

# Data Provision Notice

## Ambulance Data Set (ADS) – CAD Data

Information Asset Owner: Richard Irvine

Version: 1.0

Published: 11 March 2022



**Information and technology**  
**for better health and care**

## **Contents**

<b>Glossary</b>	<b>3</b>
<b>Background</b>	<b>5</b>
<b>Purpose of the collection</b>	<b>5</b>
<b>Benefits of the collection</b>	<b>5</b>
<b>Legal basis for the collection, analysis, publication and dissemination</b>	<b>6</b>
<b>Persons consulted</b>	<b>7</b>
<b>Scope of the collection</b>	<b>10</b>
Form of the collection	11
Manner of the collection	11
Period of the collection	11
Data quality	11
<b>Burden of the collection</b>	<b>12</b>
Steps taken by NHS Digital to minimise the burden of collection	12
Burden assessment findings	12

## Glossary

<b>Term / Abbreviation</b>	<b>What it stands for</b>
ADS	Ambulance Data Set
AGEM	NHS Arden & Greater East Midlands
AQI	Ambulance Quality Indicators
ARP	Ambulance Response Programme
AMPDS	Advanced Medical Priority Dispatch System
CAD	Computer Assisted Dispatch system
Cleric	Computer Aided Dispatch system (Brand name)
DAE	The Data Access Environment is the secure way users can remotely access better linked information and ensures the right person, with the right permissions gets the right data, in accordance with their Data Sharing Agreement
Data Item	An individual piece of data that when combined with other data items forms a record
Data Set	A collection of information from care records, systems and organisations on specific areas of health and care
DAPB	Data Alliance Partnership Board
DPN	Data Provision Notice
DPS	Data Processing Service
DSCRO	Data Services for Commissioners Organisation
ECDS	Emergency Care Data Set
EOC	Emergency Operation Centre
EPR	Electronic Patient Record
FHIR	Fast Healthcare Interoperability Resources
HRA CAG	Confidentiality Advisory Group - Health Research Authority
MIS3	Computer Aided Dispatch system (Brand name)
Operational Data	The non-clinical Ambulance data collected by the Ambulance Service to support the operational delivery of the Ambulance Service and inform the ambulance performance measures not directly related to the clinical assessment of the patient.
Patient Level Data	The patient level data is that which will be reported on once the operational data transforms into the data set.
SDEC	Same Day Emergency Care
TRE	Trusted Research Environment
UTC	Urgent Treatment Centre
<b>Ambulance Services</b>	
EMAS	East Midlands Ambulance Service
EEAS	East of England Ambulance Service
IOW	Isle of Wight Ambulance Service

LAS	London Ambulance Service
NEAS	North East Ambulance Service
NWAS	North West Ambulance Service
SCAS	South Central Ambulance Service
SECAS	South East Coast Ambulance Service
SWAS	South Western Ambulance Service
WMAS	West Midlands Ambulance Service
YAS	Yorkshire Ambulance Service

---

## Background

The Health and Social Care Act 2012 (the Act) gives the Health and Social Care Information Centre, known as **NHS Digital** and hereafter referred to by this name, statutory powers, under section 259(1)(a), to require data from health or social care bodies, or organisations that provide publicly funded health or adult social care in England, where it has been Directed to establish an information system by the Secretary of State for Health and Social Care or NHS England, or as part of a Mandatory Request from another organisation.

The data, as specified by NHS Digital in this Data Provision Notice (DPN), is required to support a Direction from NHS England to NHS Digital. Therefore, organisations that are in scope of the notice are legally required, under section 259(5) of the Act, to provide the data in the form and manner specified below.

The Ambulance Data Set is being implemented in two instalments in 2022, with the CAD element first, adding the EPR element (which represents the fully live data set) later in the year. This DPN applies to the CAD element and will be superseded when the EPR element is added bringing the data set to fully live status.

## Purpose of the collection

The NHS Long-Term Plan 2019 set out a commitment to develop an ambulance data set to:

“...bring together data from all ambulance services nationally in order to follow and understand patient journeys from the ambulance service into other urgent and emergency healthcare settings”.

The Ambulance Data Set delivers that long-term plan commitment.

The Ambulance Data Set forms part of NHS England and NHS Improvement’s ‘Joint Ambulance Improvement Programme’.

In order to satisfy the ambition described in the Long-Term Plan, the Ambulance Data Set is capable of linking to, and returning data from, other Urgent and Emergency Healthcare data sets.

## Benefits of the collection

The Ambulance Data Set can be used to help enable Ambulance Services to identify variation and best practice to advance both clinical and operational delivery at a local and national level and improve patient care through secondary use (i.e. not for the direct care of the patient) analysis.

NHS England and NHS Improvement requires accurate secondary uses Ambulance data for the following types of activity:

- 111/999 Emergency Operations Centre (data from Computer Aided Dispatch [CAD] systems)
- Ambulance response data (from Electronic Patient Record [EPR] systems).

This includes activity undertaken by the English Ambulance Service providers, where the data required is as defined in the NHS England and NHS Improvement owned Ambulance Data Set Data Content Specification. This DPN covers the CAD system data only.

NHS England and NHS Improvement anticipates that the collection of the Ambulance Data Set will support the following benefits:

- greater ability to demonstrate the value of Ambulance Services
- better understanding of call/incident, response and patient level data, especially where linked with wider data sets (e.g. ECDS)
- support research and development of clinical care delivered by Ambulance Services
- support clinical feedback and supervision mechanisms
- support National Tariff processes
- support benchmarking of Ambulance Service Activity
- monitoring and evaluation of Health or Ambulance Improvement Programmes
- support understanding of the health needs of the population served by Ambulance Services.

## Legal basis for the collection, analysis, publication and dissemination

Under sections 254(1) and 254(6) of the Act, NHS Digital has been Directed by NHS England to establish and operate a system for the collection of the Ambulance Data Set from the eleven Ambulance Services in England.

The Direction is published on the NHS Digital website: <https://digital.nhs.uk/about-nhs-digital/corporate-information-and-documents/directions-and-data-provision-notice/nhs-england-directions/ambulance-data-set-directions-2022>

This Ambulance data is therefore required by NHS Digital under section 259(1)(a) of the Health and Social Care Act 2012.

In line with section 259(5) of the Act; all organisations in scope in England must comply with the requirement and provide information to NHS Digital in the form, manner and period specified in this Data Provision Notice.

This notice is issued in accordance with the procedure published as part of NHS Digital duty under section 259(8).

### Publication

NHS Digital is directed not to publish any information obtained via the Ambulance Data Set by complying with the Ambulance Data Set Directions 2022.

### Dissemination

In accordance with section 261(2)(e) of the 2012 Act, despite any prohibition on publication, NHS Digital may disseminate under section 261(1) of the 2012 Act the information it has obtained by complying with these Directions, where section 261(1) would otherwise not apply due to the restriction on publication, and where it would be lawful for NHS Digital to do so.

In accordance with section 262(3)(a), NHS Digital is directed to use its powers under section 261(4) of the 2012 Act to disseminate the information collected under the Directions to the Ambulance Service that provided the information.

Access to the data held by NHS Digital will be managed by the Data Access Request Service. Organisations receiving data from NHS Digital are documented in the NHS Digital Data Release Register: <https://digital.nhs.uk/services/data-access-request-service-dars/register-of-approved-data-releases>

## Persons consulted

Consultation has been undertaken by NHS England and NHS Improvement and involved the following:

### Project and Content Consultation (06/07/21)

	ADS Project Board	Clinical Content Development Group	ADS Events	Information provided to/ Attendance at meetings	Ad Hoc Correspondence
East of England Ambulance Service		X	X		
East Midlands Ambulance Service		X	X		
Isle of Wight Ambulance Service		X	X		
London Ambulance Service	X	X	X		
North East Ambulance Service		X	X		
North West Ambulance Service	X	X	X		
South Central Ambulance Service		X	X		
South East Coast Ambulance Service		X	X		
South Western Ambulance Service		X	X		
West Midlands Ambulance Service	X	X	X		
Yorkshire Ambulance Service	X	X	X		
AACE Chief Executives Group	X				
Ambulance Leadership Forum (ALF)	X			X	
National Medical Directors Group (NASMED)	X		X	X	
National Director of Operations Group (NDOG)			X	X	
National Heads of IM&T Group			X	X	
National Head of Communications Group (NACOM)			X	X	
Ambulance Lead Paramedics Group (ALPG)		X		X	

	ADS Project Board	Clinical Content Development Group	ADS Events	Information provided to/ Attendance at meetings	Ad Hoc Correspondence
National Ambulance Information Group (NAIG)	X	X	X	X	
National Ambulance Urgent and Emergency Care Group (NAUECG)				X	
National Ambulance Service Clinical Quality Group (NASCCG)				X	
National Heads of Information Governance				X	X
National Heads of Emergency Operations Centre Group (NHoEoC)			X	X	
AACE Clinical Coding Review Group		X	X	X	
College of Paramedics (CoP)	X	X	X	X	
Ambulance Medical Priority Dispatch System (AMPDS) Representative	X				
NHS Pathways Team (NHS Digital)					X
NHS England/NHS Improvement Performance Analysis Team		X	X		
NHS England/NHS Improvement Strategic Analysis Team				X	X
NHS England/NHS Improvement Data Analytics and Insight Service	X			X	X
NHS England/NHS Improvement Information Governance				X	X
NHS England/Improvement Communications Team	X				
Avoidable Conveyance Steering Group				X	
Ambulance Transformation Forum	X			X	
Clinical Quality Indicators Sub-Group	X	X		X	
National Ambulance Transformation Monthly Update Meeting				X	
National Ambulance Commissioner Network (NACN)	X			X	

	ADS Project Board	Clinical Content Development Group	ADS Events	Information provided to/ Attendance at meetings	Ad Hoc Correspondence
Model Hospital Team	X				X
Mental Health Steering Group	X			X	
Patient Level Information and Costing System (PLICS)					X
National Ambulance Strategic Partnership Forum (NASPF)				X	
Professional Record Standards Body (PRSB)				X	
Sheffield School of Health and Related Research (SchARR)				X	X
Air Ambulances UK				X	X
RNLI				X	X
Commissioning Support Units (CSU)/Clinical Commissioning Groups (CCGs)					X
Public Health England				X	X
Royal College of Midwives					X
Specialised Commissioning (NHSEI)					X
Pricing Team (NHSEI)					X
Internal review by NHS Digital Teams: Data Model & Dictionary Terminology & Classifications Delivery Data Set Development Service Data Standards Assurance Service Data Alliance Partnership Board Secondary Care Analysis DPO & IG Compliance PLICS				X	X
Northern Ireland Ambulance Service				X	X

	ADS Project Board	Clinical Content Development Group	ADS Events	Information provided to/ Attendance at meetings	Ad Hoc Correspondence
Scottish Ambulance Service				X	X
Welsh Ambulance Service				X	X
Sheffield Emergency Care Forum					X
Lay Advice for Diabetes and Endocrine Research (LADDER) Panel					X
Online Advisory Panel					X
Independent Cancer Patient's Voice					X
Yorkshire and Humber Consumer Research Panel (YHCRP)					X
Stroke & Aphasia PPI panel					X
Across the Care Group Panel for Combined Community Acute Care Group (CCAG)					X

## Scope of the collection

Under section 259(1)(a) of the Health and Social Care Act 2012, this Notice is served in accordance with the procedure published as part of the NHS Digital duty under section 259(8) on:

- Ambulance Services in England.

In line with the national data opt-out operational policy guidance, national data opt-outs will NOT apply to the flow of Ambulance Data Set data to NHS Digital, as the data collection is legally required under section 259 of the Health and Social Care Act 2012.

National data opt-outs will be applied to any dissemination of data collected via this DPN, including any products derived from such data, in line with the national data opt-out operational policy guidance: <https://digital.nhs.uk/services/national-data-opt-out-programme/operational-policy-guidance-document>

### Restricted data (including Legally Restricted)

Legal restrictions must be applied to the processing of Ambulance Data Set data including the exclusion of patient information relating to In Vitro Fertilisation (IVF) and gender recognition where this information can identify the data subject.

This Data Provision Notice only applies to the Computer Aided Dispatch data component of the implementation and therefore none of the data is restricted.

Under section 259(5) of the Health and Social Care Act 2012; the organisations specified in the above Scope must comply with the Form, Manner and Period requirements below.

## Form of the collection

### Activity to be flowed

Ambulance data must be flowed to NHS Digital in accordance with the data content requirements, available here: [Ambulance Data Set \(ADS\) FHIR Bundle Implementation Guide, Data Mapping](#). This DPN covers CAD data only. EPR data will be added to the data set and a further DPN will be issued to cover this further requirement.

## Manner of the collection

Data items must be submitted daily (including weekends and statutory holidays) between 03:00 and 06:00 from the Ambulance Service's data warehouse to the Ambulance Analytics API hosted on the NHS Digital API Management Platform.

A full list of the CAD data items is available via the FHIR link above. The CAD data items can be flowed to NHS Digital more frequently than daily if the trust chooses to do so, but this is not a requirement of this Data Provision Notice.

## Period of the collection

This DPN covers the first phase of the implementation into live service, which is the CAD element of the Ambulance Data Set.

Future updates to the DPN relating to the EPR pilot (which will apply to the Ambulance services involved in that pilot), and the second phase in which the EPR component of the data will be implemented into live, will be issued at a future date.

NHS Digital will collect, and therefore Ambulance Services must flow, Ambulance Data Set CAD data in accordance with [the Direction](#), from the date of this DPN until NHS Digital is instructed otherwise by NHS England.

As the Ambulance Data Set is being implemented into live service in two distinct phases (because the data upon which it relies is populated from two different sources (EOC/CAD and EPR)), the period covered by this DPN covers the first CAD data only and will be superseded by a further DPN when EPR data (and therefore the full collection) is to be implemented into live.

## Data quality

Providers of publicly funded Ambulance Services are to conform to the NHS England and NHS Improvement ADS Technical Guidance and Business Rules.

Data quality issues will be highlighted in a weekly data quality report issued to the Ambulance Services for them to take further action. Providers of ADS should make every effort to resolve inherent systemic errors and address recurring data quality issues.

A pseudonymised copy of ADS data will be supplied to NHS England and NHS Improvement. This data will enable NHS England and NHS Improvement to assess data quality and plan any resultant actions.

## Burden of the collection

### Steps taken by NHS Digital to minimise the burden of collection

In seeking to minimise the data collection burden imposed on others, and in line with sections 253(2a) and 265(3) of the Health and Social Care Act 2012, NHS Digital has an assessment process to validate and challenge the level of burden incurred through introducing new information standards, collections and data extractions.

This assessment is carried out by the Data Standards and Assurance Service (DSAS) which assures burden assessment evidence provided as part of the overarching Data Alliance Partnership Board (DAPB) process. The DAPB, acting under authority of the Secretary of State, oversees the development, assurance and acceptance of information standards, data collections and data extractions for the health and social care system in England.

As the required Ambulance Data Set data is already captured by existing CAD and EPR systems and will flow automatically from the Ambulance Services to NHS Digital, there is no additional data capture/data submission activity to represent a burden.

The Ambulance Data Set supports the reporting of ambulance activity from all 11 emergency Ambulance Service providers in England to meet a wide range of national and local requirements and in doing so reduces the need for separate data flows (see below).

### Burden assessment findings

The following entries are an extract from NHS England and NHS Improvement's 'Informatic Burden Review' (which involved the National Ambulance Informatics Group) and shows how the Ambulance Data Set is expected to reduce burden:

- Definitive source – enables collection of data once in a standard format and of required data quality to enabling subsequent reporting of:
  - Model Ambulance
  - Daily NHSI Metrics (BI)
  - RT NHSI Metrics
  - NHSEI Winter Room
  - Weekly ARP Dashboard
  - National Director of Operations Group (NDOG) Handover Information
  - Police Data
  - Prison Data

It is possible that the Ambulance Data Set once established to meet the necessary data quality standards can also achieve further burden reductions in the following areas.

- National FOI Requests
- Association of Ambulance Chief Executives (AACE) data requests
- NDOG data requests
- National Medical Directors Group (NASMED) data requests
- Clinical Coding review data requests
- Go live data requests for national system changes
- Clinical Practice reviews and comparison data requests
- National Clinical Audits data requests.

**For further information**

**[www.digital.nhs.uk](http://www.digital.nhs.uk)**

**0300 303 5678**

**[enquiries@nhsdigital.nhs.uk](mailto:enquiries@nhsdigital.nhs.uk)**

Under the Open Government Licence you are encouraged to use and re-use the publicly accessible information in this notice free of charge. Re-use includes copying, issuing copies to the public, publishing, broadcasting and translating into other languages and its subsequent use in commercial or non-commercial enterprise.