



Open
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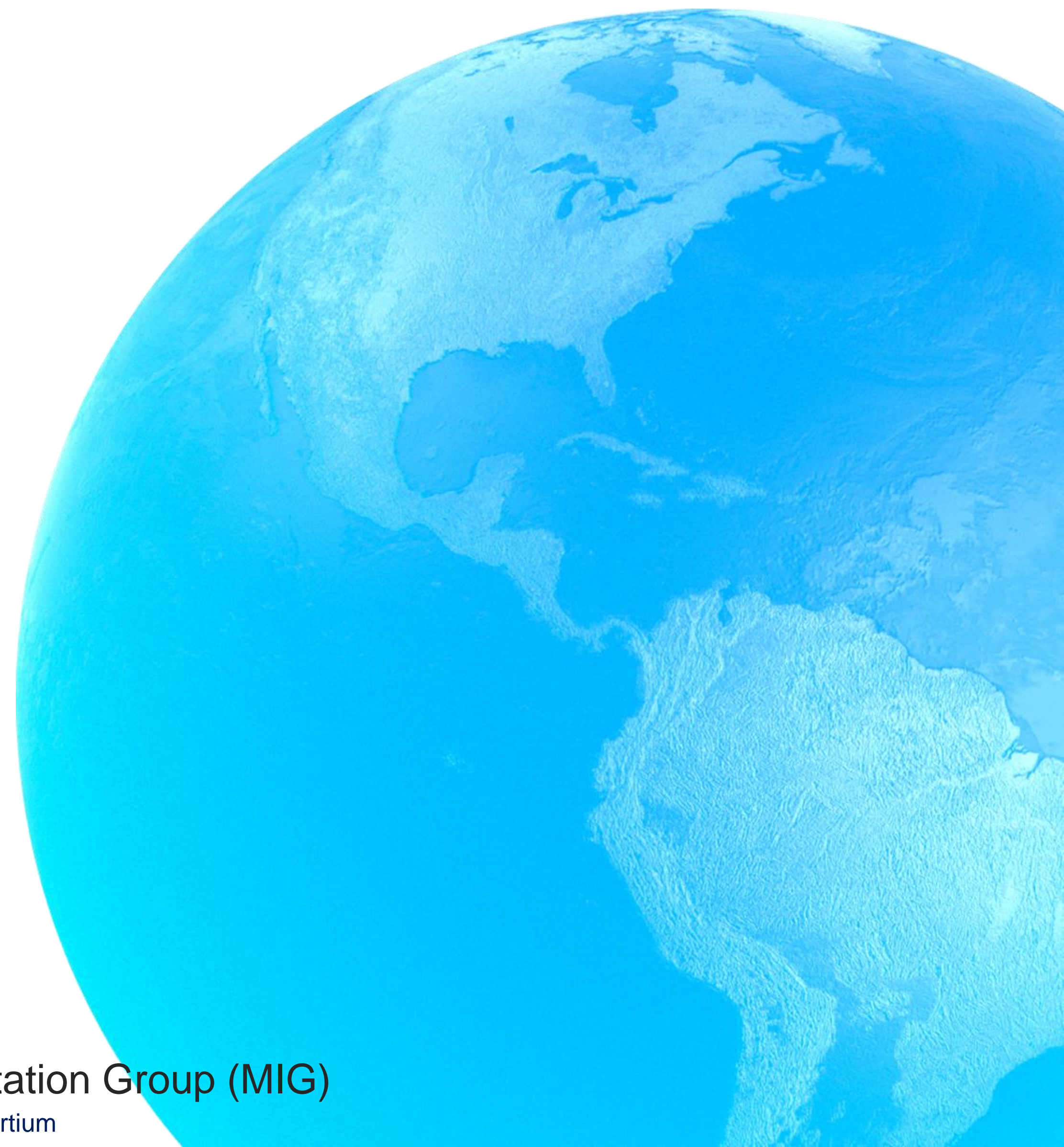
OGC API – Records for INSPIRE

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Introduction

- OGC API - Records provides a way to browse or search a curated collection of records known as a catalogue.
- A **record** makes a resource discoverable by providing summary information (e.g. metadata) about the resource.
- A **resource** is anything that would be useful to a user or developer, such as features, coverages, tiles / maps, assets, machine models, services, widgets, etc.
- Status of **OGC API – Records – Part 1: Core** Candidate Standard

Overview of the API

Resource	Path	HTTP method
Landing page	/	GET
Conformance declaration	/conformance	GET
Record collections	/collections	GET
Record collection	/collections/{collectionId}	GET
Records	/collections/{collectionId}/items	GET
Record	/collections/{collectionId}/items/{recordId}	GET

Deployment

- **Crawlable Catalogue**
 - As a collection of static records, stored in web-accessible files
 - Typically co-located with the resources each record is describing
- **Searchable Catalogue**
 - As a collection of records accessed via an API with well known endpoints
 - Supports retrieval of records and searching of the catalogue for sub-sets of records
- **Local Resources Catalogue**
 - Composed of a list of resources offered by an OGC API deployment.

Building Blocks

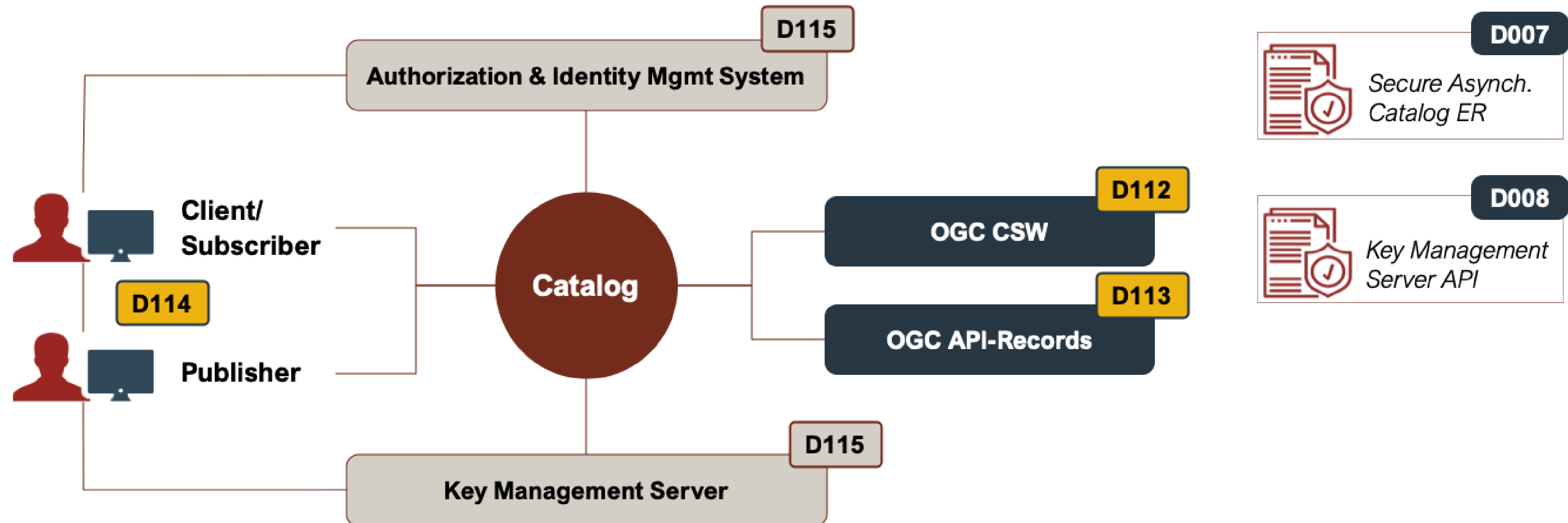
Building block	Catalogue requirements class		
	Crawlable	Searchable	Local Resources catalogue
Record Core	Mandatory	Mandatory	Mandatory
Record collection	<i>Optional</i>	Mandatory	Mandatory
Records API	<i>Optional</i>	Mandatory	Mandatory
Sorting	<i>Optional</i>	<i>Optional</i>	<i>Optional</i>
CQL2	<i>Optional</i>	<i>Optional</i>	<i>Optional</i>
JSON-Record	<i>Optional</i>	<i>Optional</i>	<i>Optional</i>
HTML-Record	<i>Optional</i>	<i>Optional</i>	<i>Optional</i>

Envisaged JSON Encoding

- Representation of ISO 19115-1 metadata in JSON
- Valid GeoJSON
- Alignment with STAC for imagery dataset metadata

Innovation in OGC Testbed-18

- Secure, Asynchronous Catalogs
 - The task aims at developing **ISO 19115** support for OGC API-Records.
 - It shall explore Data Centric Security (DCS) in the context of OGC API-Records.
 - The work shall further explore asynchronous communication with OGC API-Records instances.



September 2022 Joint OGC and ISO/TC 211 Code Sprint

- Official announcement due by end of July at <https://www.ogc.org/pressroom/pressreleases>
- Covering OGC API Records, ISO 19115, JSON-FG, and STAC
- Date: 14th to 16th September 2022
- Venue: Geovation Hub in London, UK

Tentative Dates and
Venue

Benefits for the INSPIRE Community

- Alignment with ISO 19115-1 means that more INSPIRE metadata can be supported
- Greater extensibility of Web APIs based on the OpenAPI Specification
- Faster software development, facilitated by API definition documents that are more machine-readable

Thank You

Community

- 500+ International Members
- 110+ Member Meetings
- 60+ Alliance and Liaison partners
- 50+ Standards Working Groups
- 45+ Domain Working Groups
- 25+ Years of Not for Profit Work
- 10+ Regional and Country Forums

Innovation

- 120+ Innovation Initiatives
- 380+ Technical reports
- Quarterly Tech Trends monitoring

Standards

- 65+ Adopted Standards
- 300+ products with 1000+ certified implementations
- 1,700,000+ Operational Data Sets
- Using OGC Standards

