



INTERWEAVE
CONNECTING CARE

Cookbook for Regional Interoperability
Detailed Design Paper #013

Interfaces with the Organisational Data
Service (ODS)

PRELIMINARY DRAFT

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Abstract Interoperability Cookbook Anchor Points

Section	Title
6.3	Resource Identification and Disambiguation

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1 Introduction

1.1 Purpose of this Document

This document is one of a series of design papers which underpin the Abstract of a Cookbook for Regional Interoperability (the Abstract Cookbook). These papers, in their totality, describe the technical components and the standards which form the YHCR System of Systems (SoS). They are intended as a basis for developing or procuring software and so are expressed at a level of precision which aims to avoid ambiguity, but this means that they are focussed to technical readers.

Design papers are anchored to topics which are discussed in the Abstract Cookbook. They are elaborations of the concepts which were first introduced by the abstract and new content is further detail rather than variations of previously established core principles.

This document (design paper 013 - "Interfaces with the Organisational Data Service (ODS)") describes the relationship between the YHCR and the national SPINE service which manages organisation and practitioner codes and is the primary source of data about entities which are part of, or interact with, the NHS.

A relationship is necessary because of the requirement for YHCR to disambiguate key concepts and so present the regional longitudinal care record as a unified data model. This is discussed by design paper 001 - "A Unified Distributed Data Model for FHIR". In brief the unified model entails managing a regional set of master data for key physical concepts, the definition of which spans multiple health and care organisations. These concepts include:

- Patients.
- Practitioners.
- Organisations.

Data which references a local version of one these concepts is rebased as it travels through the System of Systems to reference the regional version of the resource.

The regional version of these resource types is termed the 'golden record'. Assembling the golden record for Patients is the subject of design paper 011 – "Interfaces with the Personal Demographic Service (PDS)". Assembling the golden record for Practitioners and Organisations is the subject of this paper.

1.2 What is the Organisational Data Service and what Data does it Hold?

The Organisation Data Service (ODS) is responsible for publishing organisation and practitioner codes, along with related national policies and standards. It is also responsible for the ongoing maintenance of the organisation and person nodes of the Spine Directory Service, the central data repository used within various NHS systems and services.

English ODS datasets are maintained for the following entities:

- GPs, GP Practices, Nurses and Pharmacies.
- Health Authorities and Support Agencies.
- Hospital Consultants.
- Treatment Centres, Hospices, Path Labs and Education Establishments.

- Dental Practices and Practitioners.
- Optical HQ and Optical Site.
- Justice Organisations.
- Prisons.
- Local Authorities.
- Schools.
- Care Homes.
- Independent Sector Healthcare Providers.
- Care Trusts and Sites.
- NHS Trusts and Sites.
- Clinical Commissioning Groups and Sites.

Other datasets are maintained for Welsh, Scottish and Northern Irish entities. All are potentially valuable as master data for the YHCR but at this stage focus is placed on:

- Hospital Consultants.
- General Practitioners.
- General Practices.
- NHS Trusts.

1.3 Relationship of this Document with Other Standards

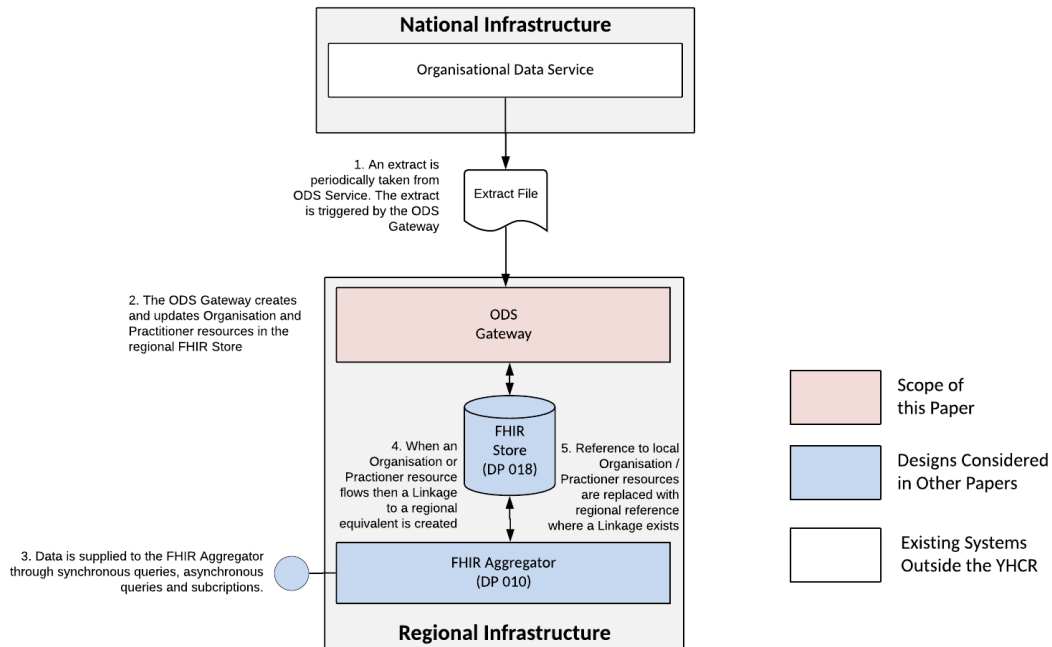
This design paper uses FHIR resource structures defined by <https://hl7.org/fhir/stu3>

1.4 Intended Users of the This Document

Developers of the System of Systems.

2 Relationship with Other Components of the System-of-Systems

This paper describes the functionality of an ODS Gateway Service. This service interacts with other components of the System-of-Systems and with national services as illustrated below.



Extracts are periodically taken from ODS by the ODS Gateway. The periodicity is specified in the YHCR Operations Guide. Extracts are in zip file format. Separate files are extracted for different categories of ODS entity. The files extracted are listed in section 2.1.

The ODS Gateway unzips the extracted file and for each entity included, updates or creates a Practitioner or Organisation resources in a regional FHIR store.

These resources are used by the FHIR Aggregator to disambiguate the concepts of Organisation and Practitioner. The process is detailed in design paper 010

2.1 ODS Files Extracted

The following files are extracted from ODS (filename in parenthesis):

- Hospital Consultants (econcur).
- General Practitioners (egpcur).
- General Practices (epraccur).
- NHS Trusts (etr).

3 Data Transformations

The contents of the unzipped file extracted from ODS is in comma separated value format. For each row the ODS Gateway modifies or creates a FHIR resource by transforming the data in the CSV to resource properties as defined in the following sections.

3.1 Hospital Consultants

Resource Type: Practitioner

Resource Identifier System: <https://fhir.nhs.uk/Id/sds-user-id>

File format: <https://nhsenglandfilestore.s3.amazonaws.com/ods/econcur.pdf>

Target	Source
identifier.system	"https://fhir.nhs.uk/Id/sds-user-id"
identifier.value	Practice Code (col 2)
name.family	Surname (col 3)
name.given	Initials (col 4)

3.2 General Practitioners

Resource Type: Practitioner

Resource Identifier System: <https://fhir.nhs.uk/Id/sds-user-id>

File format: <https://nhsenglandfilestore.s3.amazonaws.com/ods/egpcur.pdf>

Target	Source
identifier.system	"https://fhir.nhs.uk/Id/sds-user-id"
identifier.value	Organisation Code (col 1)
name.family	First part of space delimited Name (col 2)
name.given	Second part of space delimited Name (col 2)

3.3 General Practices

Resource Type: Organization

Resource Identifier System: <https://fhir.nhs.uk/Id/sds-user-id>

File format: <https://nhsenglandfilestore.s3.amazonaws.com/ods/egpcur.pdf>

Target	Source
identifier.system	" https://fhir.nhs.uk/Id/ods-organization-code"
identifier.value	Organisation Code (col 1)
name	Name (col 2)
address[0].line[0]	Address Line 1 (col 5)
address[0].line[1]	Address Line 2 (col 6)
address[0].line[2]	Address Line 3 (col 7)
address[0].line[3]	Address Line 4 (col 8)
address[0].line[4]	Address Line 5 (col 9)
address[0].postcode	Postcode (col 10)

3.4 NHS Trusts

Resource Type: Organization

Resource Identifier System: <https://fhir.nhs.uk/Id/sds-user-id>

File format: <https://nhsenglandfilestore.s3.amazonaws.com/ods/etr.pdf>

Target	Source
identifier.system	" https://fhir.nhs.uk/Id/ods-organization-code"
identifier.value	Organisation Code (col 1)
name	Name (col 2)
address[0].line[0]	Address Line 1 (col 5)
address[0].line[1]	Address Line 2 (col 6)
address[0].line[2]	Address Line 3 (col 7)
address[0].line[3]	Address Line 4 (col 8)
address[0].line[4]	Address Line 5 (col 9)
address[0].postcode	Postcode (col 10)

Appendix 1 – Maturity Matrix

Section	Narrative	Consultative	Draft	Normative
1 Introduction	X			
1.1 Purpose of this Document				
1.2 What is the Organisational Data Service and what Data does it Hold?				X
1.3 Relationship of this Document with Other Standards	X			
1.4 Intended Users of the This Document	X			
2 Relationship with Other Components of the System-of-Systems			X	
2.1 ODS Files Extracted				
3. Data Transformations		X		
3.1 Hospital Consultants				
3.2 General Practitioners		X		
3.3 General Practices		X		
3.4 NHS Trusts		X		