[OGC API Resource Representation Model (Collections, etc.)](https://portal.ogc.org/index.php?m=projects&a=view&project_id=228&tab=5&act=details&issue_id=1465) was discussed by the OAB on 2020-03-31. This summary of the OAB discussion is provided for the SWG to consider in revision of the API Common spec:

* Collection is to be an optional clause in API Common  
  -- This needs to be clarified in API Common
* API Building Blocks design pattern  
  -- Conformance class path lists the components available at a deployed API. API implementation could include components from several API specs, e.g., Features, Coverages, EDR, Maps, Processing, etc.  
  -- Prepare a sequence diagram showing how a client uses the conformance path return (a list of URIs; paths and hyperlinks) and handles each resource type appropriately, e.g. [Feature/Coverage/Processing API Convergence](https://docs.google.com/presentation/d/1gMpGKc6JnsCHUATH21E1VWC-80ItvxMW8Wdkdhy4n-g/edit#slide=id.g7c491e0892_7_13) from January 2020 Sprint.
* Taxonomy of Resource Types  
  -- Define a taxonomy of resource types and clarify the aggregation of resources in API Common, e.g., [Resource Taxonomy](https://portal.ogc.org/files/?artifact_id=92731) from June 2019 Sprint  
  -- What to call an aggregation of items? Collection, container,  
  -- Need to clarify what is a Geospatial Resource.

Also note the [OGC Policy Directive: 47](https://portal.ogc.org/public_ogc/directives/directives.php): paraphrased: All OGC API SWGs will work on their respective standards with other SWGs; and report on that interaction using the template in advance of an OAB review.

A part of the discussion in the OAB was a list of references related to "Collections." This list was not included in the summary, so it is provided here only as background and a personal contribution.

* Collection in OGC Baseline  
  -- ISO 19115-1:2013 - 4.4 dataset series - collection of datasets (4.3) sharing common characteristics  
  -- GML Version: 3.2.2 - 9.9.1 GML feature collections - A GML feature collection is a collection of GML feature instances.  
  -- [OpenSearch for EO - 4.1 Collection](http://docs.opengeospatial.org/is/13-026r8/13-026r8.html#5): A Collection or a Dataset Series (in short Series) defines a container for a list of Products (or datasets) that have common properties. Products inherit all the Collection properties that are not explicitly overridden.  
  -- [SOSA SSN](https://github.com/opengeospatial/oapi_common/issues/www.w3.org/TR/vocab-ssn-ext/#sosa:ObservationCollection) - Collection of one or more observations, whose members share a common value for one or more property
* additionally  
  -- [STAC](https://github.com/opengeospatial/oapi_common/issues/github.com/radiantearth/stac-spec/tree/master/collection-spec) ...the concept we are describing here, a set of assets that are defined with the same properties and share higher level metadata. Others called it: dataset series (ESA, ISO 19115), collection (CNES, NASA), dataset (JAXA), product (JAXA).  
  -- [THREDDS Catalog](https://www.unidata.ucar.edu/software/tds/current/catalog/InvCatalogSpec.html) A dataset is direct if it contains at least one dataset access method, otherwise it is just a container for nested datasets, called a collection dataset.

It is clear that different communities, domains, and applications use the term "Collection" refer to a set of one or more members, but differ on the characteristics of those members, the nature of membership, the characteristics common to all members, and acceptable relationships between collections. This suggests that API Common needs at least to allow for different collection types to specify clearly the above collection properties for a particular API purpose.

Hi,  
I followed partly the telco today but at the end I was confused...

Will there be no geospatial resource be defined in "Core" ?  
The whole concept of collection will be moved to an OGC common component registry (including navigation for items) ?  
Will the common query operations also be moved to an OGC common component (including the common query parameters) ?  
What about “information resources” ?  
Where will the encodings (GeoJSON, HTML) for featureCollections, features go ?