

Messaging Engine v1.5.3

API Reference

|  |  |
| --- | --- |
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# DOCUMENT CONTROL

## Version History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Changed By | Summary of Changes |
| 0.1 | 09/05/2014 | Adam Naylor | Initial draft |
| 0.2 | 19/05/2014 | Adam Naylor | Incorporated Andria Turner’s comments (14/05/14) |
|  |  |  |  |
|  |  |  |  |

# Related documents

|  |  |
| --- | --- |
| Document |  |
|  |  |

# Overview

This document describes how to use and interact with the SOAP interface for NHS choices’ 111 Messaging Engine v1.5.3. This document assumes you are familiar with SOAP and related web service technologies.

## Intended audience

This document is intended as a reference for any and all users of the service.

## Prerequisites

In order to use the Messaging Engine it is required that the following conditions are met:

* You have a SOAP client capable of communicating with the service.
* You have network access to the service from your client’s location.
* You have been provided with valid credentials to authenticate with the service.

# Authentication

The Messaging Engine service uses simple authentication to authenticate and authorise incoming requests. Each operation carries an Authentication node, inside which is a Username and Password node. These fields are used by the service to authorise and authenticate the request and will reject any invalid credentials with a [failed authentication response](#_Authentication_failure_response).

See the appendix for example messages that include the authentication node.

# Supported Operations

This section lists the operations that the service provides, along with documentation about which arguments the operations require, which are optional, and the response data that might be returned. The operations are listed in the order they appear in the WSDL document.

Jump to:

* [IsOOH](#_IsOOH)
* [SubmitToCallQueueCallback](#_SubmitToCallQueueCallback)
* [SubmitToCallQueueEnquiry](#_SubmitToCallQueueEnquiry)
* [VerifyPatient](#_VerifyPatient)
* [LocateServices](#_LocateServices)
* [CheckOOHAvailable](#_CheckOOHAvailable)
* [SubmitHaSCToService](#_SubmitHaSCToService)
* [CacheOOHAvailable](#_CacheOOHAvailable)

## IsOOH

This operation allows a consumer to enquire if a DateTime is regarded as being out of hours.

### Arguments

|  |  |  |
| --- | --- | --- |
| Argument | Description | Required |
| Disposition | The [disposition code](#_Disposition_codes) of the enquiry. | Yes |
| Time | An optional [time](#_DateTime) to check if that time is in hours or not. When omitted the operation assumes the current time. | No |

### Response

A string response of InHours or OutOfHours.

### Errors

* Invalid Disposition
* Invalid date

## SubmitToCallQueueCallback

This operation is used to submit an enquiry into a call queue.

### Arguments

|  |  |  |
| --- | --- | --- |
| Argument | Description | Required |
| CaseDetails | The full details of the case being submitted. |  |
| PatientDetails | The patient’s details. |  |

### Response

### Errors

* Call back requests are disabled

## SubmitToCallQueueEnquiry

This operation is used to submit a callback request into a call queue.

### Arguments

|  |  |  |
| --- | --- | --- |
| Argument | Description | Required |
| CaseDetails | The full details of the case being submitted. | ? |
| PatientDetails | The patient’s details | ? |

### Response

### Errors

* Call back requests are disabled

## VerifyPatient

This operation is used to identify a patient and discover their Repeat Caller status.

### Arguments

|  |  |  |
| --- | --- | --- |
| Argument | Description | Required |
| Forename | The forename of the patient to identify. | Yes |
| Surname | The surname of the patient to identify. | Yes |
| DateOfBirth | The [date of birth](#_Date) of the patient being identified. | Yes |
| Gender | The [gender](#_Gender) of the patient. | No |
| Postcode | The postcode of the patient. | No |

### Response

A response listing if a GP endpoint was found, whether or not the patient was able to be identified with the supplied information and a repeat caller status.

### Errors

## LocateServices

This operation is used to discover medical services for a given disposition within a specific area.

### Arguments

|  |  |  |
| --- | --- | --- |
| Argument | Description | Required |
| Age | The age of the person searching. This will alter the result based on the age of patients covered by the service. | No |
| Gender | The gender of the patient. Certain services only serve female patients for example. | No |
| Postcode | The postcode from which to perform the search. | Yes |
| SearchDistance | The distance in miles to search from the provided postcode. Larger values will take longer to process. Defaults to 10 miles. Minimum entry is 10 miles. | No |
| DispositionCode | The disposition code of the enquiry. | Yes |
| SymptomGroup |  | Yes |
| SymptomDiscriminationList |  | Yes |

### Response

A list of results each containing an id, name, address, postcode, distance from search, date the entry was last updated, a Boolean flag to denote if the service is open 24 hours, and the type of service (an id and name pair).

An empty FindServicesResponse node will be returned if no services are found.

### Errors

## CheckOOHAvailable

This operation returns the service details for an out of hours if available. If the request is made within hours no further processing is performed and no services are returned.

### Arguments

|  |  |  |
| --- | --- | --- |
| Arguments | Description | Required |
| PostCode | The postcode of the search. | Yes |
| Time | The time of the enquiry. Will assume the current time if omitted. | No |
| SearchDistance | The distance from the postcode to search. | No |
| Disposition | The disposition code of the enquiry. | Yes |

### Response

A string response of OOHNotAvailable if no service is found.

### Errors

## SubmitHaSCToService

This operation is used to submit a completed HaSC to an endpoint.

### Arguments

|  |  |  |
| --- | --- | --- |
| Argument | Description | Required |
| CaseDetails | The case details of the HaSC journey being submitted. | Yes |
| PatientDetails | The details of the patient filling out the HaSC. | Yes |
| ServiceDetails | The details of the service being submitted to. Including id, name, and odsCode. | Yes |
| SendToRepeatCaller | A Boolean flag to treat this submission as a candidate for the repeat caller service. | Yes |

### Response

An overall status of Failed\_call\_to\_gp\_webservice if the submission to the external service failed.

If repeat caller submission was requested a RepeatCallerStatus will be returned.

### Errors

## CacheOOHAvailable

This operation provides an asyncronus call that instructs the ESB to retrieve out of hours service details for a given postcode in preperation for any future service calls. It is intended to be used as a non blocking call in the event the CheckOOHAvailable operation is to be called for a specifc postcode in the near future.

### Arguments

|  |  |  |
| --- | --- | --- |
| Argument | Description | Required |
| PostCode | The postcode to search for and cache. | Yes |
| Time | The time at which to base the search. If omitted the current time will be used. | No |
| SearchDistance | Distance in miles from the postcode to include for searching. | No |

### Response

A string value of true if the cache was successful.

### Errors

## Error Responses

The service may return errors from any of the supported operations.

If the error is due to an issue with the request data provided by the client, the fault code will be Client.

If the error occurs within the Messaging Engine itself the fault code will be Server. The request should be reattempted.

If the operations fails due to an issue with a service the Messaging Engine depends on then it will return a response with fault code Server but a message of ExternalServiceException.

For an example server fault response see the [appendix](#_Fault_response).

# Appendix

## Abbreviations

|  |  |
| --- | --- |
| Abbreviation |  |
| ESB | Enterprise Service Bus |
| API | Application Programming Interface |
| SOAP | Simple Object Access Protocol |
| WSDL | Web Services Description Language |
| OOH | Out Of Hours |
| HaSC | Health and Symptom Checker |
| ODS | [Organisation Data Service](http://www.connectingforhealth.nhs.uk/systemsandservices/data/ods) |

## DataTypes

This section lists common data types that the service utilises and the expected values and formats they use.

### DateTime

Most DateTimes in the system follow the numeric format of yyyy-MM-dd'T'HH:mm:ss where yyyy = year, MM = month, dd = day, HH = 24 hour, mm = minutes, and ss = seconds.

### Date

If a DateTime field can be specified as just a date (ex. DateOfBirth on VerifyPatient) then it will generally follow the numeric format of yyyy-MM-ss where yyyy = year, MM = month and ss = seconds.

### Time

If a DateTime field can be specified as just a time (ex. IsOOH) then it will generally follow the numeric format of HH:mm:ss where HH = 24 hour, mm = minutes and ss = seconds.

### Disposition codes

The accepted values for a disposition code are:

* GpToday
* GpUrgent

### Gender

The accepted values for gender are:

* Not\_Known
* Male
* Female
* Not\_Specified

### ODS code

This is an Organisation Data Service code further information is available on the [Connecting for Health website](http://www.connectingforhealth.nhs.uk/systemsandservices/data/ods).

## Example request messages

### IsOOH

<soapenv:Envelope xmlns:soapenv=**"http://schemas.xmlsoap.org/soap/envelope/"** xmlns:ser=**"services.nhsd.messages"**>

<soapenv:Header/>

<soapenv:Body>

<ser:IsOOH>

<Authentication>

<Username>**ProvidedUsername**</Username>

<Password>**ProvidedPassword**</Password>

</Authentication>

<IsOOHRequest>

<Disposition>**GpUrgent**</Disposition>

</IsOOHRequest>

</ser:IsOOH>

</soapenv:Body>

</soapenv:Envelope>

### SubmitToCallQueueCallback

<soapenv:Envelope xmlns:soapenv=**"http://schemas.xmlsoap.org/soap/envelope/"** xmlns:ser=**"services.nhsd.messages"**>

<soapenv:Header/>

<soapenv:Body>

<ser:SubmitToCallQueueCallback>

<Authentication>

<Username>**ProvidedUsername**</Username>

<Password>**ProvidedPassword**</Password>

</Authentication>

<SubmitToCallQueueRequest>

<CaseDetails>

<!--Optional:-->

<ExternalReference>**test ref**</ExternalReference>

<!--Optional:-->

<Source>**test source**</Source>

<DispositionCode>**19**</DispositionCode>

<DispositionName> **test DispositionName**</DispositionName>

<!--Optional:-->

<CaseSummary>

<!--1 or more repetitions:-->

<SummaryItem>

<Name>**testItem1**</Name>

<!--Optional:-->

<Caption>**testItem1 caption**</Caption>

<!--Optional:-->

<Values>

<!--Zero or more repetitions:-->

<Value>**testItem1 Value 1**</Value>

<Value>**testItem1 Value 2**</Value>

</Values>

</SummaryItem>

<SummaryItem>

<Name>**testItem2**</Name>

<!--Optional:-->

<Caption>**testItem2 caption**</Caption>

<!--Optional:-->

<Values>

<!--Zero or more repetitions:-->

<Value>**testItem2 Value 1**</Value>

<Value>**testItem2 Value 2**</Value>

<Value>**testItem2 Value 3**</Value>

</Values>

</SummaryItem>

</CaseSummary>

</CaseDetails>

<PatientDetails>

<Forename>**test1forename**</Forename>

<Surname>**tSurname**</Surname>

<DateOfBirth>

<dateOfBirth>**1980-01-01**</dateOfBirth>

</DateOfBirth>

<Gender>**Male**</Gender>

<!--Optional:-->

<NhsNumber>**12345**</NhsNumber>

<InformantType>**Self**</InformantType>

<!--Optional:-->

<InformantName>**InformantName**</InformantName>

<CurrentAddress>

<!--Optional:-->

<StreetAddressLine1>**CA StreetAddressLine1**</StreetAddressLine1>

<!--Optional:-->

<StreetAddressLine2>**CA StreetAddressLine2**</StreetAddressLine2>

<!--Optional:-->

<StreetAddressLine3>**CA StreetAddressLine3**</StreetAddressLine3>

<!--Optional:-->

<StreetAddressLine4>**CA StreetAddressLine4**</StreetAddressLine4>

<!--Optional:-->

<StreetAddressLine5>**CA StreetAddressLine5**</StreetAddressLine5>

<PostalCode>**SP1 3XX**</PostalCode>

</CurrentAddress>

<!--Optional:-->

<HomeAddress>

<!--Optional:-->

<StreetAddressLine1>**HA StreetAddressLine1**</StreetAddressLine1>

<!--Optional:-->

<StreetAddressLine2>**HA StreetAddressLine2**</StreetAddressLine2>

<!--Optional:-->

<StreetAddressLine3>**HA StreetAddressLine3**</StreetAddressLine3>

<!--Optional:-->

<StreetAddressLine4>**HA StreetAddressLine4**</StreetAddressLine4>

<!--Optional:-->

<StreetAddressLine5>**HA StreetAddressLine5**</StreetAddressLine5>

<PostalCode>**SP1 3XX**</PostalCode>

</HomeAddress>

<!--Optional:-->

<GpPractice>

<!--Optional:-->

<Name>**GpPractice Name**</Name>

<!--Optional:-->

<Address>

<!--Optional:-->

<StreetAddressLine1>**GP StreetAddressLine1**</StreetAddressLine1>

<!--Optional:-->

<StreetAddressLine2>**GP StreetAddressLine2**</StreetAddressLine2>

<!--Optional:-->

<StreetAddressLine3>**GP StreetAddressLine3**</StreetAddressLine3>

<!--Optional:-->

<StreetAddressLine4>**GP StreetAddressLine4**</StreetAddressLine4>

<!--Optional:-->

<StreetAddressLine5>**GP StreetAddressLine5**</StreetAddressLine5>

<PostalCode>**SP1 3NW**</PostalCode>

</Address>

<!--Optional:-->

<Telephone>**01722 123123**</Telephone>

<!--Optional:-->

<ODS>**ODStest**</ODS>

</GpPractice>

<EmailAddress>**example@somewhere.nhs.uk**</EmailAddress>

<!--Optional:-->

<TelephoneNumber>**01722 123123**</TelephoneNumber>

</PatientDetails>

</SubmitToCallQueueRequest>

</ser:SubmitToCallQueueCallback>

</soapenv:Body>

</soapenv:Envelope>

### SubmitToCallQueueEnquiry

<soapenv:Envelope xmlns:soapenv=**"http://schemas.xmlsoap.org/soap/envelope/"** xmlns:ser=**"services.nhsd.messages"**>

<soapenv:Header/>

<soapenv:Body>

<ser:SubmitToCallQueueEnquiry>

<Authentication>

<Username>**ProvidedUsername**</Username>

<Password>**ProvidedPassword**</Password>

</Authentication>

<SubmitToCallQueueRequest>

<CaseDetails>

<!--Optional:-->

<ExternalReference>**test ref**</ExternalReference>

<!--Optional:-->

<Source>**test source**</Source>

<DispositionCode>**19**</DispositionCode>

<DispositionName>**test disposition**</DispositionName>

<!--Optional:-->

<CaseSummary>

<!--1 or more repetitions:-->

<SummaryItem>

<Name>**testitem1**</Name>

<!--Optional:-->

<Caption>**caption**</Caption>

<!--Optional:-->

<Values>

<!--Zero or more repetitions:-->

<Value>**test value 1**</Value>

</Values>

</SummaryItem>

</CaseSummary>

<!--Optional:-->

<Provider>**ProviderName**</Provider>

</CaseDetails>

<PatientDetails>

<!--Optional:-->

<Forename>**test forename**</Forename>

<!--Optional:-->

<Surname>**test surname**</Surname>

<DateOfBirth>

<!--You have a CHOICE of the next 3 items at this level-->

<dateOfBirth>**1980-01-01**</dateOfBirth>

</DateOfBirth>

<Gender>**Male**</Gender>

<!--Optional:-->

<NhsNumber>**12345**</NhsNumber>

<InformantType>**Self**</InformantType>

<!--Optional:-->

<InformantName>**InformantName**</InformantName>

<!--Optional:-->

<CurrentAddress>

<!--Optional:-->

<StreetAddressLine1>**CA1**</StreetAddressLine1>

<!--Optional:-->

<StreetAddressLine2>**CA2**</StreetAddressLine2>

<!--Optional:-->

<StreetAddressLine3>**CA3**</StreetAddressLine3>

<!--Optional:-->

<StreetAddressLine4>**CA4**</StreetAddressLine4>

<!--Optional:-->

<StreetAddressLine5>**CA5**</StreetAddressLine5>

<PostalCode>**SO153SE**</PostalCode>

</CurrentAddress>

<!--Optional:-->

<HomeAddress>

<!--Optional:-->

<StreetAddressLine1>**HA1**</StreetAddressLine1>

<!--Optional:-->

<StreetAddressLine2>**HA2**</StreetAddressLine2>

<!--Optional:-->

<StreetAddressLine3>**HA3**</StreetAddressLine3>

<!--Optional:-->

<StreetAddressLine4>**HA4**</StreetAddressLine4>

<!--Optional:-->

<StreetAddressLine5>**HA5**</StreetAddressLine5>

<PostalCode>**SO153SE**</PostalCode>

</HomeAddress>

<!--Optional:-->

<GpPractice>

<!--Optional:-->

<Name>**GpPractice Name**</Name>

<!--Optional:-->

<Address>

<!--Optional:-->

<StreetAddressLine1>**GP1**</StreetAddressLine1>

<!--Optional:-->

<StreetAddressLine2>**GP2**</StreetAddressLine2>

<!--Optional:-->

<StreetAddressLine3>**GP3**</StreetAddressLine3>

<!--Optional:-->

<StreetAddressLine4>**GP4**</StreetAddressLine4>

<!--Optional:-->

<StreetAddressLine5>**GP5**</StreetAddressLine5>

<PostalCode>**SO153SE**</PostalCode>

</Address>

<!--Optional:-->

<Telephone>**02380555555**</Telephone>

<!--Optional:-->

<ODS>**ODSTest**</ODS>

</GpPractice>

<EmailAddress>**test@test.com**</EmailAddress>

<!--Optional:-->

<TelephoneNumber>**02380555555**</TelephoneNumber>

</PatientDetails>

</SubmitToCallQueueRequest>

</ser:SubmitToCallQueueEnquiry>

</soapenv:Body>

</soapenv:Envelope>

### VerifyPatient

<soap:Envelope xmlns:soap=**"http://schemas.xmlsoap.org/soap/envelope/"** xmlns:xsi=**"http://www.w3.org/2001/XMLSchema-instance"** xmlns:xsd=**"http://www.w3.org/2001/XMLSchema"**>

<soap:Body>

<VerifyPatient xmlns=**"services.nhsd.messages"**>

<Authentication xmlns=**""**>

<Username>**ProvidedUsername**</Username>

<Password>**ProvidedPassword**</Password>

</Authentication>

<IdentifyPatientRequest xmlns=**""**>

<Forename>**GivenName1\_ORQ\_ETH\_Training\_025**</Forename>

<Surname>**FamilyName\_ORQ\_ETH\_Training\_025**</Surname>

<DateOfBirth>**1993-11-11**</DateOfBirth>

<Gender>**Female**</Gender>

<Postcode>**BS6 7QU**</Postcode>

</IdentifyPatientRequest>

</VerifyPatient>

</soap:Body>

</soap:Envelope>

### LocateServices

<soapenv:Envelope xmlns:soapenv=**"http://schemas.xmlsoap.org/soap/envelope/"** xmlns:ser=**"services.nhsd.messages"**>

<soapenv:Header/>

<soapenv:Body>

<ser:LocateServices>

<Authentication>

<Username>**ProvidedUsername**</Username>

<Password>**ProvidedPassword**</Password>

</Authentication>

<FindServicesRequest>

<Age>**21**</Age>

<Gender>**Male**</Gender>

<Postcode>**WC2H 9BD**</Postcode>

<!--Optional:-->

<SearchDistance>**30**</SearchDistance>

<DispositionCode>**2**</DispositionCode>

<SymptomGroup>**1055**</SymptomGroup>

<!--1 or more repetitions:-->

<SymptomDiscriminatorList>**4002**</SymptomDiscriminatorList>

</FindServicesRequest>

</ser:LocateServices>

</soapenv:Body>

</soapenv:Envelope>

### CheckOOHAvailable

<soapenv:Envelope xmlns:soapenv=**"http://schemas.xmlsoap.org/soap/envelope/"** xmlns:ser=**"services.nhsd.messages"**>

<soapenv:Header/>

<soapenv:Body>

<ser:CheckOOHAvailable>

<Authentication>

<Username>**ProvidedUsername**</Username>

<Password>**ProvidedPassword**</Password>

</Authentication>

<CheckOOHAvailabilityRequest>

<PostCode>**n1 1ee**</PostCode>

<Time>**2013-08-21T06:01:24**</Time>

<Disposition>**GPUrgent**</Disposition>

</CheckOOHAvailabilityRequest>

</ser:CheckOOHAvailable>

</soapenv:Body>

</soapenv:Envelope>

### SubmitHaSCToService

<soap:Envelope xmlns:soap=**"http://schemas.xmlsoap.org/soap/envelope/"** xmlns:xsi=**"http://www.w3.org/2001/XMLSchema-instance"** xmlns:xsd=**"http://www.w3.org/2001/XMLSchema"**>

<soap:Body>

<SubmitHaSCToService xmlns=**"services.nhsd.messages"**>

<Authentication xmlns=**""**>

<Username>**ProvidedUsername**</Username>

<Password>**ProvidedPassword**</Password>

</Authentication>

<SubmitEncounterToServiceRequest xmlns=**""**>

<CaseDetails>

<ExternalReference>**a4336d5e-e7cb-44b4-b357-6dbded88bf48**</ExternalReference>

<Source>**D and V**</Source>

<DispositionCode>**46**</DispositionCode>

<DispositionName>**Dia and Vom**</DispositionName>

<CaseSummary>

<SummaryItem>

<Name>**time\_of\_day**</Name>

<Caption>**Time of day**</Caption>

<Values>

<Value/>

</Values>

</SummaryItem>

<SummaryItem>

<Name>**caffeine\_level\_today**</Name>

<Caption>**Caffeine level today**</Caption>

<Values>

<Value/>

</Values>

</SummaryItem>

<SummaryItem>

<Name>**Coffee\_Jar**</Name>

<Caption>**Coffee jar**</Caption>

<Values>

<Value/>

</Values>

</SummaryItem>

<SummaryItem>

<Name>**Tea\_Tin**</Name>

<Caption>**Tea tin**</Caption>

<Values>

<Value/>

</Values>

</SummaryItem>

<SummaryItem>

<Name>**mood**</Name>

<Caption>**Mood**</Caption>

<Values>

<Value/>

</Values>

</SummaryItem>

<SummaryItem>

<Name>**SendToRepeatCaller**</Name>

<Caption/>

<Values>

<Value>**true**</Value>

</Values>

</SummaryItem>

</CaseSummary>

<Provider>**ProviderName**</Provider>

</CaseDetails>

<PatientDetails>

<Forename>**Billy Bob**</Forename>

<Surname>**Thornton**</Surname>

<DateOfBirth>

<yearOfBirth>**1980**</yearOfBirth>

</DateOfBirth>

<Gender>**Male**</Gender>

<InformantType>**Brother**</InformantType>

<CurrentAddress>

<PostalCode>**PO6 7UO**</PostalCode>

</CurrentAddress>

<GpPractice>

<Name>**GP Practice Test**</Name>

<Address>

<PostalCode>**GP3 6FF**</PostalCode>

</Address>

<ODS>**SOMODS**</ODS>

</GpPractice>

<TelephoneNumber>**01234567**</TelephoneNumber>

</PatientDetails>

<ServiceDetails>

<id>**520**</id>

<name>**Some Test Surgery**</name>

<odsCode>**NTPAN04**</odsCode>

</ServiceDetails>

<SendToRepeatCaller>**false**</SendToRepeatCaller>

</SubmitEncounterToServiceRequest>

</SubmitHaSCToService>

</soap:Body>

</soap:Envelope>

### CacheOOHAvailable

<soapenv:Envelope xmlns:soapenv=**"http://schemas.xmlsoap.org/soap/envelope/"** xmlns:ser=**"services.nhsd.messages"**>

<soapenv:Header/>

<soapenv:Body>

<ser:CacheOOHAvailable>

<Authentication>

<Username>**ProvidedUsername**</Username>

<Password>**ProvidedPassword**</Password>

</Authentication>

<CacheOOHAvailabilityRequest>

<PostCode>**n1 1ee**</PostCode>

</CacheOOHAvailabilityRequest>

</ser:CacheOOHAvailable>

</soapenv:Body>

</soapenv:Envelope>

## Example response messages

### IsOOH

#### Successful

<soap:Envelope xmlns:soap=**"http://schemas.xmlsoap.org/soap/envelope/"**>

<soap:Body>

<ns2:IsOOHResponse xmlns:ns2=**"services.nhsd.messages"**>

<OohStatus>**OutOfHours**</OohStatus>

</ns2:IsOOHResponse>

</soap:Body>

</soap:Envelope>

### SubmitToCallQueueCallback

[Currently disabled]

### SubmitToCallQueueEnquiry

[Currently disabled]

### VerifyPatient

#### Patient identified

<soap:Envelope xmlns:soap=**"http://schemas.xmlsoap.org/soap/envelope/"**>

<soap:Body>

<ns2:VerifyPatientResponse xmlns:ns2=**"services.nhsd.messages"**>

<IdentifyPatientResponse>

<GPEndpointStatus>**No\_GP\_endpoint\_listed**</GPEndpointStatus>

<OverallStatus>**Patient\_identified**</OverallStatus>

<RepeatCallerStatus>**Undetermined**</RepeatCallerStatus>

<Patient/>

</IdentifyPatientResponse>

</ns2:VerifyPatientResponse>

</soap:Body>

</soap:Envelope>

#### Patient not identified

<soap:Envelope xmlns:soap=**"http://schemas.xmlsoap.org/soap/envelope/"**>

<soap:Body>

<ns2:VerifyPatientResponse xmlns:ns2=**"services.nhsd.messages"**>

<IdentifyPatientResponse>

<GPEndpointStatus>**No\_GP\_endpoint\_listed**</GPEndpointStatus>

<OverallStatus>**Unable\_to\_identify\_patient**</OverallStatus>

<RepeatCallerStatus>**Insufficient\_Information**</RepeatCallerStatus>

</IdentifyPatientResponse>

</ns2:VerifyPatientResponse>

</soap:Body>

</soap:Envelope>

### LocateServices

#### Pass

<soap:Envelope xmlns:soap=**"http://schemas.xmlsoap.org/soap/envelope/"**>

<soap:Body>

<ns2:LocateServicesResponse xmlns:ns2=**"services.nhsd.messages"**>

<FindServicesResponse>

<Results>

<id>**0**</id>

<name>**University College Hospital**</name>

<address>**University College Hospital,235 Euston Road,London**</address>

<postcode>**NW1 2BU**</postcode>

<distanceFromSearch>**0.98247415**</distanceFromSearch>

<obsolete>**false**</obsolete>

<updateTime>**2014-05-12T11:54:57.521+01:00**</updateTime>

<openAllHours>**false**</openAllHours>

<serviceType>

<id>**0**</id>

<name>**University College Hospital**</name>

</serviceType>

</Results>

<Results>

<id>**0**</id>

<name>**St Thomas'**</name>

<address>**Westminster Bridge Road,Westminster Bridge Road,London**</address>

<postcode>**SE1 7EH**</postcode>

<distanceFromSearch>**1.0851781**</distanceFromSearch>

<obsolete>**false**</obsolete>

<updateTime>**2014-05-12T11:54:57.552+01:00**</updateTime>

<openAllHours>**false**</openAllHours>

<serviceType>

<id>**0**</id>

<name>**St Thomas'**</name>

</serviceType>

</Results>

</FindServicesResponse>

</ns2:LocateServicesResponse>

</soap:Body>

</soap:Envelope>

### CheckOOHAvailable

#### Not available

<soap:Envelope xmlns:soap=**"http://schemas.xmlsoap.org/soap/envelope/"**>

<soap:Body>

<ns2:CheckOOHAvailableResponse xmlns:ns2=**"services.nhsd.messages"**>

<CheckOOHAvailabilityResponse>

<ServiceStatus>**OOHNotAvailable**</ServiceStatus>

</CheckOOHAvailabilityResponse>

</ns2:CheckOOHAvailableResponse>

</soap:Body>

</soap:Envelope>

### SubmitHaSCToService

#### Failed to call service

<soap:Envelope xmlns:soap=**"http://schemas.xmlsoap.org/soap/envelope/"**>

<soap:Body>

<ns2:SubmitHaSCToServiceResponse xmlns:ns2=**"services.nhsd.messages"**>

<SubmitEncounterToServiceResponse>

<OverallStatus>**Failed\_call\_to\_gp\_webservice**</OverallStatus>

<RepeatCallerStatus>**Undetermined**</RepeatCallerStatus>

</SubmitEncounterToServiceResponse>

</ns2:SubmitHaSCToServiceResponse>

</soap:Body>

</soap:Envelope>

### CacheOOHAvailable

#### Success

<soap:Envelope xmlns:soap=**"http://schemas.xmlsoap.org/soap/envelope/"**>

<soap:Body>

<ns2:CacheOOHAvailableResponse xmlns:ns2=**"services.nhsd.messages"**>

<CacheOOHAvailabilityResponse>

<Success>**true**</Success>

</CacheOOHAvailabilityResponse>

</ns2:CacheOOHAvailableResponse>

</soap:Body>

</soap:Envelope>

### Authentication failure response

<soap:Envelope xmlns:soap=**"http://schemas.xmlsoap.org/soap/envelope/"**>

<soap:Body>

<soap:Fault>

<faultcode>**soap:Client**</faultcode>

<faultstring>**Invalid Username or password. Invalid Username or password.**</faultstring>

</soap:Fault>

</soap:Body>

</soap:Envelope>

### Fault response

<soap:Envelope xmlns:soap=**"http://schemas.xmlsoap.org/soap/envelope/"**>

<soap:Body>

<soap:Fault>

<faultcode>**soap:Server**</faultcode>

<faultstring>**An error has occured processing the request.**</faultstring>

</soap:Fault>

</soap:Body>

</soap:Envelope>