ORNL ICAT Site Report

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Differences

- Docker

  - Already talked about that!

- Wrapper REST API around the ICAT REST API

  - ...

Why Have a Wrapper REST API?

- We get to use our own terminology:

    - "experiment" vs "investigation", etc.

    - Different beamlines have different names: "scan" file vs "run" file, etc.

- ICAT REST API perhaps exposes a little too much in implementation details:

    - They need to understand / know about the DB schema and "speak" JPQL.

    - They might have to keep track of entity IDs.

    - Changing internals of ICAT breaks consumer code.

- Allows for caching.

What Does it Look Like?

- /facilities/HFIR/

- /facilities/HFIR/instruments/CG2/

- /facilities/HFIR/instruments/CG2/experiments/IPTS-1234/

- /facilities/HFIR/dataset-types/ct_scan/

TBD:

- One or more generic URLs (with multiple "aliases") tailored towards getting back *all* metadata for an experiment / dataset / datafile.

Who Will Use the Wrapper?

- Ingest scripts

- Autoreduction

- ...