

Vaccination

Booking data from NHS England to AGEM / UDAL / Foundry / FDP

Current version: v1.9 Approved

Version date: 20/08/2024



Contents

Vaccination	1
Document Management	3
Revision History	3
Reviewed By	3
Approved By	3
1. Purpose of Document	5
1.1 Summary	5
2. Data File Format	5
2.1 File Header	6
2.2 File Footer	6
2.3 Field Delimiter	6
2.4 Record Delimiter	6
2.5 Character Values	6
3. Bookings File Export	8
3.1 File Contents	8
3.2 Naming Convention	11

Document Management

Revision History

Redaction Rationale – The information below has been redacted as this includes personal information, this has been completed in line with Section 40 (2) of the Freedom of Information Act 2000.

Version	Date	Summary of Changes
0.1	10/04/2024	Initial draft version created from “AGEM to Foundry Technical Data Feed” specification.
1.8	17/04/2024	Set to v1.8 with Approval from Lead BA following review of documents to split out specifications from the combined AGEM to Foundry Technical Data Feed specification
1.9	22/07/2024 and 01/08/2024	<p>Updated to reference FDP and UDAL, include RSV data, and removal of DOSE_SEQUENCE_NUMBER</p> <p>Updated to include clarification of AGEM and Foundry feeds as provided by [REDACTED], including amended document title and changes to the following sections:</p> <ol style="list-style-type: none">1. Purpose of Document2. Data File Format<ol style="list-style-type: none">2.1 File Header3.1 File Contents (data item 3 only)

Reviewed By

Redaction Rationale – The information below has been redacted as this includes personal information, this has been completed in line with Section 40 (2) of the Freedom of Information Act 2000.

This document has been reviewed by the following people:


Name	Title	Date	Version
[REDACTED]	Lead Business Analyst, Vaccination Digital Services, NHS England	23/07/2024	1.9
[REDACTED]	Senior Data Architect, Vaccination Digital Services	23/07/2024	1.9
[REDACTED]	IG Lead, Vaccination Digital Services	15/08/2024	1.9
[REDACTED]	Test and Assurance Lead, Vaccination Digital Services	19/08/2024	1.9

Approved By

Redaction Rationale – The information below has been redacted as this includes personal information, this has been completed in line with Section 40 (2) of the Freedom of Information Act 2000.

This document has been approved by the following people:

Name	Title	Date	Version
	Lead Business Analyst, Vaccination Digital Services, NHS England	23/07/2024	1.9



Vaccination

██████████	IG Lead, Vaccination Digital Services	15/08/2024	1.9
██████████	Test and Assurance Lead, Vaccination Digital Services	19/08/2024	1.9

1. Purpose of Document

This document defines a file extract specification for provision of booking data to Arden and Greater East Midlands (AGEM) CSU. AGEM will process the information for onward transmission to UDAL / Foundry / Federated Data Platform (FDP) to facilitate secondary use reporting requirements. At present this applies to vaccinations for COVID-19 and Seasonal Flu, and from September 2024 will include RSV.

Each of the data items required is detailed together with details on how the data will be formatted.

The document is intended to be used by:

- a) Developers in NHS England, for generating the outbound extract,
- b) Developers in recipient organisations to consume the information contained within the extract.

Any changes or enhancements to the specification are subject to Change Control.

Design considerations as to file transfer mechanism (e.g., MESH) are not in scope of this document.

The process by which AGEM pseudonymises the information for onward transmission is additionally not in scope.

1.1 Summary

The bookings export will contain a record for each booking made by the national or regional booking services.

The booking reference number can be used to identify any future records for delta processing, but to link back to historically provided records, it is recommended that NHS_NUMBER, BOOKING_DATE_AND_TIME and VACCINATION_TYPE be used.

2. Data File Format

This section defines the required format of the file extract that NHS England will provide to AGEM so that they can pseudonymise the NHS number prior to the data being flowed to UDAL / Foundry / FDP.

2.1 File Header

Each data file will contain a header row containing the field names delimited by a pipe character. The field names will be the same as those specified in the next section.

File format for the Bookings Export to AGEM is as follows:

```
BOOKING_REFERENCE_NO|ACTION_FLAG|NHS_NUMBER|BOOKING_DATE_AND_TIME|BOOKING_STATUS|VACCINATION_TYPE|SELF_DECLARED_COHORT
```

File format for the Bookings Export from AGEM to UDAL / Foundry / FDP is as follows:

```
BOOKING_REFERENCE_NO|ACTION_FLAG|PSEUDONYMISED_NHS_NUMBER|BOOKING_DATE_AND_TIME|BOOKING_STATUS|VACCINATION_TYPE|SELF_DECLARED_COHORT
```

2.2 File Footer

A file footer will not be submitted.

2.3 Field Delimiter

Each field in the data files will be enclosed within double quotes and delimited by a pipe character "|". Pipe characters will not be included within a data field. Any files with pipe characters within a data field will be rejected.

Where this is no value (null) present, this will be represented as two consecutive delimiter characters (i.e. with no space character used), e.g. in the following, fields 2 and 8 have missing (null) values:

```
"The" || "Brown" | "Fox" | "Jumped" | "Over" | "The" | | "Dog"
```

2.4 Record Delimiter

Each record (i.e. row) in the data files will be terminated by the Line Feed (LF) character.

2.5 Character Values

String values

Strings will contain printable characters only

Escape characters

All double quote characters within the data will be escaped with the backslash “\” character

Carriage returns/Line feeds

Carriage returns or line feeds will not be contained within data fields

3.Bookings File Export

3.1 File Contents

Item Number	Field Name	Data Type	Length / Format / Value	Description
1	BOOKING_REFERENCE_NO	String	Maximum 20 characters	Identifier – allows cancellations and changes to be matched back to the original booking NOTE: With the exception of the national booking service, this unique ID will be prefixed with the identifier for the service making the booking (as agreed with SystemC e.g. “SB” for SimplyBook) – this is to ensure all booking references are unique across all services.
2	ACTION_FLAG	String	<ul style="list-style-type: none">• ADD• UPD	An action code to denote whether the record is to be added (ADD) or updated (UPD).
3	NHS_NUMBER (PSEUDONYMISED_NHS_NUMBER for AGEM to Foundry / FDP flow)	String	<ul style="list-style-type: none">• Max 10	Will be used to uniquely identify the patient prior to pseudonymisation:. 10 digit number without spaces e.g. 9123456789

				<p>Pseudonymised NHS Number will be used to link patient data within Foundry / FDP:</p> <p>10-digit number without spaces e.g. 9123456789</p>
4	BOOKING_DATE_AND_TIME	Date/Time	<p>YYYYMMDDThhmmsszz</p> <p>e.g. 20201214T10081500</p>	The date that the eligible individual has booked for a Covid vaccination
5	BOOKING_STATUS	String	<p>One of:</p> <ul style="list-style-type: none"> • B - Booked • C - Cancelled • D - Did Not Attend • R – Rejected 	Status for the Appointment Booking.
6	VACCINATION_TYPE	String	<p>dm+d (SNOMED-CT) Concept ID</p> <p>Or</p> <ul style="list-style-type: none"> • Free Text 	<p>This indicates vaccine product type that has been booked.</p> <p>Must be only dm+d (SNOMED-CT) Concept ID for AMP</p> <p>Note: AMPP, VMP or VMPP codes must not be sent</p> <p>Or</p> <p>A textual representation of the vaccine type booked</p>

				<p>Current list (indicative only):</p> <ul style="list-style-type: none"> • 39115611000001103 • 39114911000001105 • <u>40384611000001108</u> • <u>39326911000001101</u> • <u>40801911000001102</u> • <u>40851611000001102</u> • <u>FLUGENERIC</u> • <u>FLU18TO64</u> • <u>FLU65PLUS</u> <p><u>OVERSEAS</u></p>
7	SELF_DECLARED_COHORT	String	<p>Current values are:</p> <ul style="list-style-type: none"> • AtRiskIndividual • HealthWorker • UnknownUnpaidCarer • LivesWithSeverelyImmunosuppressedIndividual • SeverelyImmunosuppressedIndividual • PregnantIndividual 	<p>This will be used to specify the cohort to which individuals self-declare at the time of booking. cohort members. This list may be adjusted at a future date.</p>

3.2 Naming Convention

The file produced will be named in the following convention:

AGEM_FOUNDRY_BookingsExport_FileVersionNumber _[YYYYMMDD]_[HHMM].csv

For example: 'AGEM_FOUNDRY_BookingsExport_v1_20200728_0904.csv'

(Note: Please also note that the version number within files will be pegged to the major version of this data specification. For example, where versions 1.1, 1.2 and 1.3 have been published subsequent to a v1.0, the file name will continue to contain “v1”. However, where a version 2.0 is published, the filename will change to reflect v2)

The file is timestamped to indicate the date it was produced.