb, town or locality.
UnstructuredAddressLine	string	0..1	Gets or sets the unstructured address line.

**Complex Type: AddressSearch****Description**

Address search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AddressSiteName	string	0..1	Gets or sets the site name.
ContactPurposeCode	string	0..1	Gets or sets the code representing the address purpose.
FlatNumber	string	0..1	Gets or sets the unit number.
FlatType	string	0..1	Gets or sets the unit type.
Latitude	string	0..1	Gets or sets the geocoded latitude.
LevelNumber	string	0..1	Gets or sets the level number.
LevelType	string	0..1	Gets or sets the level type.
Longitude	string	0..1	Gets or sets the geocoded longitude.
LotNumber	string	0..1	Gets or sets the lot number.
PostalDeliveryNumber	string	0..1	Gets or sets the postal delivery number.
PostalDeliveryType	string	0..1	Gets or sets the postal delivery type.
Postcode	string	0..1	Gets or sets the postcode.
State	string	0..1	Gets or sets the state or territory.
StreetName	string	0..1	Gets or sets the street name.
StreetNumber	string	0..1	Gets or sets the street number.
StreetSuffix	string	0..1	Gets or sets the street suffix.
StreetType	string	0..1	Gets or sets the street type.
Suburb	string	0..1	Gets or sets the suburb, town or locality.
UnstructuredAddressLine	string	0..1	Gets or sets the unstructured address line.

**Complex Type: ChannelCarrier****Description**

Channel Carrier DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelCarrierCode	string	0..1	Gets or sets the Code for the channel carrier.
ChannelCarrierDisplayName	string	0..1	Gets or sets the Display Name for the channel carrier.
ChannelCarrierURI	string	1..1	Gets or sets the NHSD URI for the channel carrier.
Preference	long	1..1	Gets or sets the The relative preference of this carrier among those supported for delivery of a particular payload scheme via a particular channel type to a particular organisation or location..
ProprietaryValues	ArrayOfProprietaryValue	1..1	Gets or sets the list of proprietary values for the channel carrier.

**Complex Type: ChannelType****Description**

Channel type DTO.

**Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelCarriers	ArrayOfChannelCarrier	0..1	Gets or sets, if applicable, a list of messaging vendors through which the provider location can receive documents over this channel. Examples are Argus, HealthLink or Medical Objects. Not applicable for fax or post.
ChannelTypeCode	string	0..1	Gets or sets the NHSD Code for this channel type.
ChannelTypeDescription	string	0..1	Gets or sets the NHSD Description for this channel type.
ChannelTypeUri	string	0..1	Gets or sets the NHSD URI for the channel type.
DocumentFormatDisplayName	string	0..1	Gets or sets the NHSD Display name for the format in which the document must be sent when delivering using channel type.
DocumentFormatUri	string	0..1	Gets or sets the NHSD Uri for the format in which the document must be sent when delivering using channel type.
PayloadScheme	string	1..1	Gets or sets the Payload Scheme URI for the format in which the document must be sent when delivering using this channel type.
Preference	long	1..1	Gets or sets the degree to which the provider location prefers this channel to other channels for the same document type.
ProprietaryValues	ArrayOfProprietaryValue	1..1	Gets or sets the list of proprietary values for the channel type.

**Complex Type: Delegate****Description**

Delegate DTO.

**Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the delegate.
Intermediary	<a href="#">Intermediary</a>	1..1	Gets or sets the intermediary associated with the delegate.
IsActive	boolean	1..1	Gets or sets a value indicating whether the delegate is active (available for use).
Name	string	1..1	Gets or sets the name of the delegate.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the delegate, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the delegate.

**Complex Type: DocumentChannelPreference****Description**

DocumentChannelPreference DTO. This is based on the NEPS DCP model.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelTypes	ArrayOfChannelType	1..1	Gets or sets the list of channels by which the provider location can accept this document type. Examples are SMD, Email, Proprietary, Fax or Post.
DocumentChannelPreferenceId	string	0..1	Gets or sets the document channel preference ID from NEPS.
DocumentTypeCode	string	1..1	Gets or sets the code for the document type.
DocumentTypeDisplayName	string	1..1	Gets or sets the Display Name for the document type.
DocumentTypeOid	string	1..1	Gets or sets the NHSD Root OID for the document type code.
DocumentTypeUri	string	1..1	Gets or sets the NHSD URI for the document type that this record expresses a preference for delivery of.
LocationId	string	0..1	Gets or sets the primary identifier of the target provider location.
OrganisationId	string	0..1	Gets or sets the primary identifier of the target provider organisation.

**Complex Type: DocumentType****Description**

Document type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code that identifies this type of document.
Description	string	1..1	Gets or sets the name of the document type.



**Complex Type: ElectronicContact****Description**

ElectronicContact DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ContactPurposeCode	string	0..1	Gets or sets the Code for the contact purpose.
ContactPurposeDisplayName	string	0..1	Gets or sets the DisplayName for the contact purpose.
ContactPurposeUri	string	0..1	Gets or sets the Uri for the contact purpose.
ContactTypeCode	string	0..1	Gets or sets the code for the contact type.
ContactTypeDisplayName	string	0..1	Gets or sets the DisplayName for the contact type.
ContactTypeUri	string	0..1	Gets or sets the NHSD URI for the Contact Type.
Preference	long	0..1	Indicates whether this is the preferred method of contacting the individual or organisation.
Value	string	0..1	Gets or sets the Actual number or address that can be used to contact the individual or organisation.

**Complex Type: ElectronicContactSearch****Description**

Electronic Contact search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
ContactPurposeCode	string	0..1	Gets or sets the Code representing the usage, such as business or personal.
ContactTypeCode	string	0..1	Gets or sets the Code representing the medium, such as phone, fax or email.
Value	string	0..1	Gets or sets the Actual number or address that can be used to contact the individual or organisation.

**Complex Type: FaultBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Referenced By**

Name	Type
<a href="#">IdentifierAcquisitionFault</a>	Complex Type
<a href="#">IdentifierValidationFault</a>	Complex Type
<a href="#">InvalidRequestFault</a>	Complex Type
<a href="#">ServiceOperationFault</a>	Complex Type

**Complex Type: IdentifierAcquisitionFault****Description**

Represents a failure to obtain a requested identifier.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Complex Type: IdentifierValidationFault****Description**

Represents a failure to validate a requested identifier.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Complex Type: IndividualName****Description**

Individual Name DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
FamilyName	string	1..1	Gets or sets the family name of the individual.
GivenName	string	1..1	Gets or sets the given names of the individual, separated by spaces.
MiddleName	string	1..1	Gets or sets the middle name of the individual, separated by spaces.
Title	string	1..1	Gets or sets the titles of the individual, separated by spaces.

**Complex Type: IndividualNameAlias****Description**

Individual Name Alias DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
KnownAsCode	string	0..1	Gets or sets the Code of the 'known as' reference item..
KnownAsDisplayName	string	0..1	Gets or sets the Display Name of the 'known as' reference item.
KnownAsURI	string	1..1	Gets or sets the URI of the 'known as' reference item..
Value	string	1..1	Gets or sets the name by which the individual is known.

**Complex Type: IndividualNameSearch****Description**

Individual name search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
FamilyName	string	0..1	Gets or sets the family name of the individual.
GivenNames	string	0..1	Gets or sets the given names of the individual, separated by spaces.
KnownAs	string	0..1	Gets or sets the alias name of the individual.
Suffixes	string	0..1	Gets or sets the suffixes of the individual, separated by spaces.
Titles	string	0..1	Gets or sets the titles of the individual, separated by spaces.



**Complex Type: IndividualOccupation****Description**

Individual Occupation DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:SEQUENCE</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	0..1	Gets or sets the Code for the occupation.
DisplayName	string	0..1	Gets or sets the Display Name for the occupation.
URI	string	0..1	Gets or sets the URI for the occupation.

**Complex Type: InteractionRecord****Description**

InteractionRecord DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Delegate	<a href="#">Delegate</a>	1..1	Gets or sets the delegate associated with the interaction record.
OrganisationId	string	1..1	Gets or sets the primary identifier of the target organisation.
PayloadEncryptionCertificate	string	1..1	Gets or sets the payload encryption certificate in PEM format.
PayloadScheme	<a href="#">PayloadScheme</a>	1..1	Gets or sets the payload scheme associated with the interaction record.
ServiceEndpointUri	string	1..1	Gets or sets the service endpoint URI associated with the interaction record.
ServiceInterface	<a href="#">ServiceInterface</a>	1..1	Gets or sets the service interface associated with the interaction record.

**Complex Type: Intermediary****Description**

Intermediary DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:SEQUENCE</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Name	string	1..1	Gets or sets the name of the intermediary.
ServiceEndpointUri	string	1..1	Gets or sets the service endpoint URI of the intermediary.

**Complex Type: InvalidRequestFault****Description**

Represents a failure within the conditions defined to validate the request to the service operation.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.
Messages	ArrayOfMessage	0..1	Gets or sets the set of messages associated with the fault.

**Complex Type: LocalUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
Domain	string	1..1	Gets or sets the name of the directory domain of the user within the local directory.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Login	string	1..1	Gets or sets the name of the login (account) of the user within the local directory.

**Complex Type: LocationClassification****Description**

LocationClassification DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	0..1	Gets or sets the Code for the healthcare service type.
DisplayName	string	0..1	Gets or sets the Display Name for the healthcare service type.
URI	string	0..1	Gets or sets the URI for the healthcare service type.

**Complex Type: Message****Description**

Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Code	string	0..1	Gets or sets the code associated with the message.
Data	anyType	0..1	Gets or sets any additional data associated with the message.
Description	string	1..1	Gets or sets a detailed description of the message content.
Level	<a href="#">MessageLevel</a>	1..1	Gets or sets the level associated with the message.
Messages	ArrayOfMessage	1..1	Gets or sets the set of messages associated with the message.
Origin	string	1..1	Gets or sets a string identifying the origin of the message, such as "HIPS" or "PCEHR".

**Complex Type: OrganisationName****Description**

Organisation Name DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
KnownAsCode	string	0..1	Gets or sets the Code of the known as' reference item.
KnownAsDisplayName	string	0..1	Gets or sets the Display Name of the known as' reference item.
KnownAsURI	string	0..1	Gets or sets the URI of the known as' reference item.
Value	string	0..1	Gets or sets the organisation name itself.



**Complex Type: PayloadPackaging****Description**

Payload packaging DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Description	string	1..1	Gets or sets a descriptive name for the payload packaging mechanism.

**Complex Type: PayloadScheme****Description**

Payload scheme DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the payload scheme.
DocumentType	<a href="#">DocumentType</a>	1..1	Gets or sets the document type associated with the payload scheme.
IsActive	boolean	1..1	Gets or sets a value indicating whether the payload scheme is active (available for use).
Name	string	1..1	Gets or sets the name of the payload scheme.
PayloadPackaging	<a href="#">PayloadPackaging</a>	1..1	Gets or sets the payload packaging associated with the payload scheme.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the payload scheme, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the payload scheme.

**Complex Type: PersistedDTOBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.

**Referenced By**

Name	Type
<a href="#">Address</a>	Complex Type
<a href="#">ChannelCarrier</a>	Complex Type
<a href="#">ChannelType</a>	Complex Type
<a href="#">Delegate</a>	Complex Type
<a href="#">DocumentChannelPreference</a>	Complex Type
<a href="#">DocumentType</a>	Complex Type
<a href="#">ElectronicContact</a>	Complex Type
<a href="#">IndividualName</a>	Complex Type
<a href="#">IndividualNameAlias</a>	Complex Type
<a href="#">IndividualOccupation</a>	Complex Type
<a href="#">InteractionRecord</a>	Complex Type
<a href="#">Intermediary</a>	Complex Type
<a href="#">LocationClassification</a>	Complex Type
<a href="#">OrganisationName</a>	Complex Type
<a href="#">PayloadPackaging</a>	Complex Type
<a href="#">PayloadScheme</a>	Complex Type
<a href="#">ProviderIdentifier</a>	Complex Type
<a href="#">ProviderIdentifierStatus</a>	Complex Type
<a href="#">ProviderIdentifierType</a>	Complex Type
<a href="#">ProviderIndividual</a>	Complex Type
<a href="#">ProviderLink</a>	Complex Type
<a href="#">ProviderLocation</a>	Complex Type
<a href="#">ProviderOrganisation</a>	Complex Type
<a href="#">ServiceInterface</a>	Complex Type
<a href="#">Sex</a>	Complex Type

**Complex Type: ProprietaryValue****Description**


ProprietaryValue DTO. This is an extension property (name and value pair) used to store jurisdiction-specific proprietary messaging information. An example is Queensland Health's STS addressing data.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
Name	string	0..1	Gets or sets the name of the property.
Value	string	0..1	Gets or sets the value of the property.

**Complex Type: ProviderIdentifier****Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Referenced By**

Name	Type
<a href="#">ProviderIndividualIdentifier</a>	Complex Type
<a href="#">ProviderLinkIdentifier</a>	Complex Type
<a href="#">ProviderLocationIdentifier</a>	Complex Type
<a href="#">ProviderOrganisationIdentifier</a>	Complex Type

**Complex Type: ProviderIdentifierSearch****Description**

Provider Identifier search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
TypeCode	string	0..1	Gets or sets the identifier type code.
Value	string	0..1	Gets or sets the identifier value.

**Complex Type: ProviderIdentifierStatus****Description**

Provider Identifier Status DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.

**Complex Type: ProviderIdentifierType****Description**

Provider Identifier Type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.



**Complex Type: ProviderIndividual****Description**

ProviderIndividual DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Aliases	ArrayOfIndividualNameAlias	0..1	Gets or sets the list of aliases for the individual.
Contacts	ArrayOfElectronicContact	0..1	Gets or sets the list of electronic contact details.
DateOfBirth	dateTime	0..1	Gets or sets the date of birth of the individual.
Identifiers	ArrayOfProviderIndividualIdentifier	0..1	Gets or sets the provider identifiers, including national and local identifiers.
IndividualId	string	0..1	Gets or sets the primary identifier of the individual.
IsInSubscription	boolean	0..1	Gets or sets a value indicating whether the individual is subscribed.
Name	<a href="#">IndividualName</a>	0..1	Gets or sets the list of names for the individual.
Occupations	ArrayOfIndividualOccupation	0..1	Gets or sets the list of provider types, specialties and specialisations.
Sex	<a href="#">Sex</a>	0..1	Gets or sets the sex of the individual.

**Complex Type: ProviderIndividualIdentifier****Description**

Provider Individual Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderIndividualSearch****Description**

Provider Individual search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Classifications	<a href="#">IndividualOccupation</a>	0..1	Gets or sets the provider type, specialty and/or specialisation.
Contact	<a href="#">ElectronicContactSearch</a>	0..1	Gets or sets the electronic contact detail.
DateOfBirth	dateTime	0..1	Gets or sets the date of birth of the individual.
Identifier	<a href="#">ProviderIdentifierSearch</a>	0..1	Gets or sets the provider identifier, which can be a national or local identifier.
Name	<a href="#">IndividualNameSearch</a>	0..1	Gets or sets the individual name.
Sex	<a href="#">Sex</a>	0..1	Gets or sets the sex of the individual.

**Complex Type: ProviderLink****Description**

ProviderLink DTO. This is a link between an Individual and a Location.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
IndividualId	string	0..1	Gets or sets the primary identifier of the individual.
LinkIdentifiers	ArrayOfProviderLinkIdIdentifier	0..1	Gets or sets the list of identifiers of this link.
LocationId	string	0..1	Gets or sets the primary identifier of the location.

**Complex Type: ProviderLinkIdentifier****Description**

Provider Link Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderLinkSearch****Description**

Provider Link search criteria DTO. This is a link between an Individual and a Location.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
LinkIdentifier	<a href="#">ProviderIdentifierSearch</a>	0..1	Gets or sets the identifier of this link.

**Complex Type: ProviderLocation****Description**

ProviderLocation DTO.

**Derived By**

Extending [PersistedDTOTBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Addresses	ArrayOfAddress	0..1	Gets or sets the list of addresses.
Classifications	ArrayOfLocationClassification	0..1	Gets or sets the list of organisation types, service types and service units.
Contacts	ArrayOfElectronicContact	0..1	Gets or sets the list of electronic contact details.
Identifiers	ArrayOfProviderLocationIdentifier	0..1	Gets or sets the list of identifiers for this location, including national and local identifiers.
LocationDescription	string	0..1	Gets or sets the location description.
LocationId	string	0..1	Gets or sets the primary identifier of this location.
LocationName	string	0..1	Gets or sets the location name.
OrganisationId	string	0..1	Gets or sets the primary identifier of the organisation to which this location belongs.

**Complex Type: ProviderLocationIdentifier****Description**

Provider Location Identifier DTO. Examples are NHSD Site ID or STS Location ID.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.



**Complex Type: ProviderLocationSearch****Description**

Provider Location search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Address	<a href="#">AddressSearch</a>	0..1	Gets or sets the address.
Classification	<a href="#">LocationClassification</a>	0..1	Gets or sets the organisation type, service type and/or service unit.
Contact	<a href="#">ElectronicContactSearch</a>	0..1	Gets or sets the electronic contact detail.
Identifier	<a href="#">ProviderIdentifierSearch</a>	0..1	Gets or sets the identifier for this location, either a national or a local identifier.
LocationDescription	string	0..1	Gets or sets the location description.
LocationName	string	0..1	Gets or sets the location name.

**Complex Type: ProviderOrganisation****Description**

ProviderOrganisation DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Identifiers	ArrayOfProviderOrganisationIdentifier	0..1	Gets or sets the list of identifiers for the organisation, including national and local identifiers.
IsInSubscription	boolean	0..1	Gets or sets a value indicating whether the individual is subscribed.
LegalName	string	0..1	Gets or sets the organisation legal name.
OrganisationDescription	string	0..1	Gets or sets the organisation description.
OrganisationId	string	0..1	Gets or sets the primary identifier for this organisation.
OrganisationNames	ArrayOfOrganisationName	0..1	Gets or sets the list of additional organisation names with codes describing how the organisation name is used.

**Complex Type: ProviderOrganisationIdentifier****Description**

Provider Organisation Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderOrganisationSearch****Description**

Provider Organisation search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
Identifier	<a href="#">ProviderIdentifierSearch</a>	0..1	Gets or sets the identifier for the organisation, either a national or a local identifier.
LegalName	string	0..1	Gets or sets the organisation legal name.
OrganisationDescription	string	0..1	Gets or sets the organisation description.
OrganisationName	<a href="#">OrganisationName</a>	0..1	Gets or sets the additional organisation name with a code describing how the organisation name is used.

**Complex Type: ProviderUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Hpil	string	1..1	Gets or sets the health provider identifier - individual identifying the provider user.

**Complex Type: ResponsibleUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Complex Type: SearchResult****Description**

SearchResult DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
DocumentChannelPreferences	ArrayOfDocumentChannelPreference	1..1	Gets or sets the list of document channel preferences.
Individuals	ArrayOfProviderIndividual	1..1	Gets or sets the list of individuals.
InteractionRecords	ArrayOfInteractionRecord	1..1	Gets or sets the list of interaction records.
Links	ArrayOfProviderLink	1..1	Gets or sets the list of links.
Locations	ArrayOfProviderLocation	1..1	Gets or sets the list of locations.
Organisations	ArrayOfProviderOrganisation	1..1	Gets or sets the list of organisations.

**Complex Type: ServiceInterface****Description**

ServiceInterface DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:sequence</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the service interface.
Name	string	1..1	Gets or sets the name of the service interface.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the service interface, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the service interface.



**Complex Type: ServiceOperationFault****Description**

Represents a general failure within the service operation

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Complex Type: Sex****Description**

Sex DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the DisplayName of the "Code" Reference Item.
DisplayName	string	1..1	Gets or sets the DisplayName of the "Gender" Reference Item.
URI	string	1..1	Gets or sets the DisplayName of the "URI" Reference Item.

**Complex Type: UserBase****Description**

Abstract base class for identifying an end user.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Referenced By**

Name	Type
<a href="#">LocalUser</a>	Complex Type
<a href="#">ProviderUser</a>	Complex Type
<a href="#">ResponsibleUser</a>	Complex Type

**Complex Type: ValidatedHpII****Description**

Validated HPI-I DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
CurrentName	<a href="#">IndividualName</a>	0..1	Gets or sets the current name of the individual in the NHSD. This value is stored in the nhsd.ProviderIndividual table.
DateLastValidated	dateTime	0..1	Gets or sets the date and time when validation last occurred.
Identifiers	ArrayOfProviderIndividualIdentifier	1..1	Gets or sets the list of identifiers in the NHSD and LHSD. These values are stored in the nhsd.ProviderIndividualIdentifier table.
RegisteredAhpra	string	0..1	Gets or sets the AHPRA number associated with the validated HPI-I. This value is stored in the p2p.ProviderIndividualHpII table.
RegisteredName	<a href="#">IndividualName</a>	0..1	Gets or sets the registered name of the individual, associated with the validated HPI-I. This value is stored in the p2p.ProviderIndividualHpII table.
Value	string	0..1	Gets or sets the value of the validated HPI-I.

### 2.6.3 Simple Types: ProviderIndividualDirectoryService

#### Simple Types

Name	Description
<a href="#">Entity</a>	Enumeration of entity types, used to specify which entities should be returned in the search results.
<a href="#">MessageLevel</a>	Represents the level of a message returned by a service operation.
<a href="#">ResponseStatus</a>	Represents the outcome of a service operation.

**Simple Type: Entity****Description**

Enumeration of entity types, used to specify which entities should be returned in the search results.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No entities required.
Link	Return the links between individuals and organisation service locations.
Individual	Return the individual practitioners.
IndividualName	Return the names of each individual practitioner.
IndividualClassification	Return the classifications of each individual practitioner.
IndividualContact	Return the contact details of each individual practitioner.
Organisation	Return the healthcare provider organisations.
OrganisationName	Return the additional names of each healthcare provider organisation.
Location	Return the organisation service locations.
LocationClassification	Return the classifications of each organisation service location.
LocationAddress	Return the address of each organisation service location.
LocationContact	Return the contact details of each organisation service location.
DocumentChannelPreference	Return the document channel preferences of each organisation service location.
InteractionRecord	Return the interaction records of each organisation.

**Simple Type: MessageLevel****Description**

Represents the level of a message returned by a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No level has been defined.
Information	The message contains information.
Warning	The message contains a warning.
Error	The message contains an error description.

**Simple Type: ResponseStatus****Description**

Represents the outcome of a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No status has been defined.
OK	The service operation was successful.
Warning	The service operation may have been successful, with associated warning messages.



## 2.7 ProviderLocationDirectoryService Web Service

### Description

Service contract to support maintaining a directory of provider organisation information.

### See Also

- [Methods](#)
- [Complex Types](#)
- [Simple Types](#)

## 2.7.1 Methods: ProviderLocationDirectoryService

### Methods

Name	Description
<a href="#">CreateLocalIdentifier</a>	Creates a new local identifier mapping for a provider organisation.
<a href="#">DeleteLocalIdentifier</a>	Deletes a local identifier mapping for a provider organisation.
<a href="#">ListMappedLocations</a>	Returns a list of provider organisations for whom one or more local identifier mappings exist.

**Method: CreateLocalIdentifier****Description**

Creates a new local identifier mapping for a provider organisation.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: DeleteLocalIdentifier****Description**

Deletes a local identifier mapping for a provider organisation.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: ListMappedLocations****Description**

Returns a list of provider organisations for whom one or more local identifier mappings exist.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfProviderLocation	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

## 2.7.2 Complex Types: ProviderLocationDirectoryService

### Complex Types

Name	Description
<a href="#">Address</a>	Address DTO.
<a href="#">ElectronicContact</a>	ElectronicContact DTO.
<a href="#">FaultBase</a>	
<a href="#">InvalidRequestFault</a>	Represents a failure within the conditions defined to validate the request to the service operation.
<a href="#">LocalUser</a>	
<a href="#">LocationClassification</a>	LocationClassification DTO.
<a href="#">Message</a>	Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.
<a href="#">PersistedDTOBase</a>	
<a href="#">ProviderIdentifier</a>	
<a href="#">ProviderIdentifierStatus</a>	Provider Identifier Status DTO.
<a href="#">ProviderIdentifierType</a>	Provider Identifier Type DTO.
<a href="#">ProviderLocation</a>	ProviderLocation DTO.
<a href="#">ProviderLocationIdentifier</a>	Provider Location Identifier DTO. Examples are NHSD Site ID or STS Location ID.
<a href="#">ProviderUser</a>	
<a href="#">ResponsibleUser</a>	
<a href="#">ServiceOperationFault</a>	Represents a general failure within the service operation
<a href="#">UserBase</a>	Abstract base class for identifying an end user.

**Complex Type: Address****Description**

Address DTO.

**Derived By**

Extending [PersistedDTOTBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AddressSiteName	string	0..1	Gets or sets the site name.
ContactPurposeCode	string	0..1	Gets or sets the Code for the contact purpose.
ContactPurposeDisplayName	string	0..1	Gets or sets the DisplayName for the contact purpose.
ContactPurposeUri	string	0..1	Gets or sets the NHSD URI for the contact purpose.
Elevation	int	0..1	Gets or sets the geocoded elevation in metres.
FlatNumber	string	0..1	Gets or sets the unit number.
FlatType	string	0..1	Gets or sets the flat type reference item display name.
Latitude	double	0..1	Gets or sets the geocoded latitude in degrees.
LevelNumber	string	0..1	Gets or sets the level number.
LevelType	string	0..1	Gets or sets the level type.
Longitude	double	0..1	Gets or sets the geocoded longitude in degrees.
LotNumber	string	0..1	Gets or sets the lot number.
PostalDeliveryNumber	string	0..1	Gets or sets the postal delivery number.
PostalDeliveryType	string	0..1	Gets or sets the postal delivery type.
Postcode	string	0..1	Gets or sets the postcode.
State	string	0..1	Gets or sets the state or territory.
StreetName	string	0..1	Gets or sets the street name.
StreetNumber	string	0..1	Gets or sets the street number.
StreetSuffix	string	0..1	Gets or sets the street suffix.
StreetType	string	0..1	Gets or sets the street type.
Suburb	string	0..1	Gets or sets the suburb, town or locality.
UnstructuredAddressLine	string	0..1	Gets or sets the unstructured address line.

**Complex Type: ElectronicContact****Description**

ElectronicContact DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ContactPurposeCode	string	0..1	Gets or sets the Code for the contact purpose.
ContactPurposeDisplayName	string	0..1	Gets or sets the DisplayName for the contact purpose.
ContactPurposeUri	string	0..1	Gets or sets the Uri for the contact purpose.
ContactTypeCode	string	0..1	Gets or sets the code for the contact type.
ContactTypeDisplayName	string	0..1	Gets or sets the DisplayName for the contact type.
ContactTypeUri	string	0..1	Gets or sets the NHSD URI for the Contact Type.
Preference	long	0..1	Indicates whether this is the preferred method of contacting the individual or organisation.
Value	string	0..1	Gets or sets the Actual number or address that can be used to contact the individual or organisation.



**Complex Type: FaultBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Referenced By**

Name	Type
<a href="#">InvalidRequestFault</a>	Complex Type
<a href="#">ServiceOperationFault</a>	Complex Type

**Complex Type: InvalidRequestFault****Description**


Represents a failure within the conditions defined to validate the request to the service operation.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.
Messages	ArrayOfMessage	0..1	Gets or sets the set of messages associated with the fault.

**Complex Type: LocalUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
Domain	string	1..1	Gets or sets the name of the directory domain of the user within the local directory.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Login	string	1..1	Gets or sets the name of the login (account) of the user within the local directory.

**Complex Type: LocationClassification****Description**

LocationClassification DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	0..1	Gets or sets the Code for the healthcare service type.
DisplayName	string	0..1	Gets or sets the Display Name for the healthcare service type.
URI	string	0..1	Gets or sets the URI for the healthcare service type.

**Complex Type: Message****Description**

Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Code	string	0..1	Gets or sets the code associated with the message.
Data	anyType	0..1	Gets or sets any additional data associated with the message.
Description	string	1..1	Gets or sets a detailed description of the message content.
Level	<a href="#">MessageLevel</a>	1..1	Gets or sets the level associated with the message.
Messages	ArrayOfMessage	1..1	Gets or sets the set of messages associated with the message.
Origin	string	1..1	Gets or sets a string identifying the origin of the message, such as "HIPS" or "PCEHR".

**Complex Type: PersistedDTOBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.

**Referenced By**

Name	Type
<a href="#">Address</a>	Complex Type
<a href="#">ElectronicContact</a>	Complex Type
<a href="#">LocationClassification</a>	Complex Type
<a href="#">ProviderIdentifier</a>	Complex Type
<a href="#">ProviderIdentifierStatus</a>	Complex Type
<a href="#">ProviderIdentifierType</a>	Complex Type
<a href="#">ProviderLocation</a>	Complex Type

**Complex Type: ProviderIdentifier****Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:SEQUENCE</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Referenced By**

Name	Type
<a href="#">ProviderLocationIdentifier</a>	Complex Type

**Complex Type: ProviderIdentifierStatus****Description**

Provider Identifier Status DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:sequence</small> Timestamp	dateTime	1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.



**Complex Type: ProviderIdentifierType****Description**

Provider Identifier Type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.

**Complex Type: ProviderLocation****Description**

ProviderLocation DTO.

**Derived By**

Extending [PersistedDTOTBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Addresses	ArrayOfAddress	0..1	Gets or sets the list of addresses.
Classifications	ArrayOfLocationClassification	0..1	Gets or sets the list of organisation types, service types and service units.
Contacts	ArrayOfElectronicContact	0..1	Gets or sets the list of electronic contact details.
Identifiers	ArrayOfProviderLocationIdentifier	0..1	Gets or sets the list of identifiers for this location, including national and local identifiers.
LocationDescription	string	0..1	Gets or sets the location description.
LocationId	string	0..1	Gets or sets the primary identifier of this location.
LocationName	string	0..1	Gets or sets the location name.
OrganisationId	string	0..1	Gets or sets the primary identifier of the organisation to which this location belongs.

**Complex Type: ProviderLocationIdentifier****Description**

Provider Location Identifier DTO. Examples are NHSD Site ID or STS Location ID.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Hpil	string	1..1	Gets or sets the health provider identifier - individual identifying the provider user.

**Complex Type: ResponsibleUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Complex Type: ServiceOperationFault****Description**

Represents a general failure within the service operation

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Complex Type: UserBase****Description**

Abstract base class for identifying an end user.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Referenced By**

Name	Type
<a href="#">LocalUser</a>	Complex Type
<a href="#">ProviderUser</a>	Complex Type
<a href="#">ResponsibleUser</a>	Complex Type

### 2.7.3 Simple Types: ProviderLocationDirectoryService

#### Simple Types

Name	Description
<a href="#">MessageLevel</a>	Represents the level of a message returned by a service operation.
<a href="#">ResponseStatus</a>	Represents the outcome of a service operation.



**Simple Type: MessageLevel****Description**

Represents the level of a message returned by a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No level has been defined.
Information	The message contains information.
Warning	The message contains a warning.
Error	The message contains an error description.

**Simple Type: ResponseStatus****Description**

Represents the outcome of a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No status has been defined.
OK	The service operation was successful.
Warning	The service operation may have been successful, with associated warning messages.

## 2.8 ProviderOrganisationDirectoryService Web Service

### Description

Service contract to support maintaining a directory of provider organisation information.

### See Also

- [Methods](#)
- [Complex Types](#)
- [Simple Types](#)

## 2.8.1 Methods: ProviderOrganisationDirectoryService

### Methods

Name	Description
<a href="#">CreateLocalIdentifier</a>	Creates a new local identifier mapping for a provider organisation.
<a href="#">DeleteLocalIdentifier</a>	Deletes a local identifier mapping for a provider organisation.
<a href="#">GetValidatedHpio</a>	Attempts to obtain a validated HPI-O for use in a new eHealth message or document to identify the sending or receiving organisation.
<a href="#">ListMappedOrganisations</a>	Returns a list of provider organisations for whom one or more local identifier mappings exist.
<a href="#">Search</a>	Searches the LHSD for a list of provider organisations, returning requested entities such as locations, document channel preferences and interaction records.

**Method: CreateLocalIdentifier****Description**

Creates a new local identifier mapping for a provider organisation.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: DeleteLocalIdentifier****Description**

Deletes a local identifier mapping for a provider organisation.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: GetValidatedHpio****Description**

Attempts to obtain a validated HPI-O for use in a new eHealth message or document to identify the sending or receiving organisation.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">ValidatedHpio</a>	

**Faults**

Name	Content	Description
IdentifierValidationFaultFault	IdentifierValidationFault	
IdentifierAcquisitionFaultFault	IdentifierAcquisitionFault	
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: ListMappedOrganisations****Description**

Returns a list of provider organisations for whom one or more local identifier mappings exist.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfProviderOrganisation	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	



**Method: Search****Description**

Searches the LHSD for a list of provider organisations, returning requested entities such as locations, document channel preferences and interaction records.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">SearchResult</a>	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

## 2.8.2 Complex Types: ProviderOrganisationDirectoryService

### Complex Types

Name	Description
<a href="#">Address</a>	Address DTO.
<a href="#">AddressSearch</a>	Address search criteria DTO.
<a href="#">ChannelCarrier</a>	Channel Carrier DTO.
<a href="#">ChannelType</a>	Channel type DTO.
<a href="#">Delegate</a>	Delegate DTO.
<a href="#">DocumentChannelPreference</a>	DocumentChannelPreference DTO. This is based on the NEPS DCP model.
<a href="#">DocumentType</a>	Document type DTO.
<a href="#">ElectronicContact</a>	ElectronicContact DTO.
<a href="#">ElectronicContactSearch</a>	Electronic Contact search criteria DTO.
<a href="#">FaultBase</a>	
<a href="#">IdentifierAcquisitionFault</a>	Represents a failure to obtain a requested identifier.
<a href="#">IdentifierValidationFault</a>	Represents a failure to validate a requested identifier.
<a href="#">IndividualName</a>	Individual Name DTO.
<a href="#">IndividualNameAlias</a>	Individual Name Alias DTO.
<a href="#">IndividualOccupation</a>	Individual Occupation DTO.
<a href="#">InteractionRecord</a>	InteractionRecord DTO.
<a href="#">Intermediary</a>	Intermediary DTO.
<a href="#">InvalidRequestFault</a>	Represents a failure within the conditions defined to validate the request to the service operation.
<a href="#">LocalUser</a>	
<a href="#">LocationClassification</a>	LocationClassification DTO.
<a href="#">Message</a>	Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.
<a href="#">OrganisationName</a>	Organisation Name DTO.
<a href="#">PayloadPackaging</a>	Payload packaging DTO.
<a href="#">PayloadScheme</a>	Payload scheme DTO.
<a href="#">PersistedDTOBase</a>	
<a href="#">ProprietaryValue</a>	ProprietaryValue DTO. This is an extension property (name and value pair) used to store jurisdiction-specific proprietary messaging information. An example is Queensland Health's STS addressing data.
<a href="#">ProviderIdentifier</a>	
<a href="#">ProviderIdentifierSearch</a>	Provider Identifier search criteria DTO.
<a href="#">ProviderIdentifierStatus</a>	Provider Identifier Status DTO.
<a href="#">ProviderIdentifierType</a>	Provider Identifier Type DTO.
<a href="#">ProviderIndividual</a>	ProviderIndividual DTO.
<a href="#">ProviderIndividualIdentifier</a>	Provider Individual Identifier DTO.
<a href="#">ProviderLink</a>	ProviderLink DTO. This is a link between an Individual and a Location.
<a href="#">ProviderLinkIdentifier</a>	Provider Link Identifier DTO.
<a href="#">ProviderLocation</a>	ProviderLocation DTO.

Name	Description
<a href="#">ProviderLocationIdentifier</a>	Provider Location Identifier DTO. Examples are NHSD Site ID or STS Location ID.
<a href="#">ProviderLocationSearch</a>	Provider Location search criteria DTO.
<a href="#">ProviderOrganisation</a>	ProviderOrganisation DTO.
<a href="#">ProviderOrganisationIdentifier</a>	Provider Organisation Identifier DTO.
<a href="#">ProviderOrganisationSearch</a>	Provider Organisation search criteria DTO.
<a href="#">ProviderUser</a>	
<a href="#">ResponsibleUser</a>	
<a href="#">SearchResult</a>	SearchResult DTO.
<a href="#">ServiceInterface</a>	ServiceInterface DTO.
<a href="#">ServiceOperationFault</a>	Represents a general failure within the service operation
<a href="#">Sex</a>	Sex DTO.
<a href="#">UserBase</a>	Abstract base class for identifying an end user.
<a href="#">ValidatedHpio</a>	Validated HPI-O DTO.

**Complex Type: Address****Description**

Address DTO.

**Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AddressSiteName	string	0..1	Gets or sets the site name.
ContactPurposeCode	string	0..1	Gets or sets the Code for the contact purpose.
ContactPurposeDisplayName	string	0..1	Gets or sets the DisplayName for the contact purpose.
ContactPurposeUri	string	0..1	Gets or sets the NHSD URI for the contact purpose.
Elevation	int	0..1	Gets or sets the geocoded elevation in metres.
FlatNumber	string	0..1	Gets or sets the unit number.
FlatType	string	0..1	Gets or sets the flat type reference item display name.
Latitude	double	0..1	Gets or sets the geocoded latitude in degrees.
LevelNumber	string	0..1	Gets or sets the level number.
LevelType	string	0..1	Gets or sets the level type.
Longitude	double	0..1	Gets or sets the geocoded longitude in degrees.
LotNumber	string	0..1	Gets or sets the lot number.
PostalDeliveryNumber	string	0..1	Gets or sets the postal delivery number.
PostalDeliveryType	string	0..1	Gets or sets the postal delivery type.
Postcode	string	0..1	Gets or sets the postcode.
State	string	0..1	Gets or sets the state or territory.
StreetName	string	0..1	Gets or sets the street name.
StreetNumber	string	0..1	Gets or sets the street number.
StreetSuffix	string	0..1	Gets or sets the street suffix.
StreetType	string	0..1	Gets or sets the street type.
Suburb	string	0..1	Gets or sets the suburb, town or locality.
UnstructuredAddressLine	string	0..1	Gets or sets the unstructured address line.

**Complex Type: AddressSearch****Description**

Address search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AddressSiteName	string	0..1	Gets or sets the site name.
ContactPurposeCode	string	0..1	Gets or sets the code representing the address purpose.
FlatNumber	string	0..1	Gets or sets the unit number.
FlatType	string	0..1	Gets or sets the unit type.
Latitude	string	0..1	Gets or sets the geocoded latitude.
LevelNumber	string	0..1	Gets or sets the level number.
LevelType	string	0..1	Gets or sets the level type.
Longitude	string	0..1	Gets or sets the geocoded longitude.
LotNumber	string	0..1	Gets or sets the lot number.
PostalDeliveryNumber	string	0..1	Gets or sets the postal delivery number.
PostalDeliveryType	string	0..1	Gets or sets the postal delivery type.
Postcode	string	0..1	Gets or sets the postcode.
State	string	0..1	Gets or sets the state or territory.
StreetName	string	0..1	Gets or sets the street name.
StreetNumber	string	0..1	Gets or sets the street number.
StreetSuffix	string	0..1	Gets or sets the street suffix.
StreetType	string	0..1	Gets or sets the street type.
Suburb	string	0..1	Gets or sets the suburb, town or locality.
UnstructuredAddressLine	string	0..1	Gets or sets the unstructured address line.

**Complex Type: ChannelCarrier****Description**

Channel Carrier DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelCarrierCode	string	0..1	Gets or sets the Code for the channel carrier.
ChannelCarrierDisplayName	string	0..1	Gets or sets the Display Name for the channel carrier.
ChannelCarrierURI	string	1..1	Gets or sets the NHSD URI for the channel carrier.
Preference	long	1..1	Gets or sets the The relative preference of this carrier among those supported for delivery of a particular payload scheme via a particular channel type to a particular organisation or location..
ProprietaryValues	ArrayOfProprietaryValue	1..1	Gets or sets the list of proprietary values for the channel carrier.

**Complex Type: ChannelType****Description**

Channel type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelCarriers	ArrayOfChannelCarrier	0..1	Gets or sets, if applicable, a list of messaging vendors through which the provider location can receive documents over this channel. Examples are Argus, HealthLink or Medical Objects. Not applicable for fax or post.
ChannelTypeCode	string	0..1	Gets or sets the NHSD Code for this channel type.
ChannelTypeDescription	string	0..1	Gets or sets the NHSD Description for this channel type.
ChannelTypeUri	string	0..1	Gets or sets the NHSD URI for the channel type.
DocumentFormatDisplayName	string	0..1	Gets or sets the NHSD Display name for the format in which the document must be sent when delivering using channel type.
DocumentFormatUri	string	0..1	Gets or sets the NHSD Uri for the format in which the document must be sent when delivering using channel type.
PayloadScheme	string	1..1	Gets or sets the Payload Scheme URI for the format in which the document must be sent when delivering using this channel type.
Preference	long	1..1	Gets or sets the degree to which the provider location prefers this channel to other channels for the same document type.
ProprietaryValues	ArrayOfProprietaryValue	1..1	Gets or sets the list of proprietary values for the channel type.

**Complex Type: Delegate****Description**

Delegate DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the delegate.
Intermediary	<a href="#">Intermediary</a>	1..1	Gets or sets the intermediary associated with the delegate.
IsActive	boolean	1..1	Gets or sets a value indicating whether the delegate is active (available for use).
Name	string	1..1	Gets or sets the name of the delegate.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the delegate, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the delegate.



**Complex Type: DocumentChannelPreference****Description**

DocumentChannelPreference DTO. This is based on the NEPS DCP model.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelTypes	ArrayOfChannelType	1..1	Gets or sets the list of channels by which the provider location can accept this document type. Examples are SMD, Email, Proprietary, Fax or Post.
DocumentChannelPreferenceId	string	0..1	Gets or sets the document channel preference ID from NEPS.
DocumentTypeCode	string	1..1	Gets or sets the code for the document type.
DocumentTypeDisplayName	string	1..1	Gets or sets the Display Name for the document type.
DocumentTypeOid	string	1..1	Gets or sets the NHSD Root OID for the document type code.
DocumentTypeUri	string	1..1	Gets or sets the NHSD URI for the document type that this record expresses a preference for delivery of.
LocationId	string	0..1	Gets or sets the primary identifier of the target provider location.
OrganisationId	string	0..1	Gets or sets the primary identifier of the target provider organisation.

**Complex Type: DocumentType****Description**

Document type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code that identifies this type of document.
Description	string	1..1	Gets or sets the name of the document type.

**Complex Type: ElectronicContact****Description**

ElectronicContact DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ContactPurposeCode	string	0..1	Gets or sets the Code for the contact purpose.
ContactPurposeDisplayName	string	0..1	Gets or sets the DisplayName for the contact purpose.
ContactPurposeUri	string	0..1	Gets or sets the Uri for the contact purpose.
ContactTypeCode	string	0..1	Gets or sets the code for the contact type.
ContactTypeDisplayName	string	0..1	Gets or sets the DisplayName for the contact type.
ContactTypeUri	string	0..1	Gets or sets the NHSD URI for the Contact Type.
Preference	long	0..1	Indicates whether this is the preferred method of contacting the individual or organisation.
Value	string	0..1	Gets or sets the Actual number or address that can be used to contact the individual or organisation.

**Complex Type: ElectronicContactSearch****Description**

Electronic Contact search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
ContactPurposeCode	string	0..1	Gets or sets the Code representing the usage, such as business or personal.
ContactTypeCode	string	0..1	Gets or sets the Code representing the medium, such as phone, fax or email.
Value	string	0..1	Gets or sets the Actual number or address that can be used to contact the individual or organisation.

**Complex Type: FaultBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Referenced By**

Name	Type
<a href="#">IdentifierAcquisitionFault</a>	Complex Type
<a href="#">IdentifierValidationFault</a>	Complex Type
<a href="#">InvalidRequestFault</a>	Complex Type
<a href="#">ServiceOperationFault</a>	Complex Type

**Complex Type: IdentifierAcquisitionFault****Description**

Represents a failure to obtain a requested identifier.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Complex Type: IdentifierValidationFault****Description**

Represents a failure to validate a requested identifier.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Complex Type: IndividualName****Description**

Individual Name DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
FamilyName	string	1..1	Gets or sets the family name of the individual.
GivenName	string	1..1	Gets or sets the given names of the individual, separated by spaces.
MiddleName	string	1..1	Gets or sets the middle name of the individual, separated by spaces.
Title	string	1..1	Gets or sets the titles of the individual, separated by spaces.



**Complex Type: IndividualNameAlias****Description**

Individual Name Alias DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
KnownAsCode	string	0..1	Gets or sets the Code of the 'known as' reference item..
KnownAsDisplayName	string	0..1	Gets or sets the Display Name of the 'known as' reference item.
KnownAsURI	string	1..1	Gets or sets the URI of the 'known as' reference item..
Value	string	1..1	Gets or sets the name by which the individual is known.

**Complex Type: IndividualOccupation****Description**

Individual Occupation DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	0..1	Gets or sets the Code for the occupation.
DisplayName	string	0..1	Gets or sets the Display Name for the occupation.
URI	string	0..1	Gets or sets the URI for the occupation.

**Complex Type: InteractionRecord****Description**

InteractionRecord DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Delegate	<a href="#">Delegate</a>	1..1	Gets or sets the delegate associated with the interaction record.
OrganisationId	string	1..1	Gets or sets the primary identifier of the target organisation.
PayloadEncryptionCertificate	string	1..1	Gets or sets the payload encryption certificate in PEM format.
PayloadScheme	<a href="#">PayloadScheme</a>	1..1	Gets or sets the payload scheme associated with the interaction record.
ServiceEndpointUri	string	1..1	Gets or sets the service endpoint URI associated with the interaction record.
ServiceInterface	<a href="#">ServiceInterface</a>	1..1	Gets or sets the service interface associated with the interaction record.

**Complex Type: Intermediary****Description**

Intermediary DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:sequence</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Name	string	1..1	Gets or sets the name of the intermediary.
ServiceEndpointUri	string	1..1	Gets or sets the service endpoint URI of the intermediary.

**Complex Type: InvalidRequestFault****Description**


Represents a failure within the conditions defined to validate the request to the service operation.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.
Messages	ArrayOfMessage	0..1	Gets or sets the set of messages associated with the fault.

**Complex Type: LocalUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
Domain	string	1..1	Gets or sets the name of the directory domain of the user within the local directory.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Login	string	1..1	Gets or sets the name of the login (account) of the user within the local directory.

**Complex Type: LocationClassification****Description**

LocationClassification DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	0..1	Gets or sets the Code for the healthcare service type.
DisplayName	string	0..1	Gets or sets the Display Name for the healthcare service type.
URI	string	0..1	Gets or sets the URI for the healthcare service type.

**Complex Type: Message****Description**

Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Code	string	0..1	Gets or sets the code associated with the message.
Data	anyType	0..1	Gets or sets any additional data associated with the message.
Description	string	1..1	Gets or sets a detailed description of the message content.
Level	<a href="#">MessageLevel</a>	1..1	Gets or sets the level associated with the message.
Messages	ArrayOfMessage	1..1	Gets or sets the set of messages associated with the message.
Origin	string	1..1	Gets or sets a string identifying the origin of the message, such as "HIPS" or "PCEHR".



**Complex Type: OrganisationName****Description**

Organisation Name DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
KnownAsCode	string	0..1	Gets or sets the Code of the known as' reference item.
KnownAsDisplayName	string	0..1	Gets or sets the Display Name of the known as' reference item.
KnownAsURI	string	0..1	Gets or sets the URI of the known as' reference item.
Value	string	0..1	Gets or sets the organisation name itself.

**Complex Type: PayloadPackaging****Description**

Payload packaging DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:sequence</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Description	string	1..1	Gets or sets a descriptive name for the payload packaging mechanism.

**Complex Type: PayloadScheme****Description**

Payload scheme DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the payload scheme.
DocumentType	<a href="#">DocumentType</a>	1..1	Gets or sets the document type associated with the payload scheme.
IsActive	boolean	1..1	Gets or sets a value indicating whether the payload scheme is active (available for use).
Name	string	1..1	Gets or sets the name of the payload scheme.
PayloadPackaging	<a href="#">PayloadPackaging</a>	1..1	Gets or sets the payload packaging associated with the payload scheme.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the payload scheme, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the payload scheme.

**Complex Type: PersistedDTOBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.

**Referenced By**

Name	Type
<a href="#">Address</a>	Complex Type
<a href="#">ChannelCarrier</a>	Complex Type
<a href="#">ChannelType</a>	Complex Type
<a href="#">Delegate</a>	Complex Type
<a href="#">DocumentChannelPreference</a>	Complex Type
<a href="#">DocumentType</a>	Complex Type
<a href="#">ElectronicContact</a>	Complex Type
<a href="#">IndividualName</a>	Complex Type
<a href="#">IndividualNameAlias</a>	Complex Type
<a href="#">IndividualOccupation</a>	Complex Type
<a href="#">InteractionRecord</a>	Complex Type
<a href="#">Intermediary</a>	Complex Type
<a href="#">LocationClassification</a>	Complex Type
<a href="#">OrganisationName</a>	Complex Type
<a href="#">PayloadPackaging</a>	Complex Type
<a href="#">PayloadScheme</a>	Complex Type
<a href="#">ProviderIdentifier</a>	Complex Type
<a href="#">ProviderIdentifierStatus</a>	Complex Type
<a href="#">ProviderIdentifierType</a>	Complex Type
<a href="#">ProviderIndividual</a>	Complex Type
<a href="#">ProviderLink</a>	Complex Type
<a href="#">ProviderLocation</a>	Complex Type
<a href="#">ProviderOrganisation</a>	Complex Type
<a href="#">ServiceInterface</a>	Complex Type
<a href="#">Sex</a>	Complex Type

**Complex Type: ProprietaryValue****Description**

ProprietaryValue DTO. This is an extension property (name and value pair) used to store jurisdiction-specific proprietary messaging information. An example is Queensland Health's STS addressing data.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Name	string	0..1	Gets or sets the name of the property.
Value	string	0..1	Gets or sets the value of the property.

**Complex Type: ProviderIdentifier****Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:sequence</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Referenced By**

Name	Type
<a href="#">ProviderIndividualIdentifier</a>	Complex Type
<a href="#">ProviderLinkIdentifier</a>	Complex Type
<a href="#">ProviderLocationIdentifier</a>	Complex Type
<a href="#">ProviderOrganisationIdentifier</a>	Complex Type

**Complex Type: ProviderIdentifierSearch****Description**

Provider Identifier search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
TypeCode	string	0..1	Gets or sets the identifier type code.
Value	string	0..1	Gets or sets the identifier value.

**Complex Type: ProviderIdentifierStatus****Description**

Provider Identifier Status DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:SEQUENCE</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.



**Complex Type: ProviderIdentifierType****Description**

Provider Identifier Type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.

**Complex Type: ProviderIndividual****Description**

ProviderIndividual DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Aliases	ArrayOfIndividualNameAlias	0..1	Gets or sets the list of aliases for the individual.
Contacts	ArrayOfElectronicContact	0..1	Gets or sets the list of electronic contact details.
DateOfBirth	dateTime	0..1	Gets or sets the date of birth of the individual.
Identifiers	ArrayOfProviderIndividualIdentifier	0..1	Gets or sets the provider identifiers, including national and local identifiers.
IndividualId	string	0..1	Gets or sets the primary identifier of the individual.
IsInSubscription	boolean	0..1	Gets or sets a value indicating whether the individual is subscribed.
Name	<a href="#">IndividualName</a>	0..1	Gets or sets the list of names for the individual.
Occupations	ArrayOfIndividualOccupation	0..1	Gets or sets the list of provider types, specialties and specialisations.
Sex	<a href="#">Sex</a>	0..1	Gets or sets the sex of the individual.

**Complex Type: ProviderIndividualIdentifier****Description**

Provider Individual Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderLink****Description**

ProviderLink DTO. This is a link between an Individual and a Location.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
IndividualId	string	0..1	Gets or sets the primary identifier of the individual.
LinkIdentifiers	ArrayOfProviderLinkIdIdentifier	0..1	Gets or sets the list of identifiers of this link.
LocationId	string	0..1	Gets or sets the primary identifier of the location.

**Complex Type: ProviderLinkIdentifier****Description**

Provider Link Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderLocation****Description**

ProviderLocation DTO.

**Derived By**

Extending [PersistedDTOTBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Addresses	ArrayOfAddress	0..1	Gets or sets the list of addresses.
Classifications	ArrayOfLocationClassification	0..1	Gets or sets the list of organisation types, service types and service units.
Contacts	ArrayOfElectronicContact	0..1	Gets or sets the list of electronic contact details.
Identifiers	ArrayOfProviderLocationIdentifier	0..1	Gets or sets the list of identifiers for this location, including national and local identifiers.
LocationDescription	string	0..1	Gets or sets the location description.
LocationId	string	0..1	Gets or sets the primary identifier of this location.
LocationName	string	0..1	Gets or sets the location name.
OrganisationId	string	0..1	Gets or sets the primary identifier of the organisation to which this location belongs.

**Complex Type: ProviderLocationIdentifier****Description**

Provider Location Identifier DTO. Examples are NHSD Site ID or STS Location ID.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderLocationSearch****Description**

Provider Location search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Address	<a href="#">AddressSearch</a>	0..1	Gets or sets the address.
Classification	<a href="#">LocationClassification</a>	0..1	Gets or sets the organisation type, service type and/or service unit.
Contact	<a href="#">ElectronicContactSearch</a>	0..1	Gets or sets the electronic contact detail.
Identifier	<a href="#">ProviderIdentifierSearch</a>	0..1	Gets or sets the identifier for this location, either a national or a local identifier.
LocationDescription	string	0..1	Gets or sets the location description.
LocationName	string	0..1	Gets or sets the location name.



**Complex Type: ProviderOrganisation****Description**

ProviderOrganisation DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Identifiers	ArrayOfProviderOrganisationIdentifier	0..1	Gets or sets the list of identifiers for the organisation, including national and local identifiers.
IsInSubscription	boolean	0..1	Gets or sets a value indicating whether the individual is subscribed.
LegalName	string	0..1	Gets or sets the organisation legal name.
OrganisationDescription	string	0..1	Gets or sets the organisation description.
OrganisationId	string	0..1	Gets or sets the primary identifier for this organisation.
OrganisationNames	ArrayOfOrganisationName	0..1	Gets or sets the list of additional organisation names with codes describing how the organisation name is used.

**Complex Type: ProviderOrganisationIdentifier****Description**

Provider Organisation Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderOrganisationSearch****Description**

Provider Organisation search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Identifier	<a href="#">ProviderIdentifierSearch</a>	0..1	Gets or sets the identifier for the organisation, either a national or a local identifier.
LegalName	string	0..1	Gets or sets the organisation legal name.
OrganisationDescription	string	0..1	Gets or sets the organisation description.
OrganisationName	<a href="#">OrganisationName</a>	0..1	Gets or sets the additional organisation name with a code describing how the organisation name is used.

**Complex Type: ProviderUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Hpil	string	1..1	Gets or sets the health provider identifier - individual identifying the provider user.

## Complex Type: ResponsibleUser

### Derived By

Extending [UserBase](#)

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Complex Type: SearchResult****Description**

SearchResult DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
DocumentChannelPreferences	ArrayOfDocumentChannelPreference	1..1	Gets or sets the list of document channel preferences.
Individuals	ArrayOfProviderIndividual	1..1	Gets or sets the list of individuals.
InteractionRecords	ArrayOfInteractionRecord	1..1	Gets or sets the list of interaction records.
Links	ArrayOfProviderLink	1..1	Gets or sets the list of links.
Locations	ArrayOfProviderLocation	1..1	Gets or sets the list of locations.
Organisations	ArrayOfProviderOrganisation	1..1	Gets or sets the list of organisations.

**Complex Type: ServiceInterface****Description**

ServiceInterface DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:sequence</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the service interface.
Name	string	1..1	Gets or sets the name of the service interface.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the service interface, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the service interface.

**Complex Type: ServiceOperationFault****Description**

Represents a general failure within the service operation

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.



**Complex Type: Sex****Description**

Sex DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the DisplayName of the "Code" Reference Item.
DisplayName	string	1..1	Gets or sets the DisplayName of the "Gender" Reference Item.
URI	string	1..1	Gets or sets the DisplayName of the "URI" Reference Item.

**Complex Type: UserBase****Description**

Abstract base class for identifying an end user.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Referenced By**

Name	Type
<a href="#">LocalUser</a>	Complex Type
<a href="#">ProviderUser</a>	Complex Type
<a href="#">ResponsibleUser</a>	Complex Type

**Complex Type: ValidatedHpio****Description**

Validated HPI-O DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
CurrentLegalName	string	0..1	Gets or sets the legal name of the organisation in the NHSD. Stored in the nhsd.ProviderOrganisation table.
DateLastValidated	dateTime	0..1	Gets or sets the date and time when validation last occurred.
Identifiers	ArrayOfProviderOrganisationIdentifier	1..1	Gets or sets the list of identifiers in the LHSD.
RegisteredAbn	string	0..1	Gets or sets the ABN of the organisation associated with the validated HPI-O.
RegisteredAcn	string	0..1	Gets or sets the ACN of the organisation associated with the validated HPI-O.
RegisteredLegalName	string	0..1	Gets or sets the legal name of the organisation associated with the validated HPI-O. Stored in the p2p.ProviderOrganisationHpio table.
Status	<a href="#">ProviderIdentifierStatus</a>	0..1	Gets or sets the Status of the organisation associated with the validated HPI-O.
Value	string	0..1	Gets or sets the Value of the organisation associated with the validated HPI-O.

## 2.8.3 Simple Types: ProviderOrganisationDirectoryService

### Simple Types

Name	Description
<a href="#">Entity</a>	Enumeration of entity types, used to specify which entities should be returned in the search results.
<a href="#">MessageLevel</a>	Represents the level of a message returned by a service operation.
<a href="#">ResponseStatus</a>	Represents the outcome of a service operation.

**Simple Type: Entity****Description**

Enumeration of entity types, used to specify which entities should be returned in the search results.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No entities required.
Link	Return the links between individuals and organisation service locations.
Individual	Return the individual practitioners.
IndividualName	Return the names of each individual practitioner.
IndividualClassification	Return the classifications of each individual practitioner.
IndividualContact	Return the contact details of each individual practitioner.
Organisation	Return the healthcare provider organisations.
OrganisationName	Return the additional names of each healthcare provider organisation.
Location	Return the organisation service locations.
LocationClassification	Return the classifications of each organisation service location.
LocationAddress	Return the address of each organisation service location.
LocationContact	Return the contact details of each organisation service location.
DocumentChannelPreference	Return the document channel preferences of each organisation service location.
InteractionRecord	Return the interaction records of each organisation.

**Simple Type: MessageLevel****Description**

Represents the level of a message returned by a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No level has been defined.
Information	The message contains information.
Warning	The message contains a warning.
Error	The message contains an error description.

**Simple Type: ResponseStatus**

**Description**

Represents the outcome of a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No status has been defined.
OK	The service operation was successful.
Warning	The service operation may have been successful, with associated warning messages.

## 2.9 ReferenceDataService Web Service

### Description

Service contract to support reference data lookup and updates.

### See Also

- [Methods](#)
- [Complex Types](#)
- [Simple Types](#)



## 2.9.1 Methods: ReferenceDataService

### Methods

Name	Description
<a href="#">List</a>	Lists all reference sets.
<a href="#">Search</a>	Searches a specified reference set or lists all items in a reference set.
<a href="#">Update</a>	Updates a specified reference set or all reference sets.

**Method: List****Description**

Lists all reference sets.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfReferenceSet	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: Search****Description**

Searches a specified reference set or lists all items in a reference set.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfReferenceItem	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: Update****Description**

Updates a specified reference set or all reference sets.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

## 2.9.2 Complex Types: ReferenceDataService

### Complex Types

Name	Description
<a href="#">FaultBase</a>	
<a href="#">InvalidRequestFault</a>	Represents a failure within the conditions defined to validate the request to the service operation.
<a href="#">LocalUser</a>	
<a href="#">Message</a>	Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.
<a href="#">PersistedDTOBase</a>	
<a href="#">ProviderUser</a>	
<a href="#">ReferenceItem</a>	ReferenceItem DTO.
<a href="#">ReferenceSet</a>	ReferenceSet DTO.
<a href="#">ResponsibleUser</a>	
<a href="#">ServiceOperationFault</a>	Represents a general failure within the service operation
<a href="#">UserBase</a>	Abstract base class for identifying an end user.

**Complex Type: FaultBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Referenced By**

Name	Type
<a href="#">InvalidRequestFault</a>	Complex Type
<a href="#">ServiceOperationFault</a>	Complex Type

**Complex Type: InvalidRequestFault****Description**

Represents a failure within the conditions defined to validate the request to the service operation.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.
Messages	ArrayOfMessage	0..1	Gets or sets the set of messages associated with the fault.

**Complex Type: LocalUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
Domain	string	1..1	Gets or sets the name of the directory domain of the user within the local directory.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Login	string	1..1	Gets or sets the name of the login (account) of the user within the local directory.



**Complex Type: Message****Description**

Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Code	string	0..1	Gets or sets the code associated with the message.
Data	anyType	0..1	Gets or sets any additional data associated with the message.
Description	string	1..1	Gets or sets a detailed description of the message content.
Level	<a href="#">MessageLevel</a>	1..1	Gets or sets the level associated with the message.
Messages	ArrayOfMessage	1..1	Gets or sets the set of messages associated with the message.
Origin	string	1..1	Gets or sets a string identifying the origin of the message, such as "HIPS" or "PCEHR".

**Complex Type: PersistedDTOBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.

**Referenced By**

Name	Type
<a href="#">ReferenceItem</a>	Complex Type
<a href="#">ReferenceSet</a>	Complex Type

**Complex Type: ProviderUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Hpil	string	1..1	Gets or sets the health provider identifier - individual identifying the provider user.

**Complex Type: ReferenceItem****Description**

ReferenceItem DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description.
DisplayName	string	1..1	Gets or sets the display name.
Name	string	1..1	Gets or sets the name.
Status	string	1..1	Gets or sets the status.
SubCode	string	0..1	Gets or sets the sub-code.
Uri	string	1..1	Gets or sets the URI.

**Complex Type: ReferenceSet****Description**

ReferenceSet DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Category	string	1..1	Gets or sets the category, a logical grouping of sets. For example, sets that relate to practitioners, or sets that relate to organisations or sets that relate to services.
Description	string	1..1	Gets or sets a brief description of this set.
DisplayName	string	1..1	Gets or sets the display name of the set.
Name	string	1..1	Gets or sets the name of the set.
ProfileVersion	string	1..1	Gets or sets the profile version number of this set.
Status	string	1..1	Gets or sets the status of the set.
Uri	string	1..1	Gets or sets a URI used to identify the reference set.

**Complex Type: ResponsibleUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Complex Type: ServiceOperationFault****Description**

Represents a general failure within the service operation

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Complex Type: UserBase****Description**

Abstract base class for identifying an end user.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Referenced By**

Name	Type
<a href="#">LocalUser</a>	Complex Type
<a href="#">ProviderUser</a>	Complex Type
<a href="#">ResponsibleUser</a>	Complex Type



### 2.9.3 Simple Types: ReferenceDataService

#### Simple Types

Name	Description
<a href="#">MessageLevel</a>	Represents the level of a message returned by a service operation.
<a href="#">ResponseStatus</a>	Represents the outcome of a service operation.

**Simple Type: MessageLevel****Description**

Represents the level of a message returned by a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No level has been defined.
Information	The message contains information.
Warning	The message contains a warning.
Error	The message contains an error description.

**Simple Type: ResponseStatus****Description**

Represents the outcome of a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No status has been defined.
OK	The service operation was successful.
Warning	The service operation may have been successful, with associated warning messages.

## 2.10 SubscriptionService Web Service

### Description

Service contract to support the maintenance of subscriptions with the NEPS.

### See Also

- [Methods](#)
- [Complex Types](#)
- [Simple Types](#)

## 2.10.1 Methods: SubscriptionService

### Methods

Name	Description
<a href="#">AddAreaOfInterest</a>	Adds an Area of Interest definition to the accessing organisation's subscription.
<a href="#">DeleteAreaOfInterest</a>	Deletes an Area of Interest definition from the accessing organisation's subscription.
<a href="#">FindIndividuals</a>	Searches the NHSD for provider individuals.
<a href="#">FindOrganisations</a>	Searches the NHSD for provider organisations.
<a href="#">ListSubscriptionDefinitions</a>	List of Area of Interest definitions.
<a href="#">UpdateAreaOfInterest</a>	Updates an Area of Interest definition to the accessing organisation's subscription.

**Method: AddAreaOfInterest****Description**

Adds an Area of Interest definition to the accessing organisation's subscription.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">AreaOfInterest</a>	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: DeleteAreaOfInterest****Description**

Deletes an Area of Interest definition from the accessing organisation's subscription.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">AreaOfInterest</a>	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: FindIndividuals****Description**

Searches the NHSD for provider individuals.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">SearchResult</a>	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	



**Method: FindOrganisations****Description**

Searches the NHSD for provider organisations.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">SearchResult</a>	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

**Method: ListSubscriptionDefinitions****Description**

List of Area of Interest definitions.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	ArrayOfAreaOfInterest	

**Faults**

Name	Content	Description
ServiceOperationFaultFault	ServiceOperationFault	
InvalidRequestFaultFault	InvalidRequestFault	

**Method: UpdateAreaOfInterest****Description**

Updates an Area of Interest definition to the accessing organisation's subscription.

**Parameters**

Name	Type	Direction	Description
parameters	anyType	Input	

**Returns**

Response message.

Name	Type	Description
Status	<a href="#">ResponseStatus</a>	
Messages	ArrayOfMessage	
Data	<a href="#">AreaOfInterest</a>	

**Faults**

Name	Content	Description
InvalidRequestFaultFault	InvalidRequestFault	
ServiceOperationFaultFault	ServiceOperationFault	

## 2.10.2 Complex Types: SubscriptionService

### Complex Types

Name	Description
<a href="#">Address</a>	Address DTO.
<a href="#">AddressSearch</a>	Address search criteria DTO.
<a href="#">AreaOfInterest</a>	AreaOfInterest DTO.
<a href="#">ChannelCarrier</a>	Channel Carrier DTO.
<a href="#">ChannelType</a>	Channel type DTO.
<a href="#">Delegate</a>	Delegate DTO.
<a href="#">DocumentChannelPreference</a>	DocumentChannelPreference DTO. This is based on the NEPS DCP model.
<a href="#">DocumentType</a>	Document type DTO.
<a href="#">ElectronicContact</a>	ElectronicContact DTO.
<a href="#">FaultBase</a>	
<a href="#">GeographicalArea</a>	GeographicalArea DTO.
<a href="#">IndividualName</a>	Individual Name DTO.
<a href="#">IndividualNameAlias</a>	Individual Name Alias DTO.
<a href="#">IndividualOccupation</a>	Individual Occupation DTO.
<a href="#">InteractionRecord</a>	InteractionRecord DTO.
<a href="#">Intermediary</a>	Intermediary DTO.
<a href="#">InvalidRequestFault</a>	Represents a failure within the conditions defined to validate the request to the service operation.
<a href="#">LocalUser</a>	
<a href="#">LocationClassification</a>	LocationClassification DTO.
<a href="#">Message</a>	Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.
<a href="#">OrganisationName</a>	Organisation Name DTO.
<a href="#">PayloadPackaging</a>	Payload packaging DTO.
<a href="#">PayloadScheme</a>	Payload scheme DTO.
<a href="#">PersistedDTOBase</a>	
<a href="#">ProprietaryValue</a>	ProprietaryValue DTO. This is an extension property (name and value pair) used to store jurisdiction-specific proprietary messaging information. An example is Queensland Health's STS addressing data.
<a href="#">ProviderIdentifier</a>	
<a href="#">ProviderIdentifierSearch</a>	Provider Identifier search criteria DTO.
<a href="#">ProviderIdentifierStatus</a>	Provider Identifier Status DTO.
<a href="#">ProviderIdentifierType</a>	Provider Identifier Type DTO.
<a href="#">ProviderIndividual</a>	ProviderIndividual DTO.
<a href="#">ProviderIndividualIdentifier</a>	Provider Individual Identifier DTO.
<a href="#">ProviderLink</a>	ProviderLink DTO. This is a link between an Individual and a Location.
<a href="#">ProviderLinkIdentifier</a>	Provider Link Identifier DTO.
<a href="#">ProviderLocation</a>	ProviderLocation DTO.

Name	Description
<a href="#">ProviderLocationIdentifier</a>	Provider Location Identifier DTO. Examples are NHSD Site ID or STS Location ID.
<a href="#">ProviderOrganisation</a>	ProviderOrganisation DTO.
<a href="#">ProviderOrganisationIdentifier</a>	Provider Organisation Identifier DTO.
<a href="#">ProviderUser</a>	
<a href="#">ResponsibleUser</a>	
<a href="#">SearchResult</a>	SearchResult DTO.
<a href="#">ServiceInterface</a>	ServiceInterface DTO.
<a href="#">ServiceOperationFault</a>	Represents a general failure within the service operation
<a href="#">Sex</a>	Sex DTO.
<a href="#">UserBase</a>	Abstract base class for identifying an end user.

**Complex Type: Address****Description**

Address DTO.

**Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AddressSiteName	string	0..1	Gets or sets the site name.
ContactPurposeCode	string	0..1	Gets or sets the Code for the contact purpose.
ContactPurposeDisplayName	string	0..1	Gets or sets the DisplayName for the contact purpose.
ContactPurposeUri	string	0..1	Gets or sets the NHSD URI for the contact purpose.
Elevation	int	0..1	Gets or sets the geocoded elevation in metres.
FlatNumber	string	0..1	Gets or sets the unit number.
FlatType	string	0..1	Gets or sets the flat type reference item display name.
Latitude	double	0..1	Gets or sets the geocoded latitude in degrees.
LevelNumber	string	0..1	Gets or sets the level number.
LevelType	string	0..1	Gets or sets the level type.
Longitude	double	0..1	Gets or sets the geocoded longitude in degrees.
LotNumber	string	0..1	Gets or sets the lot number.
PostalDeliveryNumber	string	0..1	Gets or sets the postal delivery number.
PostalDeliveryType	string	0..1	Gets or sets the postal delivery type.
Postcode	string	0..1	Gets or sets the postcode.
State	string	0..1	Gets or sets the state or territory.
StreetName	string	0..1	Gets or sets the street name.
StreetNumber	string	0..1	Gets or sets the street number.
StreetSuffix	string	0..1	Gets or sets the street suffix.
StreetType	string	0..1	Gets or sets the street type.
Suburb	string	0..1	Gets or sets the suburb, town or locality.
UnstructuredAddressLine	string	0..1	Gets or sets the unstructured address line.

**Complex Type: AddressSearch****Description**

Address search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AddressSiteName	string	0..1	Gets or sets the site name.
ContactPurposeCode	string	0..1	Gets or sets the code representing the address purpose.
FlatNumber	string	0..1	Gets or sets the unit number.
FlatType	string	0..1	Gets or sets the unit type.
Latitude	string	0..1	Gets or sets the geocoded latitude.
LevelNumber	string	0..1	Gets or sets the level number.
LevelType	string	0..1	Gets or sets the level type.
Longitude	string	0..1	Gets or sets the geocoded longitude.
LotNumber	string	0..1	Gets or sets the lot number.
PostalDeliveryNumber	string	0..1	Gets or sets the postal delivery number.
PostalDeliveryType	string	0..1	Gets or sets the postal delivery type.
Postcode	string	0..1	Gets or sets the postcode.
State	string	0..1	Gets or sets the state or territory.
StreetName	string	0..1	Gets or sets the street name.
StreetNumber	string	0..1	Gets or sets the street number.
StreetSuffix	string	0..1	Gets or sets the street suffix.
StreetType	string	0..1	Gets or sets the street type.
Suburb	string	0..1	Gets or sets the suburb, town or locality.
UnstructuredAddressLine	string	0..1	Gets or sets the unstructured address line.

**Complex Type: AreaOfInterest****Description**

AreaOfInterest DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REQUIRED</small> SEQUENCE		1..1	
Areas	ArrayOfGeographicalArea	1..1	Gets or sets the list of geographical areas.
Classifications	ArrayOfLocationClassification	1..1	Gets or sets the list of location classifications.
Code	string	0..1	Gets or sets the URI allocated by NEPS to identify this area of interest definition.
Description	string	1..1	Gets or sets the description of the area of interest.
ExtraMembers	ArrayOfProviderIdentifierSearch	1..1	Gets or sets the list of identifiers of extra members. The identifiers must be NHSD URI for individuals (NHSDI) or NHSD URI for organisations (NHSDO).
Occupations	ArrayOfIndividualOccupation	1..1	Gets or sets the list of individual occupations.



**Complex Type: ChannelCarrier****Description**

Channel Carrier DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelCarrierCode	string	0..1	Gets or sets the Code for the channel carrier.
ChannelCarrierDisplayName	string	0..1	Gets or sets the Display Name for the channel carrier.
ChannelCarrierURI	string	1..1	Gets or sets the NHSD URI for the channel carrier.
Preference	long	1..1	Gets or sets the The relative preference of this carrier among those supported for delivery of a particular payload scheme via a particular channel type to a particular organisation or location..
ProprietaryValues	ArrayOfProprietaryValue	1..1	Gets or sets the list of proprietary values for the channel carrier.

**Complex Type: ChannelType****Description**

Channel type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelCarriers	ArrayOfChannelCarrier	0..1	Gets or sets, if applicable, a list of messaging vendors through which the provider location can receive documents over this channel. Examples are Argus, HealthLink or Medical Objects. Not applicable for fax or post.
ChannelTypeCode	string	0..1	Gets or sets the NHSD Code for this channel type.
ChannelTypeDescription	string	0..1	Gets or sets the NHSD Description for this channel type.
ChannelTypeUri	string	0..1	Gets or sets the NHSD URI for the channel type.
DocumentFormatDisplayName	string	0..1	Gets or sets the NHSD Display name for the format in which the document must be sent when delivering using channel type.
DocumentFormatUri	string	0..1	Gets or sets the NHSD Uri for the format in which the document must be sent when delivering using channel type.
PayloadScheme	string	1..1	Gets or sets the Payload Scheme URI for the format in which the document must be sent when delivering using this channel type.
Preference	long	1..1	Gets or sets the degree to which the provider location prefers this channel to other channels for the same document type.
ProprietaryValues	ArrayOfProprietaryValue	1..1	Gets or sets the list of proprietary values for the channel type.

**Complex Type: Delegate****Description**

Delegate DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the delegate.
Intermediary	<a href="#">Intermediary</a>	1..1	Gets or sets the intermediary associated with the delegate.
IsActive	boolean	1..1	Gets or sets a value indicating whether the delegate is active (available for use).
Name	string	1..1	Gets or sets the name of the delegate.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the delegate, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the delegate.

**Complex Type: DocumentChannelPreference****Description**

DocumentChannelPreference DTO. This is based on the NEPS DCP model.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ChannelTypes	ArrayOfChannelType	1..1	Gets or sets the list of channels by which the provider location can accept this document type. Examples are SMD, Email, Proprietary, Fax or Post.
DocumentChannelPreferenceId	string	0..1	Gets or sets the document channel preference ID from NEPS.
DocumentTypeCode	string	1..1	Gets or sets the code for the document type.
DocumentTypeDisplayName	string	1..1	Gets or sets the Display Name for the document type.
DocumentTypeOid	string	1..1	Gets or sets the NHSD Root OID for the document type code.
DocumentTypeUri	string	1..1	Gets or sets the NHSD URI for the document type that this record expresses a preference for delivery of.
LocationId	string	0..1	Gets or sets the primary identifier of the target provider location.
OrganisationId	string	0..1	Gets or sets the primary identifier of the target provider organisation.

**Complex Type: DocumentType****Description**

Document type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code that identifies this type of document.
Description	string	1..1	Gets or sets the name of the document type.

**Complex Type: ElectronicContact****Description**

ElectronicContact DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
ContactPurposeCode	string	0..1	Gets or sets the Code for the contact purpose.
ContactPurposeDisplayName	string	0..1	Gets or sets the DisplayName for the contact purpose.
ContactPurposeUri	string	0..1	Gets or sets the Uri for the contact purpose.
ContactTypeCode	string	0..1	Gets or sets the code for the contact type.
ContactTypeDisplayName	string	0..1	Gets or sets the DisplayName for the contact type.
ContactTypeUri	string	0..1	Gets or sets the NHSD URI for the Contact Type.
Preference	long	0..1	Indicates whether this is the preferred method of contacting the individual or organisation.
Value	string	0..1	Gets or sets the Actual number or address that can be used to contact the individual or organisation.

**Complex Type: FaultBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Referenced By**

Name	Type
<a href="#">InvalidRequestFault</a>	Complex Type
<a href="#">ServiceOperationFault</a>	Complex Type

**Complex Type: GeographicalArea****Description**

GeographicalArea DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
Postcode	string	0..1	Gets or sets the postcode.
State	string	0..1	Gets or sets the state.
Suburb	string	0..1	Gets or sets the suburb.



**Complex Type: IndividualName****Description**

Individual Name DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
FamilyName	string	1..1	Gets or sets the family name of the individual.
GivenName	string	1..1	Gets or sets the given names of the individual, separated by spaces.
MiddleName	string	1..1	Gets or sets the middle name of the individual, separated by spaces.
Title	string	1..1	Gets or sets the titles of the individual, separated by spaces.

**Complex Type: IndividualNameAlias****Description**

Individual Name Alias DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
KnownAsCode	string	0..1	Gets or sets the Code of the 'known as' reference item..
KnownAsDisplayName	string	0..1	Gets or sets the Display Name of the 'known as' reference item.
KnownAsURI	string	1..1	Gets or sets the URI of the 'known as' reference item..
Value	string	1..1	Gets or sets the name by which the individual is known.

**Complex Type: IndividualOccupation****Description**

Individual Occupation DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:SEQUENCE</small>		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	0..1	Gets or sets the Code for the occupation.
DisplayName	string	0..1	Gets or sets the Display Name for the occupation.
URI	string	0..1	Gets or sets the URI for the occupation.

**Complex Type: InteractionRecord****Description**

InteractionRecord DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Delegate	<a href="#">Delegate</a>	1..1	Gets or sets the delegate associated with the interaction record.
OrganisationId	string	1..1	Gets or sets the primary identifier of the target organisation.
PayloadEncryptionCertificate	string	1..1	Gets or sets the payload encryption certificate in PEM format.
PayloadScheme	<a href="#">PayloadScheme</a>	1..1	Gets or sets the payload scheme associated with the interaction record.
ServiceEndpointUri	string	1..1	Gets or sets the service endpoint URI associated with the interaction record.
ServiceInterface	<a href="#">ServiceInterface</a>	1..1	Gets or sets the service interface associated with the interaction record.

**Complex Type: Intermediary****Description**

Intermediary DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Name	string	1..1	Gets or sets the name of the intermediary.
ServiceEndpointUri	string	1..1	Gets or sets the service endpoint URI of the intermediary.

**Complex Type: InvalidRequestFault****Description**


Represents a failure within the conditions defined to validate the request to the service operation.

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.
Messages	ArrayOfMessage	0..1	Gets or sets the set of messages associated with the fault.

**Complex Type: LocalUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
Domain	string	1..1	Gets or sets the name of the directory domain of the user within the local directory.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Login	string	1..1	Gets or sets the name of the login (account) of the user within the local directory.

**Complex Type: LocationClassification****Description**

LocationClassification DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	0..1	Gets or sets the Code for the healthcare service type.
DisplayName	string	0..1	Gets or sets the Display Name for the healthcare service type.
URI	string	0..1	Gets or sets the URI for the healthcare service type.



**Complex Type: Message****Description**

Represents a generic message, generally to provide additional contextual information, such as assisting with how a response message is interpreted.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Code	string	0..1	Gets or sets the code associated with the message.
Data	anyType	0..1	Gets or sets any additional data associated with the message.
Description	string	1..1	Gets or sets a detailed description of the message content.
Level	<a href="#">MessageLevel</a>	1..1	Gets or sets the level associated with the message.
Messages	ArrayOfMessage	1..1	Gets or sets the set of messages associated with the message.
Origin	string	1..1	Gets or sets a string identifying the origin of the message, such as "HIPS" or "PCEHR".

**Complex Type: OrganisationName****Description**

Organisation Name DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
KnownAsCode	string	0..1	Gets or sets the Code of the known as' reference item.
KnownAsDisplayName	string	0..1	Gets or sets the Display Name of the known as' reference item.
KnownAsURI	string	0..1	Gets or sets the URI of the known as' reference item.
Value	string	0..1	Gets or sets the organisation name itself.

**Complex Type: PayloadPackaging****Description**

Payload packaging DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Description	string	1..1	Gets or sets a descriptive name for the payload packaging mechanism.

**Complex Type: PayloadScheme****Description**

Payload scheme DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the payload scheme.
DocumentType	<a href="#">DocumentType</a>	1..1	Gets or sets the document type associated with the payload scheme.
IsActive	boolean	1..1	Gets or sets a value indicating whether the payload scheme is active (available for use).
Name	string	1..1	Gets or sets the name of the payload scheme.
PayloadPackaging	<a href="#">PayloadPackaging</a>	1..1	Gets or sets the payload packaging associated with the payload scheme.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the payload scheme, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the payload scheme.

**Complex Type: PersistedDTOBase****Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.

**Referenced By**

Name	Type
<a href="#">Address</a>	Complex Type
<a href="#">ChannelCarrier</a>	Complex Type
<a href="#">ChannelType</a>	Complex Type
<a href="#">Delegate</a>	Complex Type
<a href="#">DocumentChannelPreference</a>	Complex Type
<a href="#">DocumentType</a>	Complex Type
<a href="#">ElectronicContact</a>	Complex Type
<a href="#">IndividualName</a>	Complex Type
<a href="#">IndividualNameAlias</a>	Complex Type
<a href="#">IndividualOccupation</a>	Complex Type
<a href="#">InteractionRecord</a>	Complex Type
<a href="#">Intermediary</a>	Complex Type
<a href="#">LocationClassification</a>	Complex Type
<a href="#">OrganisationName</a>	Complex Type
<a href="#">PayloadPackaging</a>	Complex Type
<a href="#">PayloadScheme</a>	Complex Type
<a href="#">ProviderIdentifier</a>	Complex Type
<a href="#">ProviderIdentifierStatus</a>	Complex Type
<a href="#">ProviderIdentifierType</a>	Complex Type
<a href="#">ProviderIndividual</a>	Complex Type
<a href="#">ProviderLink</a>	Complex Type
<a href="#">ProviderLocation</a>	Complex Type
<a href="#">ProviderOrganisation</a>	Complex Type
<a href="#">ServiceInterface</a>	Complex Type
<a href="#">Sex</a>	Complex Type

**Complex Type: ProprietaryValue****Description**

ProprietaryValue DTO. This is an extension property (name and value pair) used to store jurisdiction-specific proprietary messaging information. An example is Queensland Health's STS addressing data.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Name	string	0..1	Gets or sets the name of the property.
Value	string	0..1	Gets or sets the value of the property.

**Complex Type: ProviderIdentifier****Derived By**Extending [PersistedDTOBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Referenced By**

Name	Type
<a href="#">ProviderIndividualIdentifier</a>	Complex Type
<a href="#">ProviderLinkIdentifier</a>	Complex Type
<a href="#">ProviderLocationIdentifier</a>	Complex Type
<a href="#">ProviderOrganisationIdentifier</a>	Complex Type

**Complex Type: ProviderIdentifierSearch****Description**

Provider Identifier search criteria DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
TypeCode	string	0..1	Gets or sets the identifier type code.
Value	string	0..1	Gets or sets the identifier value.



**Complex Type: ProviderIdentifierStatus****Description**

Provider Identifier Status DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.

**Complex Type: ProviderIdentifierType****Description**

Provider Identifier Type DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the code.
Description	string	1..1	Gets or sets the description associated with the code.

**Complex Type: ProviderIndividual****Description**

ProviderIndividual DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Aliases	ArrayOfIndividualNameAlias	0..1	Gets or sets the list of aliases for the individual.
Contacts	ArrayOfElectronicContact	0..1	Gets or sets the list of electronic contact details.
DateOfBirth	dateTime	0..1	Gets or sets the date of birth of the individual.
Identifiers	ArrayOfProviderIndividualIdentifier	0..1	Gets or sets the provider identifiers, including national and local identifiers.
IndividualId	string	0..1	Gets or sets the primary identifier of the individual.
IsInSubscription	boolean	0..1	Gets or sets a value indicating whether the individual is subscribed.
Name	<a href="#">IndividualName</a>	0..1	Gets or sets the list of names for the individual.
Occupations	ArrayOfIndividualOccupation	0..1	Gets or sets the list of provider types, specialties and specialisations.
Sex	<a href="#">Sex</a>	0..1	Gets or sets the sex of the individual.

**Complex Type: ProviderIndividualIdentifier****Description**

Provider Individual Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderLink****Description**

ProviderLink DTO. This is a link between an Individual and a Location.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
IndividualId	string	0..1	Gets or sets the primary identifier of the individual.
LinkIdentifiers	ArrayOfProviderLinkIdIdentifier	0..1	Gets or sets the list of identifiers of this link.
LocationId	string	0..1	Gets or sets the primary identifier of the location.

**Complex Type: ProviderLinkIdentifier****Description**

Provider Link Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderLocation****Description**

ProviderLocation DTO.

**Derived By**

Extending [PersistedDTOTBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Addresses	ArrayOfAddress	0..1	Gets or sets the list of addresses.
Classifications	ArrayOfLocationClassification	0..1	Gets or sets the list of organisation types, service types and service units.
Contacts	ArrayOfElectronicContact	0..1	Gets or sets the list of electronic contact details.
Identifiers	ArrayOfProviderLocationIdentifier	0..1	Gets or sets the list of identifiers for this location, including national and local identifiers.
LocationDescription	string	0..1	Gets or sets the location description.
LocationId	string	0..1	Gets or sets the primary identifier of this location.
LocationName	string	0..1	Gets or sets the location name.
OrganisationId	string	0..1	Gets or sets the primary identifier of the organisation to which this location belongs.

**Complex Type: ProviderLocationIdentifier****Description**

Provider Location Identifier DTO. Examples are NHSD Site ID or STS Location ID.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.



**Complex Type: ProviderOrganisation****Description**

ProviderOrganisation DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Identifiers	ArrayOfProviderOrganisationIdentifier	0..1	Gets or sets the list of identifiers for the organisation, including national and local identifiers.
IsInSubscription	boolean	0..1	Gets or sets a value indicating whether the individual is subscribed.
LegalName	string	0..1	Gets or sets the organisation legal name.
OrganisationDescription	string	0..1	Gets or sets the organisation description.
OrganisationId	string	0..1	Gets or sets the primary identifier for this organisation.
OrganisationNames	ArrayOfOrganisationName	0..1	Gets or sets the list of additional organisation names with codes describing how the organisation name is used.

**Complex Type: ProviderOrganisationIdentifier****Description**

Provider Organisation Identifier DTO.

**Derived By**

Extending [ProviderIdentifier](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Status	<a href="#">ProviderIdentifierStatus</a>	1..1	Gets or sets the status of the provider identifier.
Type	<a href="#">ProviderIdentifierType</a>	1..1	Gets or sets the type of the provider identifier.
Value	string	1..1	Gets or sets the identifier value.

**Complex Type: ProviderUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.
FamilyName	string	1..1	Gets or sets the family name of the user.
GivenNames	string	0..1	Gets or sets the given name(s) of the user.
Hpil	string	1..1	Gets or sets the health provider identifier - individual identifying the provider user.

**Complex Type: ResponsibleUser****Derived By**Extending [UserBase](#)**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>sequence</small> SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Complex Type: SearchResult****Description**

SearchResult DTO.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
DocumentChannelPreferences	ArrayOfDocumentChannelPreference	1..1	Gets or sets the list of document channel preferences.
Individuals	ArrayOfProviderIndividual	1..1	Gets or sets the list of individuals.
InteractionRecords	ArrayOfInteractionRecord	1..1	Gets or sets the list of interaction records.
Links	ArrayOfProviderLink	1..1	Gets or sets the list of links.
Locations	ArrayOfProviderLocation	1..1	Gets or sets the list of locations.
Organisations	ArrayOfProviderOrganisation	1..1	Gets or sets the list of organisations.

**Complex Type: ServiceInterface****Description**

ServiceInterface DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
AdditionalComments	string	1..1	Gets or sets any additional comments associated with the service interface.
Name	string	1..1	Gets or sets the name of the service interface.
PriorityNumber	int	1..1	Gets or sets an integer value representing the priority associated with the service interface, where higher priorities are represented by higher values.
QualifiedIdentifier	string	1..1	Gets or sets the unique identifier of the service interface.

**Complex Type: ServiceOperationFault****Description**

Represents a general failure within the service operation

**Derived By**

Extending [FaultBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
FaultIdentifier	string	0..1	Gets or sets a unique value that can be used to correlate the fault between the provider and the consumer.
Message	string	0..1	Gets or sets the description of the fault.

**Complex Type: Sex****Description**

Sex DTO.

**Derived By**

Extending [PersistedDTOBase](#)

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>REF</small> SEQUENCE		1..1	
Timestamp	dateTime	0..1	Gets or sets a date and time value representing the modification timestamp of the entity within its persistence store.
Code	string	1..1	Gets or sets the DisplayName of the "Code" Reference Item.
DisplayName	string	1..1	Gets or sets the DisplayName of the "Gender" Reference Item.
URI	string	1..1	Gets or sets the DisplayName of the "URI" Reference Item.



**Complex Type: UserBase****Description**

Abstract base class for identifying an end user.

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
AccessingHpio	string	1..1	Gets or sets the HPO-I of the health provider organisation upon whose behalf the end user is accessing P2P.

**Referenced By**

Name	Type
<a href="#">LocalUser</a>	Complex Type
<a href="#">ProviderUser</a>	Complex Type
<a href="#">ResponsibleUser</a>	Complex Type

### 2.10.3 Simple Types: SubscriptionService

#### Simple Types

Name	Description
<a href="#">MessageLevel</a>	Represents the level of a message returned by a service operation.
<a href="#">ResponseStatus</a>	Represents the outcome of a service operation.

**Simple Type: MessageLevel****Description**

Represents the level of a message returned by a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No level has been defined.
Information	The message contains information.
Warning	The message contains a warning.
Error	The message contains an error description.

**Simple Type: ResponseStatus****Description**

Represents the outcome of a service operation.

**Derived By**

Restricting string

**Enumeration**

Value	Description
None	No status has been defined.
OK	The service operation was successful.
Warning	The service operation may have been successful, with associated warning messages.