



Australian Government
Services Australia

Web Services Australian Immunisation Register (AIR)

AIR Reference Data API

TECH.SIS.AIR.07

24 October 2025 Release

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Document Change Control

Date of Issue	Brief Description of Change
V1.0.0 – 7 December 2024	Implementation of AIR Reference Data API V1.0.0 Changes effective 7 December 2024
V.1.0.1 – 01 October 2024	Additional updates: <ul style="list-style-type: none">• Section 5.19 – antenatal indicator now based on age ranges• Section 5.20 – section added
V1.0.2 – 12 November 2024	Minor update – 7 December release <ul style="list-style-type: none">• Section 5.2.1 – Get the list of vaccine type mandatory vaccines<ul style="list-style-type: none">◦ Section added• Section 7 – API data elements and descriptions<ul style="list-style-type: none">◦ 5.21 added
V1.0.3 – 31 January 2025	Minor update – 31 January 2025 <ul style="list-style-type: none">• Section 5.15 – Get the list of vaccines allowable to record a medical contraindication<ul style="list-style-type: none">◦ Updated ‘Example response’• Section 5.22 – Get the list of antenatal indicator mandatory vaccines<ul style="list-style-type: none">◦ Added ‘Example response’• Section 7 – API data elements and descriptions<ul style="list-style-type: none">◦ 5.15 – Updated ‘Response Element’ and ‘Size/Value’◦ 5.22 – Added ‘Response Element’ and ‘Size/Value’
V1.0.4 – 2 June 2025	Minor update – 2 June 2025 <ul style="list-style-type: none">• Section 2 – Service Summary<ul style="list-style-type: none">◦ Notice of Integration (NOI) testing requirements
V1.0.5 – 20 October 2025	Minor update – 20 October 2025 <ul style="list-style-type: none">• Section 5.18 – Get the valid vaccine types in the AIR<ul style="list-style-type: none">◦ Example response
V1.0.6 – 20 October 2025	Minor update – 24 October 2025 <ul style="list-style-type: none">• Section 5.9 – Get the valid vaccine types in the AIR<ul style="list-style-type: none">◦ Example response

Associated Documents

The following table lists all documents that are relevant to this document:

Document Name	TECH.SIS
AIR Developers Guide	User Guide
AIR Vaccine Code Formats	User Guide

Document Name	TECH.SIS
AIR Message Code List	User Guide
AIR Web Services Change Guide	Change Guide
AIR Web Services Common Rules	TECH.SIS.AIR.01
AIR Record Encounter	TECH.SIS.AIR.02
AIR Planned Catch Up Date	TECH.SIS.AIR.03
AIR API Authorisation	TECH.SIS.AIR.04
AIR API Individual Details	TECH.SIS.AIR.05
AIR API Medical Exemptions	TECH.SIS.AIR.06

Definitions, Acronyms and Abbreviations

The following table provides a list of all terms, acronyms and abbreviations required to properly interpret the System Interface Specifications:

Acronym	Description
AIR	Australian Immunisation Register- A national register that records all vaccinations given to individuals of all ages.
AIR-WS	Australian Immunisation Register Web Service
API	Application Programming Interface
ATSI	Aboriginal and Torres Strait Islander Indicator identifies indigenous status of the individual as provided by the individual
B2B	Business to Business
CA	Client Adaptor - A suite of Application Programming Interfaces (API's) developed for online Medicare claiming (including AIR). The APIs are utilised at Health Care Locations (HCL) to interface between Client Systems and Medicare's systems using the latest web service channel. Client Adaptors are being replaced by the more modern B2B web services technology.
Catch up schedule	Catch up schedules are recorded on the Australian Immunisation Register (AIR) so that children or individuals may have an up-to-date status for family assistance payments purposes for the duration of the catch up schedule. Catch up schedules do not bring children or individuals up-to-date for immunisation purposes.
Claim	Group of one or more encounters. A claim will always have the same information provider but may have one or more different immunisation providers.
CS	Client System is a generic name for the software systems provided by a software developer used at Health Care Locations (HCL). Also known as Practice Management Software (PMS).
Date of service	The date entered on an Encounter Header form to record the immunisation date for all episodes for that encounter.
Encounter	A visit to a general practitioner or a vaccination provider where one or more episodes (vaccines) are administered.
Episode	An immunisation given to the individual by the vaccination provider. Each encounter will have at least one episode and may have up to five.
Health Care Location (HCL)	A Health Care Location is where the web services enabled software is located that is used by health professionals and administrators to send transmissions to the agency.

Health Care Organisation (HCO)	A Health Care Organisation is the entity registered in PRODA for B2B Web Service transmissions.
Health Systems Developer Portal	This secure platform (the portal) provides a gateway to access our licenced development material and API's, and to manage your applications and company details when on-boarding with Services Australia.
HTTP	The Hypertext Transfer Protocol is a stateless application-level protocol for distributed, collaborative, hypertext information systems.
ICT	Information and Communications Technology
Immunisation date	The date the immunisation was provided.
Immunisation provider	The provider who administered the vaccine to the individual.
Information payment	Eligible vaccination providers can get an information payment for completing a National Immunisation Program Schedule or a planned catch-up schedule for a child under 7 years old and recording it on the AIR. The information payments are up to \$6 per completed National Immunisation Program Schedule and \$6 per completed planned catch-up schedule for children under 7 years old.
Information provider	This is the provider who sent the information to the AIR. An information provider may be the same as an immunisation provider.
IRN	Individual Reference Number. A unique, identifying number for each person listed on a Medicare card. It appears to the left of each name on the Medicare card.
JSON	JavaScript Object Notation (JSON) - an open-standard file format that uses human-readable text to transmit data objects consisting of object-properties pairs and array data types (or any other serializable value).
Minor Id	The Minor Id is an identifier used by Services Australia. It is the identifier allocated to the location by the software developer (vendor) and is used to identify the transmission origin. The Minor Id is also known as the Customer Id, Location Id or Software Id.
NOI	Notice of Integration. For each Software Product Release a Software developer, in conjunction with Online Technical Support (OTS), performs a series of integration tests. If the integration tests are successful, the Software developer is issued with a Notice of Integration (NOI).
OTS	Online Technical Support
PMS	Practice Management Software/System is a generic name for the software systems used at HCL's. Also known as Client System (CS).
PRODA	The Provider Digital Access system that authenticates and manages identity for providers and organisations.
Receipt date	This is the date the information is received on the AIR.
REST	REST (Representational State Transfer) defines a set of architectural principles by which you can design Web services that focus on a system's resources, including how resource states are addressed and transferred over HTTP by a wide range of clients written in different languages.
RESTful	RESTful APIs enable the developer to develop any kind of web application having all possible CRUD (create, retrieve, update and delete) operations.
Software Instance	A Software Instance (SI) node represents an instance of an off-the-shelf software product or equivalent proprietary item of software.
Services Australia	Services Australia is an Australian Government agency within the Social Services portfolio. The agency, formerly known as the Department of Human Services, continues to deliver Medicare, Centrelink and Child Support payments and services
TECH.SIS	Technical System Interface Specification
the agency	Services Australia (the agency)
the portal	Refer to Health Systems Developer Portal

Vaccination provider	A medical practitioner or a person who is recognised by the Services Australia as a provider of vaccinations to individuals as per the <i>Australian Immunisation Register Act 2015</i> .
Web Service Request	A Web Service Request is a message sent from a Service Consumer to a Service Provider.
Web Service Response	A Web Service Response is a message returned from a Service Provider to a Service Consumer in response to a Web Service Request.
WS	Web Services are application components which enable the communications between the Client Systems and Services Australia ICT systems using the Web. Web Services is replacing the older Adaptor technology.
WS-Client	Web Service Client. An application or software that consumes a Web Service.
YAML	YAML Ain't Markup Language (YAML) - a human-readable data serialization language that is commonly used for configuration files, but could be used in many applications where data is being stored (e.g. debugging output) or transmitted (e.g. document headers). YAML is used to define data requirements within the web service request.

1 Introduction

This document forms part of the Web Services Licensed Material as referenced in the Interface Agreement. The Web Services Licensed Material includes guides, documents and other material.

For a complete list of other Web Services Licence Material associated with Web Services, refer to the document “*AIR Developers Guide*”.

1.1 Document Purpose

The purpose of this document is to provide software Developers with the information to develop software products to interface with Services Australia (the agency) and the AIR Web Services program.

This document provides technical information to assist software developers with the application of web services channel for immunisation notifications using the following AIR Web Services:

- AIR Reference Data API V1.0.0

1.2 Scope

The scope of this document is to describe the business rules for the Reference Data API function within the AIR channel.

1.3 Target Audience

The intended audience for this document includes software developers with an interest in integrating AIR Web Services into their product, including:

- IT Managers
- IT Architects and System Designers
- Business/Systems Analysts
- Software Developers (AIR only)

1.4 Legal, Privacy & Policy Requirements

When building your software product/s you should consider that end users, e.g. health professionals, have legal, privacy and policy requirements when dealing with their patients/individuals’ information. Below are some requirements.

Participating health professionals may utilise the services and information provided including personal information only in accordance with National (*Privacy Act 1988*, *Health Insurance Act 1973*, *Australian Immunisation Register Act 2015* and other relevant legislation), State or Territory legislation, Policy and Guidelines.

Participating health professionals are advised to verify that their intended use of services and information does not contravene any applicable legislation or regulations or is inconsistent with any applicable policy or guidance.

All transactions with AIR Web Services are recorded in the System Log by the Service Operator, Services Australia (the agency).

1.5 Pre-Requisites

The pre-requisites for the reader to understand this document are:

- A basic knowledge or familiarity of Web Services concepts and terms.
- A basic knowledge or familiarity of web based business applications.

1.6 Terminology

Refer to Definitions, Acronyms and Abbreviations for a list of Acronyms and Terms used in this document.

1.7 Changes

Please contact the Developer Liaison team at DeveloperLiaison@servicesaustralia.gov.au if you have any changes, or recommendations for this documentation.

2 Service Summary

The AIR Reference Data function allows certified software developers to retrieve AIR vaccines reference data on a real-time basis.

Notice of Integration (NOI) testing requirements:

For software developers building the current version (n) AIR application:

- they need to complete two specific test cases in their NOI testing:
 - software developers are required to demonstrate that they can access the relevant endpoints successfully to retrieve the data required.
 - they will also need to provide evidence of how their end-users retrieve reference data information from their application.
- These tests will be included in the developer's NOI test plan.

Note

- For software developers having obtained NOI credentials for the current version (n) AIR application and been granted exemptions from undertaking these two test cases:
 - if they wish to access this AIR Reference Data API, they will need to email Developer Liaison team at DeveloperLiaison@servicesaustralia.gov.au to request this API to be added to their production. No testing is required.
- 'Current version (n)': as per section 4 in 'Web Services Version Control Policy V2.0' published in the Health Systems Developer Portal, this refers to the latest available version.
For example, as of March 2025, for AIR Record Encounter, 'current version (n)' is V1.4.0.

3 Preconditions

In order to send this request the following conditions must be met:

- The organisation must have a valid **PRODA** organisation account with the associated permissions to transmit to AIR; and
- The CS Software must have a NOI for AIR Web Services applications.
- The software developers have successfully subscribed ‘AIR API – Reference Data’ product”.

4 Web Service Operation and Principles

4.1 Description

The AIR Web Services will provide a request-response based communication system. The users CS will initiate the communication by calling the required Web Service operation.

The Reference Data Web Service will process the Web Service request and return the requested data set.

4.2 Naming standards

Identical field names used in the other AIR APIs, such as Record Encounter, are re-used in full in this new API, such as 'vaccineFundingType', 'routeOfAdministration', etc.

Consistent keywords are used in this AIR API, such as 'allowable', 'mandatory', 'valid', 'code', and 'indicator'.

4.3 Path parameters

There is a distinction between path parameters and query parameters.

Path parameters are used to identify a specific resource or resources.

- Example:
`/air/immunisation/v1/refdata/vaccine/{vaccineCode}`

Query parameters are used to sort/filter those resources.

- Example: `/air/immunisation/v1/refdata/vaccine?vaccineCategoryCode=NIP`

4.4 Root nodes

The structures of root nodes are streamlined to enable compact payload format, so software developers can easily work with the data the JSON encodes,

For example, for the array called 'vaccines', it is clear that each element in the array is going to be a vaccine, and therefore that element doesn't need to be wrapped in a 'vaccine' tag.

Rather than the more verbose structure on the left, this API applies the structure on the right:

```
1  {
2    "vaccines": [
3      {
4        "vaccine": {
5          "vaccineCode": "PRPT",
6          "vaccineName": "ActHIB",
7          "vaccineCategoryCode": "STD",
8          "antigens": [
9            {
10               "antigen": {
11                 "antigenCode": "HBA",
12                 "antigenName": "HIB Sch"
13               }
14             }
15           ]
16         }
17     },
18   {
19     "vaccine": {
20       "vaccineCode": "ADT",
21       "vaccineName": "ADT Booster",
22       "vaccineCategoryCode": "STD",
23       "antigens": [
24         {
25           "antigen": {
26             "antigenCode": "DIP",
27             "antigenName": "Diphthe"
28           }
29         },
30         {
31           "antigen": {
32             "antigenCode": "TET",
33             "antigenName": "Tetanus"
34           }
35         }
36       ]
37     }
38   }
39 ]
40 }
```

```
1  [
2    "vaccines": [
3      {
4        "vaccine": {
5          "vaccineCode": "PRPT",
6          "vaccineName": "ActHIB",
7          "vaccineCategoryCode": "STD",
8          "antigens": [
9            {
10               "antigen": {
11                 "antigenCode": "HBA",
12                 "antigenName": "HIB Sch"
13               }
14             }
15           ],
16         }
17       {
18         "vaccineCode": "ADT",
19         "vaccineName": "ADT Booster",
20         "vaccineCategoryCode": "STD",
21         "antigens": [
22           {
23             "antigen": {
24               "antigenCode": "DIP",
25               "antigenName": "Diphthe"
26             }
27           },
28           {
29             "antigen": {
30               "antigenCode": "TET",
31               "antigenName": "Tetanus"
32             }
33           }
34         ]
35       }
36     ]
37   ]
38 ]
```

4.5 Caching

As all the ref data API requests will be GETs, the response headers are set accordingly so that the responses can be cached.

When a response is cached, a second request calling that endpoint may return the response from its local cache on an intermediate server, rather than calling the application to build the complete response again. Additionally, as an API user, software developers should set up caching for the AIR reference data returned in their own application, so that they can utilise the reference data without calling the API every time the data is used. It is recommended that software developers call the API endpoints on a set timeframe, daily or weekly, to capture any new change and to have the ability to clear their local cache and force a call of the API endpoints when required.

The cache time is set to one hour.

If a change is made to any of the AIR reference data, software developers only need to wait a maximum of one hour for it to take effect.

4.6 Future changes

If new requirements necessitate additional reference data items to be included, a new version (for example V1.0.2) will be created to add the new endpoints to the existing structure.

Software Developers using the old version can continue to call only the existing endpoints to retrieve only the existing reference data.

Software Developers will be advised to subscribe this new version, as the old one (for example V1.0.0) will not be up to date.

Backwards compatibility has been taken into consideration. It is likely that a new version of the API will contain all the same endpoints as the previous version, plus new additional endpoints. Software developers can complete its upgrade by integrating new additional endpoints without impacting their existing application.

It should be noted that a new API version is usually introduced as a result of changes to the AIR are required to be implemented.

It will be up to the software developers to decide if they would like to upgrade to the new version.

5 API calls

Please refer to '7 – API data elements and descriptions' for full details.

5.1 Get the list of allowable vaccines in the AIR

Endpoint: /air/immunisation/v1/refdata/vaccine

Below example is used to indicate the format. The actual response contains more array elements.

- Example response:

```
{  
  "vaccines": [  
    {  
      "vaccineCode": "COMIRN",  
      "vaccineName": "Pfizer Comirnaty",  
      "vaccineCategoryCode": "COV19",  
      "startDate": "2020-03-01",  
      "endDate": "9999-09-09",  
      "isMedicalContraindicationValid": "true",  
      "isVaccineBatchMandatory": "true",  
      "vaccineBatchMandatoryStartDate": "1996-01-01",  
      "vaccineBatchMandatoryEndDate": "9999-09-09",  
      "isVaccineFundingTypeMandatory": "true",  
      "vaccineFundingTypeMandatoryStartDate": "2024-03-01",  
      "vaccineFundingTypeMandatoryEndDate": "9999-09-09",  
      "isVaccineTypeMandatory": "true",  
      "vaccineTypeMandatoryStartDate": "2024-03-01",  
      "vaccineTypeMandatoryEndDate": "9999-09-09",  
      "isRouteOfAdministrationMandatory": "true",  
      "routeOfAdministrationMandatoryStartDate": "2024-03-01",  
      "routeOfAdministrationMandatoryEndDate": "9999-09-09",  
      "validVaccineFundingTypeCodes": "PRV,STP",  
      "validVaccineTypeCodes": "OTH",  
      "validRouteOfAdministrationCodes": "ID,IM",  
      "antigens": [  
        {  
          "antigenCode": "CPF",  
          "antigenName": "COVID-19",  
          "maximumDose": "20",  
          "isNaturalImmunityValid": "false"  
        }  
      ]  
    },  
    {  
      "vaccineCode": "ADT",  
      "vaccineName": "ADT Booster",  
      "startDate": "1996-01-01",  
      "endDate": "9999-09-09",  
      "isMedicalContraindicationValid": "true",  
      "isVaccineBatchMandatory": "true",  
      "vaccineBatchMandatoryStartDate": "2024-03-01",  
      "vaccineBatchMandatoryEndDate": "9999-09-09",  
      "isVaccineFundingTypeMandatory": "true",  
      "vaccineFundingTypeMandatoryStartDate": "2024-03-01",  
      "vaccineFundingTypeMandatoryEndDate": "9999-09-09",  
      "isVaccineTypeMandatory": "true",  
      "vaccineTypeMandatoryStartDate": "2024-03-01",  
      "vaccineTypeMandatoryEndDate": "9999-09-09",  
      "isRouteOfAdministrationMandatory": "true",  
      "routeOfAdministrationMandatoryStartDate": "2024-03-01",  
      "routeOfAdministrationMandatoryEndDate": "9999-09-09",  
      "validVaccineFundingTypeCodes": "PRV,STP",  
      "validVaccineTypeCodes": "OTH",  
      "validRouteOfAdministrationCodes": "ID,IM",  
      "antigens": [  
        {  
          "antigenCode": "CPF",  
          "antigenName": "COVID-19",  
          "maximumDose": "20",  
          "isNaturalImmunityValid": "false"  
        }  
      ]  
    }  
  ]  
};
```

```
"isVaccineTypeMandatory": "true",
"vaccineTypeMandatoryStartDate": "2024-03-01",
"vaccineTypeMandatoryEndDate": "9999-09-09",
"isRouteOfAdministrationMandatory": "true",
"routeOfAdministrationMandatoryStartDate": "2024-03-01",
"routeOfAdministrationMandatoryEndDate": "9999-09-09",
"validVaccineFundingTypeCodes": "AEN,NIP,PRV,STP",
"validVaccineTypeCodes": "NIP,OTH",
"validRouteOfAdministrationCodes": "ID,IM,PO,SC",
"antigens": [
  {
    "antigenCode": "DIP",
    "antigenName": "Diphtheria",
    "maximumDose": "20",
    "isNaturalImmunityValid": "true"
  },
  {
    "antigenCode": "TET",
    "antigenName": "Tetanus",
    "maximumDose": "20",
    "isNaturalImmunityValid": "true"
  }
]
```

5.2 Get the details for a specific vaccine code in the AIR

Endpoint: /air/immunisation/v1/refdata/vaccine/{vaccineCode}
e.g. /air/immunisation/v1/refdata/vaccine/COMIRN

- Example response:

The structure is the same as 5.1, but only the requested vaccine is returned in the array.

5.3 Get standard (NIP) vaccines in the AIR

Endpoint: /air/immunisation/v1/refdata/vaccine?vaccineCategoryCode=NIP

- Example response:

Same structure as 5.1, but only standard (NIP) vaccines will be returned in the array.

5.4 Get non-standard vaccines in the AIR

Endpoint: /air/immunisation/v1/refdata/vaccine?vaccineCategoryCode=NONST

- Example response:

Same structure as 5.1, but only non-standard vaccines will be returned in the array.

5.5 Get COVID-19 vaccines in the AIR

Endpoint: /air/immunisation/v1/refdata/vaccine?vaccineCategoryCode=COV19

- Example response:

Same structure as 5.1, but only COVID-19 vaccines will be returned in the array.

5.6 Get influenza vaccines in the AIR

Endpoint: /air/immunisation/v1/refdata/vaccine?vaccineCategoryCode=FLU

- Example response:

Same structure as 5.1, but only Influenza vaccines will be returned in the array.

5.7 Get the valid vaccine categories in the AIR

Endpoint: /air/immunisation/v1/refdata/vaccineCategory

- Example response:

```
{  
  "vaccineCategories": [  
    {  
      "vaccineCategoryCode": "NIP",  
      "vaccineCategoryDescription": "National Immunisation Program vaccines"  
    },  
    {  
      "vaccineCategoryCode": "COV19",  
      "vaccineCategoryDescription": "COVID-19 vaccines"  
    },  
    {  
      "vaccineCategoryCode": "FLU",  
      "vaccineCategoryDescription": "Influenza vaccines"  
    },  
    {  
      "vaccineCategoryCode": "NONST",  
      "vaccineCategoryDescription": "Non-standard vaccines"  
    }  
  ]  
}
```

5.8 Get the valid vaccine funding types in the AIR

Endpoint: /air/immunisation/v1/refdata/vaccineFundingType

- Example response:

```
{  
  "vaccineFundingTypes": [  
    {
```

```
"vaccineFundingTypeCode": "AEN",
"vaccineFundingTypeDescription": "Antenatal"
},
{
"vaccineFundingTypeCode": "NIP",
"vaccineFundingTypeDescription": "NIP/Commonwealth"
},
{
"vaccineFundingTypeCode": "PRV",
"vaccineFundingTypeDescription": "Private"
},
{
"vaccineFundingTypeCode": "STP",
"vaccineFundingTypeDescription": "State program"
}
]
```

5.9 Get the valid routes of administration in the AIR

Endpoint: /air/immunisation/v1/refdata/routeOfAdministration

- Example response:

```
{
"routesOfAdministration": [
{
"routeOfAdministrationCode": "ID",
"routeOfAdministrationDescription": "Intradermal"
},
{
"routeOfAdministrationCode": "IM",
"routeOfAdministrationDescription": "Intramuscular"
},
{
"routeOfAdministrationCode": "NS",
"routeOfAdministrationDescription": "Nasal"
},
{
"routeOfAdministrationCode": "PO",
"routeOfAdministrationDescription": "Oral"
},
{
"routeOfAdministrationCode": "SC",
"routeOfAdministrationDescription": "Subcutaneous"
}
]
}
```

5.10 Get the details of antigens in the AIR

Endpoint: /air/immunisation/v1/refdata/antigen

Below example is used to indicate the format. The actual response contains more array elements.

- Example response:

```
{  
  "antigens": [  
    {  
      "antigenCode": "DIP",  
      "antigenName": "Diphtheria",  
      "maximumDose": "20",  
      "isNaturalImmunityValid": "true"  
    },  
    {  
      "antigenCode": "TET",  
      "antigenName": "Tetanus",  
      "maximumDose": "20",  
      "isNaturalImmunityValid": "true"  
    }  
  ]  
}
```

5.11 Get the details of a specific antigen code in the AIR

Endpoint: /air/immunisation/v1/refdata/antigen/{antigenCode}

- Example response:

Same structure as 5.10, but only the requested antigen will be returned in the array.

5.12 Get the list of vaccines mandatory to report batch code

Endpoint: /air/immunisation/v1/refdata/vaccine/mandatory/vaccineBatch

Below example is used to indicate the format. The actual response contains more array elements.

- Example response:

```
{  
  "vaccines": [  
    {  
      "vaccineCode": "COMIRN",  
      "startDate": "1996-01-01",  
      "endDate": "9999-09-09"  
    },  
    {  
      "vaccineCode": "ADCL",  
      "startDate": "2024-03-01",  
      "endDate": "9999-09-09"  
    }  
  ]  
}
```

5.13 Get the list of vaccines mandatory to report vaccine funding type

Endpoint: /air/immunisation/v1/refdata/vaccine/mandatory/vaccineFundingType

Below example is used to indicate the format. The actual response contains more array elements.

- Example response:

```
{  
  "vaccines": [  
    {  
      "vaccineCode": "COVAST",  
      "startDate": "2024-03-01",  
      "endDate": "9999-09-09"  
    },  
    {  
      "vaccineCode": "IFHX",  
      "startDate": "2024-03-01",  
      "endDate": "9999-09-09"  
    }  
  ]  
}
```

5.14 Get the list of vaccines mandatory to report route of administration

Endpoint: /air/immunisation/v1/refdata/vaccine/mandatory/routeOfAdministration

Below example is used to indicate the format. The actual response contains more array elements.

- Example response:

```
{  
  "vaccines": [  
    {  
      "vaccineCode": "COMXBB",  
      "startDate": "2024-03-01",  
      "endDate": "9999-09-09"  
    },  
    {  
      "vaccineCode": "MMRCSL",  
      "startDate": "2024-03-01",  
      "endDate": "9999-09-09"  
    }  
  ]  
}
```

5.15 Get the list of vaccines allowable to record a medical contraindication

Endpoint: /air/immunisation/v1/refdata/vaccine/allowable/medicalContraindication

Below example is used to indicate the format. The actual response contains more array elements.

- Example response:

```
{  
  "vaccines": [  
    {  
      "vaccineCode": "MMRCSL",  
      "startDate": "2024-03-01",  
      "endDate": "9999-09-09"  
    }  
  ]  
}
```

```
"startDate": "1996-01-01",
"endDate": "9999-09-09",
"vaccineCode": "ADCL"
},
{
  "startDate": "1996-01-01",
  "endDate": "9999-09-09",
  "vaccineCode": "PRPT"
}
]
```

5.16 Get the list of vaccines allowable to record a natural immunity

Endpoint: /air/immunisation/v1/refdata/antigen/allowable/naturalImmunity

Below example is used to indicate the format. The actual response contains more array elements.

- Example response:

```
{
  "antigens": [
    {
      "antigenCode": "DIP",
      "startDate": "0001-01-01",
      "endDate": "9999-09-09"
    },
    {
      "antigenCode": "MUM",
      "startDate": "0001-01-01",
      "endDate": "9999-09-09"
    }
  ]
}
```

5.17 Get the list of valid country codes

Endpoint: /air/immunisation/v1/refdata/country

Below example is used to indicate the format. The actual response contains more array elements.

- Examples response:

```
{
  "countries": [
    {
      "countryCode": "ABW",
      "countryDescription": "Aruba"
    },
    {
      "countryCode": "AFG",
      "countryDescription": "Afghanistan"
    }
  ]
}
```

5.18 Get the valid vaccine types in the AIR

Endpoint: /air/immunisation/v1/refdata/vaccineType

- Example response:

```
{  
  "vaccineTypes": [  
    {  
      "vaccineTypeCode": "NIP",  
      "vaccineTypeDescription": " NIP/Commonwealth"  
    },  
    {  
      "vaccineTypeCode": "OTH",  
      "vaccineTypeDescription": "Other"  
    }  
  ]  
}
```

5.19 Get the age ranges mandatory to report antenatal indicator for an encounter for a female individual

Endpoint: /air/immunisation/v1/refdata/age/mandatory/antenatalIndicator

- Example response:

```
{  
  "minimumAge": 10,  
  "maximumAge": 65  
}
```

5.20 Get the list of valid gender values

Endpoint: /air/immunisation/v1/refdata/gender

- Example response:

```
{  
  "genders": [  
    {  
      "genderCode": "M",  
      "genderDescription": "Male"  
    },  
    {  
      "genderCode": "F",  
      "genderDescription": "Female"  
    },  
    {  
      "genderCode": "",  
      "genderDescription": ""  
    }  
  ]  
}
```

]
}

5.21 Get the list of vaccine type mandatory vaccines

Endpoint: /air/immunisation/v1/refdata/vaccine/mandatory/vaccineType

Below example is used to indicate the format. The actual response contains more array elements.

- Example response:

```
{  
  "vaccines": [  
    {  
      "vaccineCode": "COVAST",  
      "startDate": "2024-03-01",  
      "endDate": "9999-09-09"  
    },  
    {  
      "vaccineCode": "IFHX",  
      "startDate": "2024-03-01",  
      "endDate": "9999-09-09"  
    }  
  ]  
}
```

5.22 Get the list of antenatal indicator mandatory vaccines

Endpoint: /air/immunisation/v1/refdata/vaccine/mandatory/antenatalIndicator

Below example is used to indicate the format. The actual response contains more array elements.

- Example response:

```
{  
  "vaccines": [  
    {  
      "vaccineCode": "COVAST",  
      "startDate": "2024-03-01",  
      "endDate": "9999-09-09"  
    },  
    {  
      "vaccineCode": "IFHX",  
      "startDate": "2024-03-01",  
      "endDate": "9999-09-09"  
    }  
  ]  
}
```

6 Errors and Messages

6.1 Request rejection

If software developers fail to call the correct endpoint, they will receive standard HTTP responses, such as '404 – 'No resources match requested URL'.

6.2 Status Response Message and Code

When the API call accessed the endpoint successfully, the below response will be displayed:

```
{  
  "statusCode": "AIR-I-1100",  
  "codeType": "AIRIBU",  
  "message": "Your request was successfully processed"  
}
```

If you pass a parameter that doesn't exist, for example a vaccineCode, antigenCode or vaccineCategoryCode that doesn't exist in the AIR system, the call will be successful but not contain any related content,

e.g.

/air/immunisation/v1/refdata/vaccine/ABCDEF

/air/immunisation/v1/refdata/vaccine?vaccineCategoryCode=ABC

/air/immunisation/v1/refdata/antigen/ABC

will return just the statusCode, codeType and message with no other response content.

7 API data elements and descriptions

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
5.1	Get the list of allowable vaccines in the AIR	/air/immunisation/v1/refdata/vaccine	vaccines	array	N/A	N/A
			<unnamed parent element>	parent element	N/A	N/A
			vaccineCode	string	M	1-6
			vaccineName	string	M	1-70
			vaccineCategoryCode (NIP/NONST/COV19/FLU)	string	M	1-5

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			startDate	date	M	10
			endDate	date	M	10
			isMedicalContraindicationValid	boolean	M	Yes/No
			isVaccineBatchMandatory	boolean	M	Yes/No
			vaccineBatchMandatoryStartDate	date	O (only if indicator is true)	10
			vaccineBatchMandatoryEndDate	date	O (only if indicator is true)	10

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			isVaccineFundingTypeMandatory	boolean	M	Yes/No
			vaccineFundingTypeMandatoryStartDate	date	O (only if indicator is true)	10
			vaccineFundingTypeMandatoryEndDate	date	O (only if indicator is true)	10
			isVaccineTypeMandatory	boolean	M	Yes/No
			vaccineTypeMandatoryStartDate	date	O (only if indicator is true)	10
			vaccineTypeMandatoryEndDate	date	O (only if indicator is true)	10

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			isRouteOfAdministrationMandatory	boolean	M	Yes/No
			routeOfAdministrationMandatoryStartDate	date	O (only if indicator is true)	10
			routeOfAdministrationMandatoryEndDate	date	O (only if indicator is true)	10
			validVaccineFundingTypeCodes	string	M	Minimum 1 No Maximum
			validVaccineTypeCodes	string	M	Minimum 1 No Maximum
			validRouteOfAdministrationCodes	string	M	Minimum 1 No Maximum

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			antigens	array	N/A	N/A
			<unnamed parent element>	parent element	N/A	N/A
			antigenCode	string	M	1-3
			antigenName	string	M	1-70
			maximumDose	integer	M	1-3
			isNaturalImmunityValid	boolean	M	Yes/No

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
5.2	Get the details for a specific vaccine code in the AIR	/air/immunisation/v1/refdata/vaccine/{vaccineCode}	vaccines	array	M	Refer to API 5.1
5.3	Get standard (NIP) vaccines in the AIR	/air/immunisation/v1/refdata/vaccine?vaccineCategoryCode=NIP	vaccines	array	M	Refer to API 5.1
5.4	Get non-standard vaccines in the AIR	/air/immunisation/v1/refdata/vaccine?vaccineCategoryCode=NONST	vaccines	array	M	Refer to API 5.1
5.5	Get COVID-19 vaccines in the AIR	/air/immunisation/v1/refdata/vaccine?vaccineCategoryCode=COV19	vaccines	array	M	Refer to API 5.1
5.6	Get influenza vaccines in the AIR	/air/immunisation/v1/refdata/vaccine?vaccineCategoryCode=FLU	vaccines	array	M	Refer to API 5.1
5.7	Get the valid vaccine categories in the AIR	/air/immunisation/v1/refdata/vaccineCategory	vaccineCategories	array	M	N/A

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			<unnamed parent element>	parent element	N/A	N/A
			vaccineCategoryCode	string	M	1-5
			vaccineCategoryDescription	string	M	1-70
5.8	Get the valid vaccine funding types in the AIR	/air/immunisation/v1/refdata/vaccineFundingType	vaccineFundingTypes	array	M	N/A
			<unnamed parent element>	parent element	N/A	N/A
			vaccineFundingTypeCode	string	M	1-6

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			vaccineFundingTypeDescription	string	M	1-70
5.9	Get the valid routes of administration in the AIR	/air/immunisation/v1/refdata/routeOfAdministration	routesOfAdministration	array	M	N/A
			<unnamed parent element>	parent element	N/A	N/A
			routeOfAdministrationCode	string	M	1-6
			routeOfAdministrationDescription	string	M	1-70
5.10	Get the details of antigens in the AIR	/air/immunisation/v1/refdata/antigen	antigens	array	N/A	N/A

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			<unnamed parent element>	parent element	N/A	N/A
			antigenCode	string	M	1-3
			antigenName	string	M	1-70
			maximumDose	integer	M	1-3
			isNaturalImmunityValid	boolean	M	Yes/No
5.11	Get the details of a specific antigen code in the AIR	/air/immunisation/v1/refdata/antigen/{antigenCode}	antigens	array	M	N/A

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
5.12	Get the list of vaccines mandatory to report batch code	/air/immunisation/v1/refdata/vaccine/mandatory/vaccineBatch	vaccines	array	N/A	N/A
			<unnamed parent element>	parent element	N/A	N/A
			vaccineCode	string	M	1-6
			startDate	date	M	10
			endDate	date	M	10
5.13	Get the list of vaccines mandatory to report vaccine funding type	/air/immunisation/v1/refdata/vaccine/mandatory/vaccineFundingType	vaccines	array	N/A	N/A

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			<unnamed parent element>	parent element	N/A	N/A
			vaccineCode	string	M	1-6
			startDate	date	M	10
			endDate	date	M	10
5.14	Get the list of vaccines mandatory to report route of administration	/air/immunisation/v1/refdata/vaccine/mandatory/routeOfAdministration	vaccines	N/A	N/A	N/A
			<unnamed parent element>	parent element	N/A	N/A

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			vaccineCode	string	M	1-6
			startDate	date	M	10
			endDate	date	M	10
5.15	Get the list of vaccines allowable to record a medical contraindication	/air/immunisation/v1/refdata/vaccine/allowable/medicalContraindication	vaccines	N/A	N/A	N/A
			<unnamed parent element>	parent element	N/A	N/A
			vaccine Operator Code	string	M	1-2 1-6

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			startDate	date	M	10
			endDate	date	M	10
5.16	Get the list of vaccines allowable to record a natural immunity	/air/immunisation/v1/refdata/antigen/allowable/naturalImmunity	antigens	N/A	N/A	N/A
			<unnamed parent element>	parent element	N/A	N/A
			antigenCode	string	M	1-3
			startDate	date	M	10

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			endDate	date	M	10
5.17	Get the list of valid country codes	/air/immunisation/v1/refdata/country	countries	array	M	N/A
			<unnamed parent element>	parent element	N/A	N/A
			countryCode	string	M	1-3
			countryDescription	string	M	1-70
5.18	Get the valid vaccine types in the AIR	/air/immunisation/v1/refdata/vaccineType	vaccineTypes	array	M	N/A

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			<unnamed parent element>	parent element	N/A	N/A
			vaccineTypeCode	string	M	1-6
			vaccineTypeDescription	string	M	1-70
5.19	Get the age ranges mandatory to report antenatal indicator for an encounter for a female individual	/air/immunisation/v1/refdata/age/mandatory/antenatalIndicator	minimumAge	integer	M	1-3
			maximumAge	integer	M	1-3
5.20	Get the list of valid gender values	/air/immunisation/v1/refdata/gender	genders	array	M	N/A

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			<unnamed parent element>	parent element	N/A	N/A
			genderCode	string	M	1-1
			genderDescription	string	M	1-70
5.21	Get the list of vaccine type mandatory vaccines	/air/immunisation/v1/refdata/vaccine/mandatory/vaccineType	vaccines	array	N/A	N/A
			<unnamed parent element>	parent element	N/A	N/A
			vaccineCode	string	M	1-6

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			startDate	date	M	10
			endDate	date	M	10
5.22	Get the list of antenatal indicator mandatory vaccines	/air/immunisation/v1/refdata/vaccine/mandatory/antenatalIndicator	vaccines	array	N/A	N/A
			<unnamed parent element>	parent element	N/A	N/A
			vaccineCode	string	M	1-6
			startDate	date	M	10

API No.	API Name	API Endpoint	Response Element	Type	Conditionality M/I/O	Size/Value
			endDate	date	M	10