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OGC API – Features

formerly known as "WFS 3.0"

OGC API Hackathon 2019
London, United Kingdom
20 June 2019

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Making location count.

OGC API – Features

- **OGC API standards** define modular API building blocks to spatially enable Web APIs in a consistent way

- **OGC API Features** specifies the fundamental API building blocks for interacting with features (create, modify and query features on the Web)

- Started as a revision of the OGC Web Feature Service standard that
  - proposes a modernized service architecture,
  - leverages the OpenAPI specification,
  - follows the current Web architecture and the (Spatial) Data on the Web Best Practices,
  - has a focus on the developer experience,
  - modularizes WFS into building blocks for fine-grained access to spatial data that can be used in data APIs,
  - is developed in a open process doing all work in a public GitHub repository, early implementations, in-depth validation, slow release

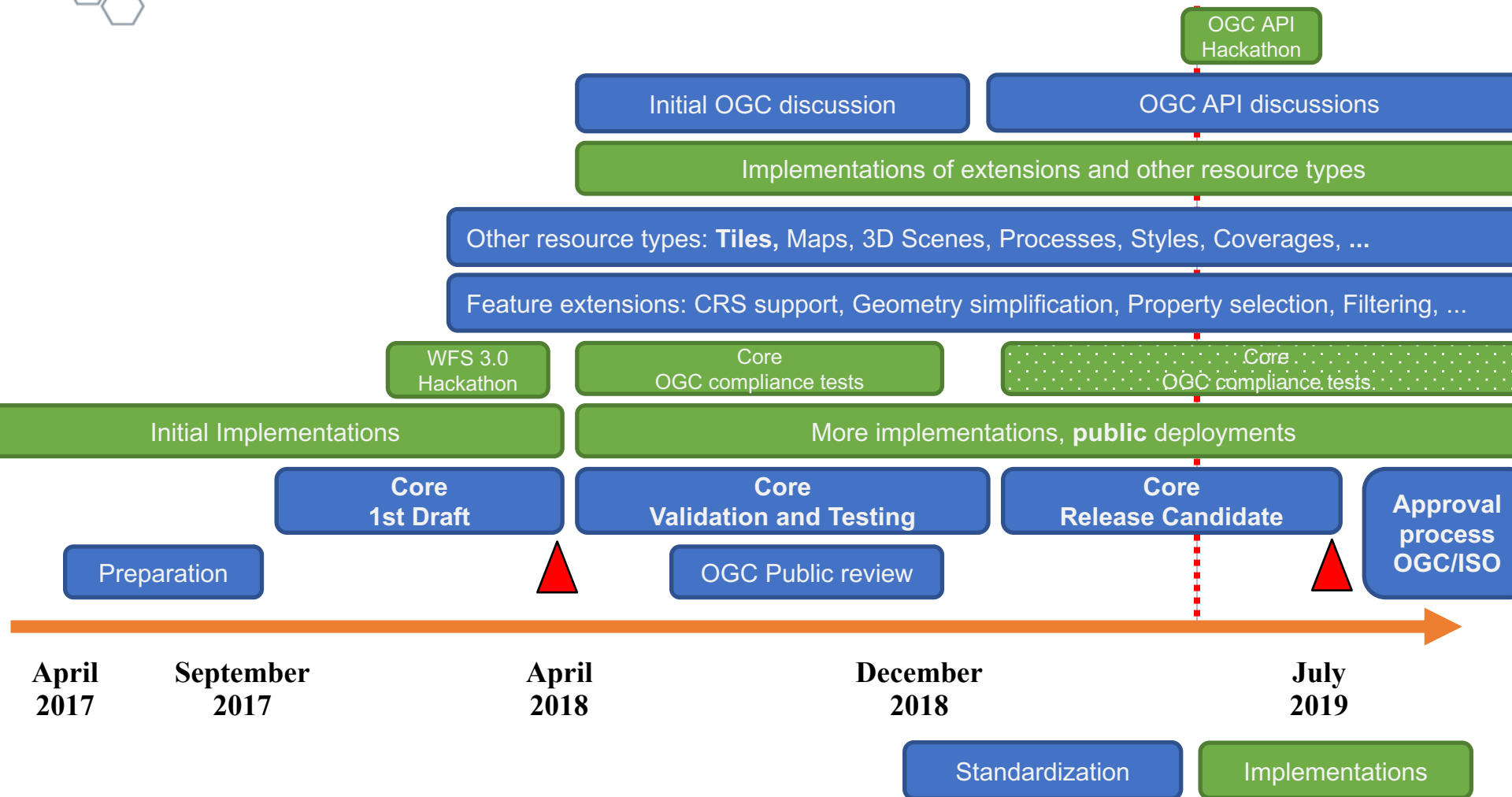**OGC**®

OGC API – Features – Part 1: Core

Resources of the Web API

Table 1. Overview of resources, applicable HTTP methods and links to the document sections

Resource	Path		HTTP method	Document reference
Landing page	`/`	*information about the API*	GET	7.2 API landing page
API definition	`/api`		GET	7.3 API definition
Conformance declaration	`/conformance`		GET	7.4 Declaration of conformance classes
Feature collections	`/collections`	*a dataset with a sub-division into named collections of features*	GET	7.12 Feature collections
Feature collection	`/collections/{collectionId}`		GET	7.13 Feature collection
Features	`/collections/{collectionId}/items`		GET	7.14 Features
Feature	`/collections/{collectionId}/items/{featureId}`	*the features*	GET	7.15 Feature

http://docs.opengeospatial.org/DRAFTS/17-069r1.html#tldnr

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OGC API – Features – Part 1: Core Schedule

OGC API Hackathon

Initial OGC discussion

OGC API discussions

Implementations of extensions and other resource types

Other resource types: **Tiles,** Maps, 3D Scenes, Processes, Styles, Coverages, **...**

Feature extensions: CRS support, Geometry simplification, Property selection, Filtering, ...

WFS 3.0 Hackathon

Core OGC compliance tests

Core OGC compliance tests

Initial Implementations

More implementations, **public** deployments

Core 1st Draft

Core Validation and Testing

Core Release Candidate

Approval process OGC/ISO

Preparation

OGC Public review

| April 2017 | September 2017 | April 2018 | December 2018 | July 2019 |

Standardization

Implementations

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Current progress

- 70 issues closed
- 4 issues depend on actions by the OpenAPI Initiative
  - Default action will be decided in Leuven next week
- 4 issues marked for OGC API Hackathon input
  - See next slide
- Final editing planned for July
  - Update of the Abstract Test Suite
  - Update contributors/submitters
  - Collect examples
  - Add anchors for examples

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

OGC API – Features – Part 1: Core

Expectations

- The draft OGC API Common is currently consistent with OGC API Features
  - Please raise any concerns on Common *now* while we are still editing the Features spec

- Issues marked for OGC API Hackathon input
  - We will keep the Core as it currently is unless there is a convincing case that the capability is important for most datasets / clients
  - #154: ability to express aggregation or other relationships between collections?
  - #228: tags/keywords for the API?
  - #231: "when" member in GeoJSON features for temporal information?
  - #233: do not use WGS 84 lat/lon(/h) as the common default CRS for providing feature data?

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