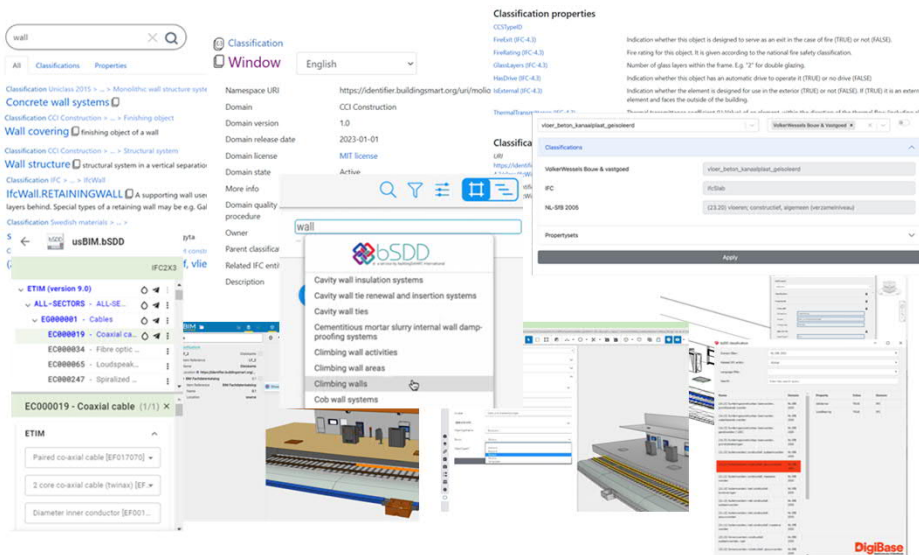# Challenge: Data Dictionary

- The bSDD is a free service from buildingSMART for hosting *Data Dictionaries* – repositories of concepts and properties (classifications).

- It's a common OpenBIM reference for enriching IFC models and IDS requirements.

- bSDD can be accessed through search page, REST API (JSON/HTML/TTL*), or GraphQL*.

- * There are some things to improve (Ontotext's report)

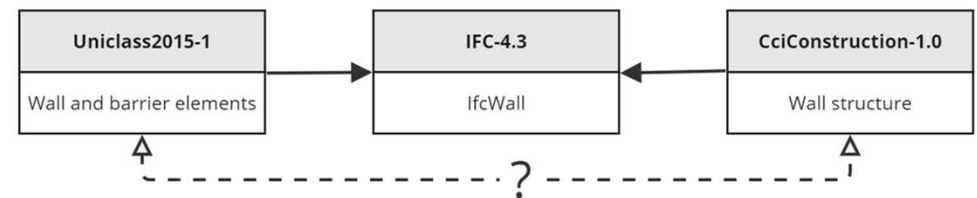*Examples of tools that make use of the bSDD service*

Main questions:

- How can we analyze how data dictionaries are (in)directly related to each other?

- Is such analysis possible without downloading all related dictionaries to a triple store, but with the API available today?

Extra questions:

- Can we use this solution to create new mappings between data dictionaries?

- Can we use this solution to find incorrect/contradictory relationships?

- How can we perform quality checks on bSDD data using linked data technology?

- What could be improved in the bSDD service to make it easier or more useful? ...more F.A.I.R.?
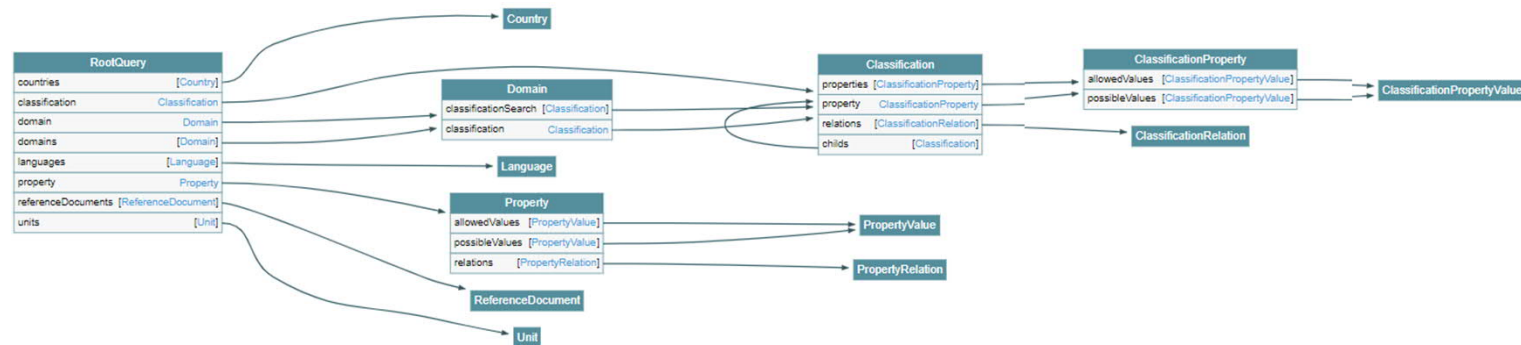
Challenge: Data Dictionary

- Be aware that the data returned by bSDD via different API are slightly different*
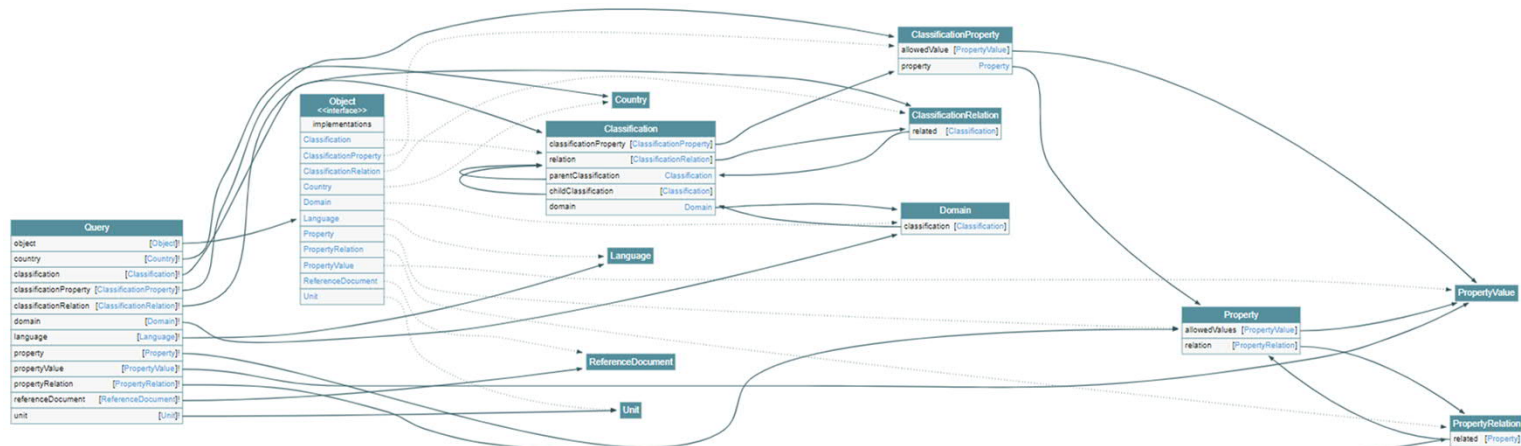
- Available GraphQL endpoints use:
  - original scheme
    from bSI

  - refactored scheme
    from Ontotext

  Ontotext GraphQL scheme contains changes reflected in the Ontotext's report**

Please refer to the comparison of data retrieved via different APIs
** Ontotext report available at https://bsdd.ontotext.com/README.html