

Business Services Authority

Community Pharmacy

Advanced Service Specification - NHS Smoking Cessation Service (SCS)

Developer Guide to the NHS Business Services Authority API for smoking cessation claims

ChangeLog

Version Control	Date	Purpose
0.1	26 Nov 2021	Initial Draft
1.0	9 Feb 2022	Updated as per latest version
1.1	16 May 2022	Minor Fixes and Updated Error Message Format
2.0	27 May 2022	New API for NRT Product list, Allow multiple NRT Product and Update Forbidden error format
2.1	30 Nov 2022	Allow special charaters for PATIENT_FULL_NAME and PATIENT_ADDRESS,Scenario for already declared claim while creating claim.

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NHS Smoking Cessation Service

Use this service to claim payment for the provision of the NHS Community Pharmacy Smoking Cessation Service.

Document Background

This document is intended to provide pharmacy clinical service platform providers with the information necessary to submit details of service provisions to the NHS Business Services Authority (NHS BSA), to pre-populate claims to be made by community pharmacy providers.

API Connectivity

Connection to the NHS BSA API has the following criteria, as patient data is present and being transmitted:

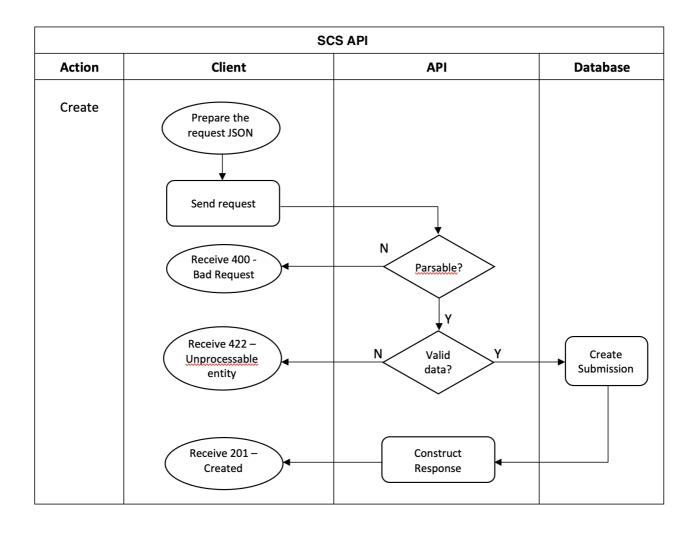
- Over HTTPS on port 443
- Using TLSv1.2 only
- Authentication
 - o IP whitelisting

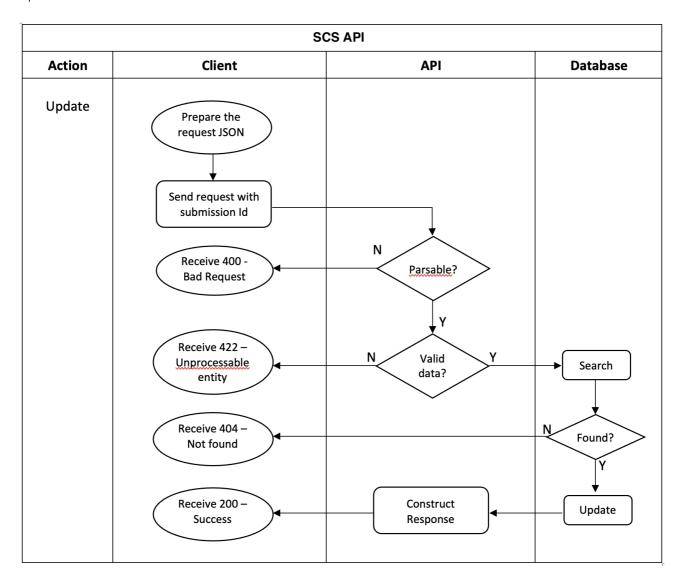
Current test endpoints

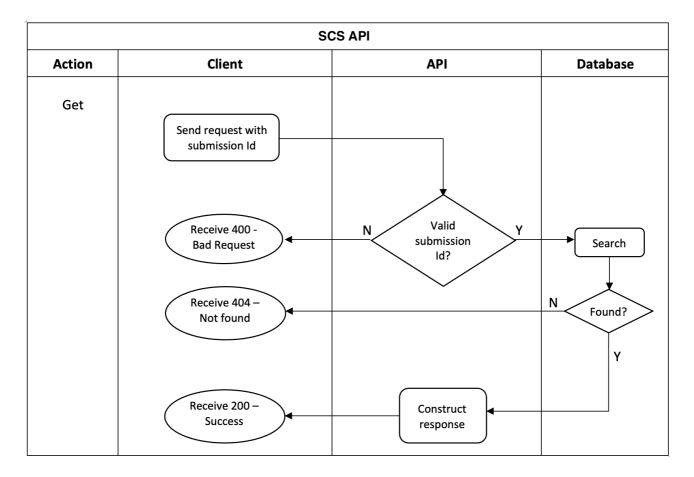
- POST : https://stg.api.scs.pharmacy.mys.nhsbsa.nhs.uk/v1/claims
- GET: https://stg.api.scs.pharmacy.mys.nhsbsa.nhs.uk/v1/claims/{{ID}}
- PUT : https://stg.api.scs.pharmacy.mys.nhsbsa.nhs.uk/v1/claims/{{ID}}
- DELETE: https://stg.api.scs.pharmacy.mys.nhsbsa.nhs.uk/v1/claims/{{ID}}

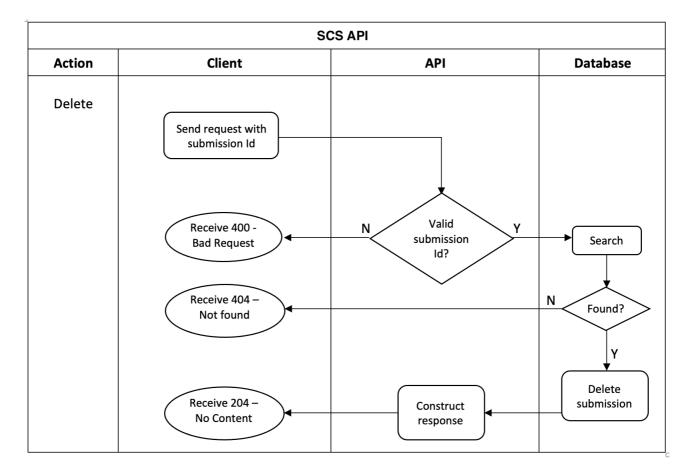
API Access Process Flow

Create Process Flow









Developer guide to Create a new submission

Step 1: Gather your materials

You will need the following to follow through this walkthrough:

Field	Mandatory / Optional	Туре	Description
PLATFORM_DEPOSIT_ID	М	String	A string that uniquely identifies this claim. Each platform will be provided with a pattern to use. For example, PharmOutcomes uses the pattern PEM-nnnnnnnnn and Sonar uses the pattern SON-nnnnnnnn to uniquely identify this deposit in audits and CRUD operations. Max. size 255. For example XXX-0000000012334
CLAIM_YEAR_MONTH	M	String	Year and month for which this submission belongs to in yyyy-MM format. For example 2021-06.
PATIENT_FULL_NAME	M	String	The full name of the person in text representation, length to be 60. Regex for format [$\r \$]+
PATIENT_DOB	М	String	The date of birth of the person in yyyy-MM-dd format
PATIENT_GENDER	0	String	The person's stated gender. Any value from Male, Female, Indeterminate, Unknown
PATIENT_ADDRESS	0	Array	Person's usual place of residence, and where relevant temporary and correspondence addresses. Entered as array of line1, line2, line3. Upto 5 lines. Regex for format [\r\n\t\S]+
PATIENT_POSTCODE	0	String	The person's postcode
PATIENT_NHSNO	М	String	The patient's NHS Number (not non-England national identifiers). If the NHS Number is not available, provide a category mentioned in Annex: Non NHS Number . Valid NHS number by common bsa validation. Size must be 10.
PATIENT_GPODS	O	String	The ODS code of the patient's GP surgery (not mandatory). This can be the ODS code of the practice and not of the branch surgery. Size max. 10.
REFERRAL_DATE	M	String	The date of referral, Standardised format yyyy-MM-dd (e.g. 2021-08-27)
REFERRER_ODS	М	String	The identifier/ODS code of the referring organisation. NHS data dictionary :- Organisation Data Service Codes. Size max. 10.
CLAIMANT_ODS	М	String	The Organisational Data Service (ODS) code of the pharmacy provider who provided the service and is therefore making the claim. Regex for format [A-Za-z0-9]{1,10}. For example FXXXX
ASSESSMENT_DATE	М	String	The date of assessment in yyyy-MM-dd format (e.g. 2021-08-27)
SERVICE_TYPE	М	String	The service that was provided. With one of the value mentioned in Annex: Service type
CONSULT_METHOD	М	String	The type of consultation conducted. With one of the value mentioned in Annex: Consultation method

QUIT_DATE	М	String	Designated 4 week quit date in yyyy-MM-dd format (e.g. 2021-08-27) Date is set in hospital or it is the date of discharge from hospital.
SMOKING_STATUS	М	String	Smoking Status On Hospital Discharge. SMOKER / NON_SMOKER values
NUMBER_OF_CONSULTATIONS	М	Numeric	No. of total consultations undertaken by community pharmacist including the initial and final consultation.
NUMBER_OF_SUPPORT_WEEKS	М	Numeric	Duration of community pharmacy support in weeks calculated from the "Date" of initial assessment.
4_WEEKS_POST_QUIT	0	String	An indication of whether the person has quit smoking for 4 weeks. YES / NO value
12_WEEKS_POST_QUIT	0	String	An indication of whether the person has quit smoking for 12 weeks. YES / NO value
PREGNANCY_STATUS	0	String	An indication of whether the person is pregnant. With one of the value mentioned in Annex: Pregnancy status
E_CIGARETTES_USED	0	String	A record of whether e-cigarettes are used. With one of the value mentioned in Annex: Electronic cigarettes use
NRT_USED	0	String	A record of whether nicotine replacement therapy (NRT) is currently used or prescribed in this appointment. With one of the value mentioned in Annex: NRT Usage
NRT_PRODUCT	0	Array	Consist (NRT) product details. Example mentioned in <u>Annex:</u> <u>Array of NRT Product</u>
SNOMED_CODE	М	String	Unique code identifier for the product
MEDICATION_NAME	М	String	Name of the medication used. Generic name.
QUANTITY_SUPPLIED	М	Numeric	The pack size of medication (e.g if the pack size of medication is 60 and you provide two packs, then QUANTITY_SUPPLIED will be 120) provided to the person.
PRESCRIPTION_CHARGE_EXEMPT	0	String	A record of whether the patient is exempt from NHS prescription charges. YES / NO value.
REFERRED_ORG_ODS	0	String	The identifier / ODS code, of the organisation being referred to.
ONWARD_REFERRAL_DATE	0	String	Date of onward referral. Format. yyyy-MM-dd

Step 2: Prepare the request JSON

The message containing the SCS claim information should follow json schema distributed by email.

The message must be utf-8 encoded. No XML messages are accepted.

```
{
   "platformDepositId":"{{PLATFORM_DEPOSIT_ID}}",
   "yearMonth":"{{CLAIM_YEAR_MONTH}}",
   "patient": {
        "fullName":"{{PATIENT_FULL_NAME}}",
        "dob":"{{PATIENT_DOB}}",
        "gender":"{{PATIENT_GENDER}}",
        "address":["{{PATIENT_ADDRESS}}",
```

```
"{{PATIENT_ADDRESS}}",
                "{{PATIENT_ADDRESS}}"
                ],
     "postcode":"{{PATIENT_POSTCODE}}}",
     "nhsNumber":"{{PATIENT_NHSNO}}}",
     "gpOdsCode":"{{PATIENT_GPODS}}"
},
"referralDate":"{{REFERRAL_DATE}}",
"referrerOdsCode":"{{REFERRER_ODS}}",
"orgOdsCode":"{{CLAIMANT_ODS}}",
"assessmentDate":"{{ASSESSMENT_DATE}}",
"serviceType":"{{SERVICE_TYPE}}}",
"consultationMethod":"{{CONSULT_METHOD}}",
"quitDate":"{{QUIT_DATE}}",
"smokingStatus":"{{SMOKING_STATUS}}",
"numberOfConsultations":{{NUMBER_OF_CONSULTATIONS}},
"numberOfSupportWeeks":{{NUMBER_OF_SUPPORT_WEEKS}},
"fourWeeksPostQuit":"{{4_WEEKS_POST_QUIT}}}",
"twelveWeeksPostQuit":"{{12_WEEKS_POST_QUIT}}",
"pregnancyStatus":"{{PREGNANCY_STATUS}}",
"eCigarettesUsed":"{{E_CIGARETTES_USED}}",
"nrtUsed":"{{NRT_USED}}}",
"nrtProducts":[{{NRT_PRODUCT}}},{{NRT_PRODUCT}}],
"prescriptionChargeExempt":"{{PRESCRIPTION_CHARGE_EXEMPT}}",
"referredOrgOds":"{{REFERRED_ORG_ODS}}",
"onwardReferralDate":"{{ONWARD_REFERRAL_DATE}}"
```

Step 3: Send the create request message

You can now prepare and make a POST call to the NHSBSA API with the following pattern.

Туре	Description
URL	https://stg.api.scs.pharmacy.mys.nhsbsa.nhs.uk/v1/claims
Http Headers	Content-Type: application/json, Accept: application/json, Cache-Control: no-cache
Body	JSON

Step 4: Receive your response

A successful response will be sent synchronously within 30 seconds [DN: To check] with an http code 201 (Created) and contain a JSON representation of an object in the body of the response, containing the claim ID.

Response Headers:

Туре	Description
Status	201 Created
Location	Location of the newly created resource. For example: https://stg.api.scs.pharmacy.mys.nhsbsa.nhs.uk/v1/claims/123e4567-e89b-12d3-a456-426614174000

Response Body:

```
"submissionId": "123e4567-e89b-12d3-a456-426614174000",
"platformDepositId":"XXX-01092029201922810",
"yearMonth":"2021-08",
"patient": {
     "fullName": "John Lewis",
     "dob": "1988-10-10",
     "gender":"Male",
     "address":["Test address", "test town"],
     "postcode":"XXX XXX",
     "nhsNumber":"0000000000",
     "gp0dsCode": "GXXXX"
},
"referralDate":"2021-08-02",
"referrerOdsCode":"RXXX",
"orgOdsCode":"FXXXX",
"assessmentDate":"2021-08-02",
"serviceType":"Initial",
"consultationMethod": "TELEPHONE",
"quitDate":"2021-08-30",
"smokingStatus":"NON_SMOKER",
"numberOfConsultations":2,
"numberOfSupportWeeks":2,
"fourWeeksPostQuit":"YES",
"twelveWeeksPostQuit":"NO",
"pregnancyStatus":"NO",
"eCigarettesUsed":"722499006",
"nrtUsed": "PRESCRIBED",
"nrtProducts":[
    "snomedCode":"xxxxx"
```

```
"medicationName":"Test Product2",
    "quantitySupplied":3
}
],
"prescriptionChargeExempt":"Yes",
"referredOrgOds":"RXXXXX",
"onwardReferralDate":"2021-08-25"
}
```

Other potential responses:

201: Created

Scenarios:

• If the claim for given yearMonth and ODS is already declared then the yearMonth is updated to current month and the claim is created.

403: Forbidden

Contains a JSON representation of the error response:

Scenarios:

- User is not allowed to perform certain operations or dont have access to certain resources.
- if PLATFORM_DEPOSIT_ID already exists (as it should be unique)
- if the submission period is out of the allowed range.

```
"error": {
    "message": "combined message",
    "details": [
        "error message 1",
        "error message 2"
    ]
}
```

500: Unexpected error

Contains a JSON representation of the error response:

```
"Error message in detail"
```

400: Bad Request

Contains a JSON representation of the error response:

Scenarios:

• Invalid request body, field names or field values

```
"error": {
    "message": "combined message",
    "details": [
        "error message 1",
        "error message 2"
    ]
}
```

422: Unprocessable Entity (json parseable but not conformant)

Contains a JSON representation of the error response.

Developer Guide to Update an existing submission

Step 1: Gather your materials

You will need the data described in section Developer guide to Create a new submission.

Apart from that the additional data needed:

Property	Description	
ID	ld of the submission. Generated when the record is saved. Included in the response of POST (create).	

Step 2: Prepare the request JSON

In the example below, we changed few details in the existing submission record with given ID.

```
"platformDepositId": "XXX-01092029201922810",
"yearMonth": "2021-08",
"patient": {
      "fullName":"John Other",
      "dob": "1988-10-10",
      "gender":"Male",
      "address":["Test address", "test town"],
      "postcode":"XXX XXX",
      "nhsNumber":"0000000000",
      "gp0dsCode": "GXXXX"
},
"referralDate":"2021-08-02",
"referrerOdsCode": "RXXX",
"orgOdsCode": "FXXXX",
"assessmentDate":"2021-08-02",
"serviceType":"Interim",
"consultationMethod":"TELEPHONE",
"quitDate":"2021-08-30",
"smokingStatus":"NON_SMOKER",
"numberOfConsultations":3,
"numberOfSupportWeeks":3,
"fourWeeksPostQuit":"YES",
"eCigarettesUsed":"722499006",
"nrtUsed": "PRESCRIBED",
"nrtProducts":[
  "snomedCode": "xxxxx",
  "medicationName":"Test Product2",
  "quantitySupplied":3
],
"prescriptionChargeExempt":"Yes",
"referred0rg0ds":"RXXXX",
"onwardReferralDate": "2021-08-25"
```

Step 3: Send the update request message

You can now prepare and make a PUT call to the NHSBSA API with the following pattern.

Type Description	
------------------	--

URL	https://stg.api.scs.pharmacy.mys.nhsbsa.nhs.uk/v1/claims/{{ID}}}
Http Headers	Content-Type: application/json, Accept: application/json, Cache-Control: no-cache
Body	JSON representation prepared in Step 2 above

Step 4: Receive your response

A successful response will be sent synchronously within 30 seconds [DN: To check] with an http code 200 (OK) and contain a JSON representation of the updated object in the body of the

response:

```
"submissionId": "{{ID}}}",
   "platformDepositId":"XXX-01092029201922810",
   "yearMonth":"2021-08",
   "patient": {
         "fullName":"John Other",
         "dob": "1988-10-10",
         "gender": "Male",
         "address":["Test address", "test town"],
         "postcode":"XXX XXX",
         "nhsNumber":"0000000000",
         "gp0dsCode": "GXXXX"
  },
   "referralDate": "2021-08-02",
   "referrerOdsCode":"RXXX",
   "orgOdsCode":"FXXXX",
  "assessmentDate":"2021-08-02",
   "serviceType":"Interim",
   "consultationMethod": "TELEPHONE",
   "quitDate":"2021-08-30",
   "smokingStatus":"NON_SMOKER",
   "numberOfConsultations":3,
   "numberOfSupportWeeks":3,
   "fourWeeksPostQuit":"YES",
   "eCigarettesUsed":"722499006",
   "nrtUsed": "PRESCRIBED",
   "nrtProducts":[
    "snomedCode":"xxxxx",
     "medicationName":"Test Product2",
     "quantitySupplied":3
   }
   "prescriptionChargeExempt":"Yes",
   "referred0rg0ds":"RXXXX",
   "onwardReferralDate": "2021-08-25"
}
```

Other potential responses:

403: Forbidden

Contains a JSON representation of the error response:

Scenarios:

• User is not allowed to perform certain operations or dont have access to certain resources.

500: Unexpected error

Contains a JSON representation of the error response:

```
"Error message in detail"
```

400: Bad Request

Contains a JSON representation of the error response:

Scenarios:

• Invalid request body, field names or field values

```
"error": {
    "message": "combined message",
    "details": [
        "error message 1",
        "error message 2"
    ]
}
```

422: Unprocessable Entity (json parseable but not conformant)

Contains a JSON representation of the error response.

Scenarios:

- Cannot change the CLAIMANT_ODS
- Cannot change the PLATFORM_DEPOSIT_ID
- Cannot change the CLAIM_YEAR_MONTH

```
"error": {
    "message": "combined message",
    "details": [
         "error message 1",
         "error message 2"
    ]
}
```

404: Not Found

Contains a JSON representation of the error response:

Scenarios:

```
"error": {
    "message": "combined message",
    "details": [
        "error message 1",
        "error message 2"
    ]
}
```

Developer Guide To Delete a submission

Step 1: Gather your materials

data needed:

Property	Description	
ID	Id of the submission. Generated when the record is saved. Included in the response of POST (create).	

Step 2: Send the delete request message

You can now prepare and make a DELETE call to the NHSBSA API with the following pattern.

Туре	Description
URL	https://stg.api.scs.pharmacy.mys.nhsbsa.nhs.uk/v1/claims/{{ID}}
Http Headers	Content-Type: application/json, Accept: application/json, Cache-Control: no-cache
Body	N/A

Step 3: Receive your response

A successful response will be sent synchronously within 30 seconds [DN: To check] with an http code 204 (No Content) and not contain a response body.

Other potential responses:

403: Forbidden

Contains a JSON representation of the error response:

Scenarios:

• User is not allowed to perform certain operations or dont have access to certain resources.

```
"error": {
    "message": "combined message",
    "details": [
         "error message 1",
         "error message 2"
    ]
}
```

500: Unexpected error

Contains a JSON representation of the error response:

```
"Error message in detail"
```

404: Not Found

Contains a JSON representation of the error response:

Scenarios:

```
"error": {
    "message": "combined message",
    "details": [
        "error message 1",
        "error message 2"
    ]
}
```

Developer Guide to Get a submission

Step 1: Gather your materials

You will need:

Property	Description	1
ID	Id of the SCS submission. Generated when the record is saved. Included in the response of POST (create).	

Step 2: Send the Get Submission Message

You can now prepare and make a GET call to the NHSBSA API with the following pattern.

Туре	Description
URL	https://stg.api.scs.pharmacy.mys.nhsbsa.nhs.uk/v1/claims/{{ID}}
Http Headers	Content-Type: application/json, Accept: application/json, Cache-Control: no-cache
Body	N/A

Step 3: Receive your response

A successful response will be sent synchronously within 30 seconds with an http code 200 (OK) with a response body.

```
"submissionId": "{{ID}}}",
"platformDepositId":"XXX-01092029201922810",
"yearMonth":"2021-08",
"patient": {
      "fullName":"John Other",
      "dob":"1988-10-10",
      "gender":"Male",
      "address":["Test address", "test town"],
      "postcode":"XXX XXX",
      "nhsNumber":"0000000000",
      "gp0dsCode": "GXXXX"
},
"referralDate":"2021-08-02",
"referrerOdsCode": "RXXX",
"orgOdsCode":"FXXXX",
"assessmentDate":"2021-08-02",
"serviceType":"Interim",
"consultationMethod": "TELEPHONE",
"quitDate":"2021-08-30",
"smokingStatus":"NON_SMOKER",
"numberOfConsultations":3,
"numberOfSupportWeeks":3,
"fourWeeksPostQuit":"YES",
"eCigarettesUsed":"722499006",
"nrtUsed": "PRESCRIBED",
"nrtProducts":[
  "snomedCode":"xxxxx",
  "medicationName":"Test Product2",
  "quantitySupplied":3
```

```
],
    "prescriptionChargeExempt":"Yes",
    "referredOrgOds":"RXXXX",
    "onwardReferralDate":"2021-08-25"
}
```

Other potential responses:

403: Forbidden

Contains a JSON representation of the error response:

Scenarios:

• User is not allowed to perform certain operations or dont have access to certain resources.

```
"error": {
    "message": "combined message",
    "details": [
        "error message 1",
        "error message 2"
    ]
}
```

500: Unexpected error

Contains a JSON representation of the error response:

```
"Error message in detail"
```

404: Not Found

Contains a JSON representation of the error response:

Scenarios:

```
"error": {
    "message": "combined message",
    "details": [
         "error message 1",
         "error message 2"
    ]
}
```

Developer Guide to Get list of NRT Products

Step 1: Gather your materials

You won't need any data because the API will return a list of all the products.

Step 2: Send the Get NRT Products Message

You can now prepare and make a GET call to the NHSBSA API with the following pattern.

Туре	Description
URL	https://stg.api.scs.pharmacy.mys.nhsbsa.nhs.uk/v1/nrtproducts
Http Headers	Content-Type: application/json, Accept: application/json, Cache-Control: no-cache
Body	N/A

Step 3: Receive your response

A successful response will be sent synchronously within 30 seconds with an http code 200 (OK) with a response body.

Other potential responses:

403: Forbidden

Contains a JSON representation of the error response:

Scenarios:

• User is not allowed to perform certain operations or dont have access to certain resources.

```
"error": {
    "message": "combined message",
    "details": [
        "error message 1",
        "error message 2"
    ]
}
```

500: Unexpected error

Contains a JSON representation of the error response:

```
"Error message in detail"
```

404: Not Found

Contains a JSON representation of the error response:

Scenarios:

```
"error": {
    "message": "combined message",
    "details": [
        "error message 1",
        "error message 2"
    ]
}
```

Annex: Non NHS Number

Code	Display
1111111111	Non-registered UK resident
222222222	Non UK resident
333333333	Data sharing consent not given
444444444	NHS number not found

Annex: Service type

Code	Display
INITIAL	Initial consultation
INTERIM	Interim consultation
FINAL	Final consultation

Annex: Consultation method

Code	Display	
FTF	Face to face communication	
TELEPHONE	Telephone	
TELEMEDICINE	Telemedicine	

Annex: NRT Usage

Code	Display
USED	NRT currently used
NOT_USED	NRT not currently used
PRESCRIBED	NRT prescribed at this appointment

Annex: Electronic cigarettes use

Code	Display
00000001	Electronic cigarettes not currently used
722499006	Electronic cigarette user
00000002	Not stated

Annex: Pregnancy status

Code	Display
YES	Pregnant
NO	Not pregnant
NOT_STATED	Not stated

Annex: Array of NRT Product

NRT_PRODUCT should consist of array of following object

```
"snomedCode":{{SNOMED_CODE}},

"medicationName":"{{MEDICATION_NAME}}",

"quantitySupplied":{{QUANTITY_SUPPLIED}}
}
```