Vaccination

Functional Specification for capture of Extended Attributes, Vaccination Location and Care home details at Point Of Care

Current version: v0.7 draft

Version date: 29/01/2021

Contents

[Document Management 3](#_Toc62817356)

[Revision History 3](#_Toc62817357)

[Reviewers / Key Stakeholders 3](#_Toc62817358)

[Document Author 3](#_Toc62817359)

[Approved by 4](#_Toc62817360)

[1. Purpose of Document 5](#_Toc62817361)

[2. Introduction 5](#_Toc62817362)

[3. Data collection interfaces and values 5](#_Toc62817363)

[3.1 Extended Data Attributes 5](#_Toc62817364)

[3.2 Vaccination Location 7](#_Toc62817365)

[3.3 Care home details 8](#_Toc62817366)

[3.4 Pregnancy status 9](#_Toc62817367)

[Annex A – Example extended data attributes 10](#_Toc62817368)

[Annex B – Example vaccination location 10](#_Toc62817369)

[Annex C – Example care home details 11](#_Toc62817370)

[Annex D – Example Pregnancy status 11](#_Toc62817371)

# Document Management

## Revision History

|  |  |  |
| --- | --- | --- |
| Version | Date | Summary of Changes |
| 0.1 | 20Jan21 | Initial draft |
| 0.2 | 21Jan21 | Updated to include details of how location type will flow and changes to wording of attribute data |
| 0.3 | 21Jan21 | Updated to reflect new approach to flows |
| 0.4 | 21Jan21 | Updated to action review changes – changed Care Home Details to capture only CQC code (if applicable), Care home name, care home postcode |
| 0.5 | 22Jan21 | Updated in line with comments. |
| 0.6 | 25Jan21 | Removed NHS and GP Worker question. |
| 0.7 | 29Jan21 | Updated location spec, added pregnancy question |

## Reviewers / Key Stakeholders

This document has been/must be reviewed by the following people – key Stakeholders highlighted

|  |  |  |  |
| --- | --- | --- | --- |
| Reviewer name | Title / Responsibility / Company | Reviewed date | Reviewed version |
| Graham Dodsworth | NHS Digital – Solution Architect |  |  |
| Shail Ravjibhai | NHS Digital – Lead BA | 22/01/2021 | 0.3 |
| John McBride | Solution Architect |  |  |
| Paul Ellingham | NHS Digital - DSP |  |  |
| Shahzad Ali | Clinical Lead, NHS Digital |  |  |
| Chris Dickson | Clinical Lead, NHS Digital |  |  |
| Roger Carter | Product Owner, NHS Digital |  |  |
| Camille Tsang  | Public Health England |  |  |
| Stuart Crook | Solicitor (External Legal Support) Information Law Legal Team |  |  |
| Emma Bell | Solution Assurance NHS Digital |  |  |

## Document Author

This document was authored by the following:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Signature | Title | Date | Version |
| Seb Tallents |  | Business Analyst – PA consulting | 20/01/2021 | 0.1 |
| Seb Tallents |  | Business Analyst – PA consulting | 21/01/2021 | 0.2 |
| Seb Tallents |  | Business Analyst – PA consulting | 21/01/2021 | 0.3 |
| Seb Tallents |  | Business Analyst – PA consulting | 22/01/2021 | 0.4 |
| Seb Tallents |  | Business Analyst – PA consulting | 22/01/2021 | 0.5 |
| Seb Tallents |  | Business Analyst – PA consulting | 25/01/2021 | 0.6 |
| Seb Tallents |  | Business Analyst – PA consulting | 29/01/2021 | 0.7 |

## Approved by

This document must be approved by the following people:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Signature | Title | Date  | Version |
| Adrian Stanbury |  | Tech and Data Lead |  |  |
| Jason Stuart-Clark |  | Technical Architect |  |  |
| Shahzad Ali |  | Clinical Lead |  |  |
| Stuart Crook |  | IG Lead |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

# Purpose of Document

This document defines the functional requirements for provision of **extended data attributes**, and **care home details**, and **vaccination location**, captured at the point of care of vaccination delivery. The flow of this data to NHSD is specified in the technical specs “NHS Digital Extended Attributes Tech Spec v0.3”

The intention is that this specification is healthcare setting agnostic, so can be used to support capture of **extended data attributes** (e.g. **vaccination location**, and **care home details** information) relating to vaccination activity across Community Pharmacy, GP, Health and Justice (MOJ) healthcare settings and mass vaccination sites & mobile hubs for example.

The document is intended to be used by developers in organizations supplying vaccination information to NHS Digital, as part of the user interface, data storage and extract creation process.

The attributes defined within this specification **MUST** be collected by inclusion of additional questions after the clinical screening questions added to the point of care systems.

# Introduction

The national flu and COVID immunisation programme 2020 to 2021 requires IT system providers to support the effort by providing NHS Digital with a new feed of data for COVID (and potentially in future other) Vaccines to support take-up of the COVID vaccines. The data will ultimately feed a call/recall, operational reporting facilities and other secondary uses such as public health surveillance of vaccine uptake and effectiveness.

# Data collection interfaces and values

This section defines the functional changes required for capturing the required additional information.

## Extended Data Attributes

Completion of these questions is MANDATORY - users MUST be prompted to confirm they have been completed (e.g. by ticking a checkbox confirming the questions have been asked to users, or ensuring).

Each question corresponds to an attribute that has a unique reference number, text to display and allowed values.

Text to display is written in the form of the question that the individual to be vaccinated should be asked.

The data to be passed to NHSD will include the Attribute ID, Text displayed, and corresponding Value. Details for file format can be found in “NHS Digital Extended Attributes Tech Spec v0.3”.

The following field mappings apply:

**ATTRIBUTE\_ID** – ID Number as per table below

**ATTRIBUTE\_DISPLAYED\_TEXT** – Text displayed in user interface

**ATTRIBUTE\_VALUES** – Allowed values as per table below corresponding to ID number

An example is shown in Annex A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute**  | **Expected Value for ATTRIBUTE\_ID** | **Suggested selector type** | **Expected Value for ATTRIBUTE\_DISPLAY\_TEXT** | **Allowed Values For ATTRIBUTE\_VALUES column** |
| Carer | 001 | Radio button (Yes, No, Not Specified) | “Are you a carer?” | TYPE: STRINGTRUE – if YesFALSE – if NoNOT\_SPECIFIED – if Not Specified |
| Social care worker | 002 | Radio button (Yes, No, Not Specified) | “Are you a social care worker?” | TYPE: STRINGTRUE – if YesFALSE – if NoNOT\_SPECIFIED – if Not Specified |
| Health care worker | 003 | Radio button (Yes, No, Not Specified)  | “Are you a health care worker?” | TYPE: STRINGTRUE – if YesFALSE – if NoNOT\_SPECIFIED – if Not Specified |
| Care home worker | 004 | Radio button (Yes, No, Not Specified) | “Do you work in a residential care home for older people?” | TYPE: STRINGTRUE – if YesFALSE – if NoNOT\_SPECIFIED – if Not Specified |
| Care home resident | 005 | Radio button (Yes, No, Not Specified) | “Do you live in a residential care home?” | TYPE: STRINGTRUE – if YesFALSE – if NoNOT\_SPECIFIED – if Not Specified |
| Ethnic category | 006 | Drop down list | “What is your ethnic category?”Options in list to align to <https://datadictionary.nhs.uk/attributes/ethnic_category_code_2001.html>White * British
* Irish
* Other white

Mixed * White and black Caribbean
* White and Black African
* White and Asian
* Other mixed

Asian or Asian British * Indian
* Pakistani
* Bangladeshi
* Other Asian

Black or Black British * Caribbean
* African
* Other Black

Other Ethnic Groups * Chinese
* Other

 * Not Stated

  | TYPE: STRINGe.g. ASee https://datadictionary.nhs.uk/attributes/ethnic\_category\_code\_2001.html  for details. |

## Vaccination Location

Vaccination location refers to the location / delivery model through which the vaccination is carried out.

To minimise burden on users, vaccination location type should be entered once and persisted to all vaccination events in the session. This may be done by automatically pre-population based on the value of the previous vaccination event until the user makes a change, or as a session configuration set up at the beginning and end of a session.

Vaccination location type should be passed to NHSD as specified in “NHS Digital Extended Attributes Tech Spec v0.3”

The following field mappings apply:

**ATTRIBUTE\_ID** – 101

**ATTRIBUTE\_DISPLAYED\_TEXT** – Text as per location type column in table below

**ATTRIBUTE\_VALUES** – Location code as per location code column in table below

An example is shown in Annex B

One of the following location types need to be captured.

|  |  |  |
| --- | --- | --- |
| **Expected value for ATTRIBUTE\_DISPLAYED\_TEXT** | **Definition** | **Expected value for ATTRIBUTE\_VALUES**  |
| Onsite at a Hospital Hub | Vaccination occurred at a hospital hub | STRING – ONSSHH |
| Onsite at a PCN LVS | Vaccination occurred at a Local Vaccination Service fixed site | STRING – ONSPCNLVS |
| Onsite at a Pharmacy run LVS | Vaccination occurred at a Local Vaccination Service fixed site run by a pharmacy | STRING – ONSPHLVS |
| Onsite at a Vaccination Centre | Vaccination occurred at a national Vaccination Centre | STRING – ONSVC |
| Roving at a detained setting | Vaccination occurred in any of the following:* Immigration removal centres
* Prisons
* Secure training centres
* Young offender institutions
 | STRING – ROVDET |
| Roving at a Long-term Residential Care Facility | Vaccination occurred at any of the following:Secure settings (e.g. secure psychiatric unit)“Care homes” (15,000)* Residential care homes
* Learning disability homes
* Nursing homes
* Hospices
 | STRING – ROVRC |
| Roving at a domiciliary care visit to someone’s private residence | Vaccination occurred at a visit to someone’s private residence (i.e. not one of the above or other institution) | STRING – ROVDC |
| Not Recorded | Vaccination location not recorded  | STRING – UNKNOWN |

## Care home details

If a vaccination event occurs in a CQC designated care home, the care home details should be recorded.

To minimise burden on users, CQC designated care home should be entered once and persisted to all vaccination events in the session. This may be done by automatically pre-population based on the value of the previous vaccination event until the user makes a change, or as a session configuration set up at the beginning and end of a session.

CQC care home should be identified by a smart search conducted using the name and/or postcode from the list published [[XML Organisation Data Products - NHS Digital](https://digital.nhs.uk/services/organisation-data-service/xml-organisation-data-products)].

If the care home is not present, users should be able to select “Other care home” and enter the care home address manually as text field containing the street address and post code.

Care home details should be passed to NHSD in the NHS Digital Extended Attributes Tech Spec v0.3, with the details passed as four attributes as per the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute**  | **ATTRIBUTE\_ID** | **ATTRIBUTE\_DISPLAYED\_TEXT** | **Allowed Values for ATTRIBUTE\_VALUE** |
| Vaccinated in care home | 800 | Patient vaccinated in care home? | TRUE|FALSE |
| Care home ODS code | 801 | Care home ODS Code | ODS code corresponding to care home selected by user from list | NA if “Other” |
| Care home name | 802 | Care home name | STRING – to be imported from CQC list if CQC care homeSTRING – input by user if a non CQC care homeSTRING – NA – if not vaccinated in carehome |
| Care home post code | 803 | Care home postcode | STRING – to be imported from CQC list if CQC care home STRING – input by user if a non CQC care homeSTRING – NA – if not vaccinated in carehome |

An example is shown in Annex C

##  Pregnancy status

PHE require the collection of pregnancy status of women vaccinated with the COVID vaccines. This information is already collected as part of pre-screening questions, with the specified wording “Are you, or could you be pregnant?”. The response to this question should be passed via the “NHS Digital Extended Attributes Tech Spec v0.3”.

**ATTRIBUTE\_ID** – 201

**ATTRIBUTE\_DISPLAYED\_TEXT** – Text as specified by the screening question

**ATTRIBUTE\_VALUES** – Location code as per location code column in table below

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute**  | **ATTRIBUTE\_ID** | **ATTRIBUTE\_DISPLAYED\_TEXT** | **Allowed Values for ATTRIBUTE\_VALUE** |
| Pregnancy status | 201 | As implemented in pre-screening questions. | TRUE|FALSE |

An example is shown in Annex D

# Annex A – Example extended data attributes

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VACCINATION\_UNIQUE\_ID** | **VACCINATION\_UNIQUE\_ID\_URI** | **ACTION\_FLAG** | **ATTRIBUTE\_ID** | **ATTRIBUTE\_DISPLAYED\_TEXT** | **ATTRIBUTE\_VALUE** | **RECORDED\_DATE** |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 001 | Are you a carer? | TRUE | 20201801 |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 002 | Are you a social care worker? | FALSE | 20201801 |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 003 | Are you a health care worker? | NOT\_SPECIFIED | 20201801 |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 007 | What is your ethnic category? | A | 20201801 |

# Annex B – Example vaccination location

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VACCINATION\_UNIQUE\_ID** | **VACCINATION\_UNIQUE\_ID\_URI** | **ACTION\_FLAG** | **ATTRIBUTE\_ID** | **ATTRIBUTE\_DISPLAYED\_TEXT** | **ATTRIBUTE\_VALUE** | **RECORDED\_DATE** |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 101 | Onsite at a Hospital Hub | ONSSHH | 20201801 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VACCINATION\_UNIQUE\_ID** | **VACCINATION\_UNIQUE\_ID\_URI** | **ACTION\_FLAG** | **ATTRIBUTE\_ID** | **ATTRIBUTE\_DISPLAYED\_TEXT** | **ATTRIBUTE\_VALUE** | **RECORDED\_DATE** |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 101 | Onsite at a PCN Local Vaccination Service | ONSPCNLVS | 20201801 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VACCINATION\_UNIQUE\_ID** | **VACCINATION\_UNIQUE\_ID\_URI** | **ACTION\_FLAG** | **ATTRIBUTE\_ID** | **ATTRIBUTE\_DISPLAYED\_TEXT** | **ATTRIBUTE\_VALUE** | **RECORDED\_DATE** |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 101 | Roving at a residential care home | ROVRC | 20201801 |

# Annex C – Example care home details

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VACCINATION\_UNIQUE\_ID** | **VACCINATION\_UNIQUE\_ID\_URI** | **ACTION\_FLAG** | **ATTRIBUTE\_ID** | **ATTRIBUTE\_DISPLAYED\_TEXT** | **ATTRIBUTE\_VALUE** | **RECORDED\_DATE** |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 800 | Patient vaccinated in care home? | FALSE | 20201801 |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 801 | CQC Number | NA | 20201801 |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 802 | Care home street address | NA | 20201801 |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 803 | Care home postcode | NA | 20201801 |

*Or*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VACCINATION\_UNIQUE\_ID** | **VACCINATION\_UNIQUE\_ID\_URI** | **ACTION\_FLAG** | **ATTRIBUTE\_ID** | **ATTRIBUTE\_DISPLAYED\_TEXT** | **ATTRIBUTE\_VALUE** | **RECORDED\_DATE** |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 800 | Patient vaccinated in care home? | TRUE | 20201801 |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 801 | Care home ODS Code | 8AT79 | 20201801 |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 802 | Care home name | HARTSHEAD MANOR | 20201801 |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 803 | Care home postcode | BD19 6LP | 20201801 |

# Annex D – Example Pregnancy status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VACCINATION\_UNIQUE\_ID** | **VACCINATION\_UNIQUE\_ID\_URI** | **ACTION\_FLAG** | **ATTRIBUTE\_ID** | **ATTRIBUTE\_DISPLAYED\_TEXT** | **ATTRIBUTE\_VALUE** | **RECORDED\_DATE** |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 201 | As implemented in pre-screening questions. | TRUE | 20201801 |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 201 | As implemented in pre-screening questions. | FALSE | 20201801 |
| e045626e-4dc5-4df3-bc35-da25263f901e | [https://supplierABC/identifiers/vacc](https://supplierabc/identifiers/vacc) | new | 201 | As implemented in pre-screening questions. | NOT\_SPECIFIED | 20201801 |