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OGC API Coverages

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OGC API Coverages - Intro



- Establishes how to access coverages as defined by the Coverage Implementation Schema (CIS) 1.1 through OpenAPI
- Current scope
 - Only gridded coverages are addressed, not MultiPoint/Curve/Surface/SolidCoverages.
 - Only GeneralGridCoverage is addressed, other coverage types will follow later.
 - Only coverage extraction functionality is considered, not general processing
 - Subsetting is considered in the query component only for now.



OGC API Coverages - Paths



From Common

- Path = /
- Path = /api
- Path = /conformance
- Path = /collections/
- Path = /collections/{collectionId}
- Path = /collections/{collectionId}/coverages
 - Returns list of coverages in the collection. Supports bbox parameter.
- Path = /collections/{collectionId}/coverages/{coverageID}
 - Returns the coverage itself. Typically as an image file.
- Path = /collections/{collectionId}/coverages/{coverageID}/domainset
 - Returns a description of the domain set of the coverage
- Path = /collections/{collectionId}/coverages/{coverageID}/rangetype
 - Returns a description of the range type of the coverage
- Path = /collections/{collectionId}/coverages/{coverageID}/metadata
 - Returns additional metadata about a coverage.



OGC API Coverages - Issues



- Issue 21: Tree structure vs features API
 - features and coverages in same service?
- Issue 19: Identifier syntax for OAPI Common
 - any restrictions (cf. NCNAME)
- Issue 15: What extensions should API Coverages have?
 - CRS transformation extension part of common?
 - Guidance for extensions & application profiles

https://github.com/opengeospatial/ogc_api_coverages/projects/1



OGC API Coverages - Issues



- HTML representation
 - Issue 13: HTML not optimal for findability/discovery
 - Issue 14: Coverage representation in HTML
 - Hypermedia As The Engine Of Application State (HATEOAS)
 https://en.wikipedia.org/wiki/HATEOAS
- Issue 9: Make use of HTTP headers
 - Multiple formats in one request (multipart/related; JSON + GeoTIFF)
 - Guidance from common (#28)

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OGC API Coverages - Issues



- Issue 8: Coverage collections
 - Hierarchies, nesting, member of more than one set, and not member of any set
 - Unique IDs needed?
 - OpenAPI Common CRS: representation of same coverage in different CRS
- Issue 5: How to model resource (sub) selection based on the coverage model
 - Guidance for using conformance classes from common

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