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OGC API Maps and Tiles

OGC API Hackathon 2019
London, United Kingdom
20 June 2019



Introduction

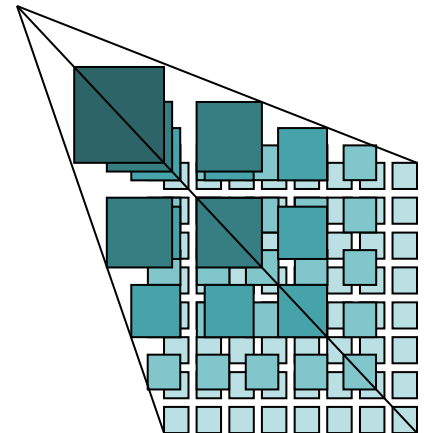


- Defines an OGC standard for a Web Map and Tile API that can serve map tiles and/or maps of spatially referenced data
 - It will probably be composed by a family of conformance classes/standards/documents
- Describes the discovery and query operations of an API that provides access to Maps and Tiles in a manner independent of the underlying data store
- Builds upon (and unifies) the WMS 1.3 and WMTS 1.0 standards and recent work on Tiled Feature Data (a.k.a. *vector* tiles).
- Uses the recently approved 17-083r1 OGC Tile Matrix Set Standard (web publication pending. Available on “pending”) as a baseline to describe tiles tile spaces and tile schemas.

OGC API Maps and Tiles – Paths (1)




- Path = /
 - Returns landing page (inherited from OGC API - Common)
- Path = /conformance
 - Returns a set of conformance class URIs. (inherited from OGC API - Common)
- Path = /collections
 - Returns metadata describing the collections accessible through this API (inherited from OGC API - Common)
- Path = /collections/{collectionId}
 - Returns metadata describing if a {collectionId} is available as a map or as tiles
- Path = /tileMatrixSet
 - Returns all available tile matrix sets (tiling schemes)
- Path = /tileMatrixSet/{tileMatrixSetId}
 - Returns a tiling scheme by id



OGC API Tiles – Paths (2)

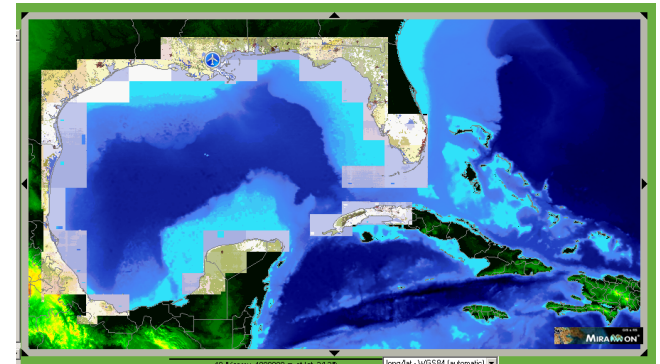


- Path = /tiles/{styleId}/{tileMatrixSetId}/{tileMatrix}/{tileRow}/{tileCol}
 - Returns a tile of the dataset
 - Path = /collections/{collectionId}/tiles/{styleId}/{tileMatrixSetId}/{tileMatrix}/{tileRow}/{tileCol}
 - Returns a tile of the collection
- 
- Path = /tiles/{styleId}/{tileMatrixSetId}/{tileMatrix}/{tileRow}/{tileCol}/info
 - Returns information on a point of a tile
 - Path = /collections/{collectionId}/tiles/{styleId}/{tileMatrixSetId}/{tileMatrix}/{tileRow}/{tileCol}/info
 - Returns information of a point in a tile of the collection

OGC API Maps – Paths (3)



- Path = /map
 - Returns a map of the dataset
- Path = /collections/{collectionId}/map/{styleId}/
 - Returns a map of a collection
- Path = /map/info
 - Returns information on a point of a map
- Path = /collections/{collectionId}/map/{styleId}/info
 - Returns information of a point in a map of a collection



OGC API MultiTile – Paths (4)



- Path = /tiles/{tileMatrixSetId}
 - Returns tiles from several collections.
- Path = /collections/{collectionId}/tiles/{tileMatrixSetId}
 - Returns tiles of a collection

Issues



- ☐ **❗ Possible copy and paste errors in the path summaries**
#9 opened 38 minutes ago by ghobona
- ☐ **❗ Is the /api path missing from opf-map-tiles-api.yaml?** 💬 2
#8 opened 40 minutes ago by ghobona
- ☐ **❗ How to know that a collection of a collectionId is available as a map or tiles?**
#5 opened on 2 May by joanma747
- ☐ **❗ Non-JSON content** 💬 2
#3 opened on 22 Mar by cmheazel
- ☐ **❗ Content Metadata**
#2 opened on 22 Mar by cmheazel
- ☐ **❗ Service Metadata**
#1 opened on 22 Mar by cmheazel

<https://github.com/opengeospatial/OGC-API-Map-Tiles/issues>



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