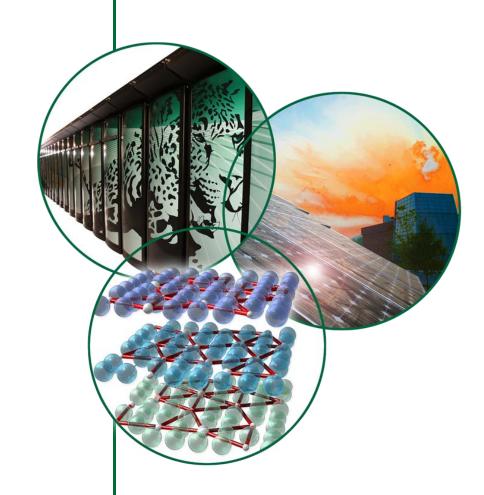
# ICAT4 Restful Web Service

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### **ICAT4** Restful Web Service

#### What is it?

It is a java web application which can:

- call a single search method on an ICAT4 server to retrieve certain metadata that
  has no intrinsic value by itself such as run time/date and experiment data storage
  location
- perform search operations without a login credential
- only execute a set of GET operations. The GET method is a safe method, meaning that calling it produces no side-effects

#### When is this useful?

- need to do simple GET operations on an ICAT4 server such as retrieving experiment run start time and end time for a given proposal by the SNS user office
- need to do simple GET operations on an ICAT4 server such as locating experiment data for a given instrument and run number by software applications

## **ICAT4** Restful Web Service (cont.)

#### *Is anyone using it?*

- used by other SNS divisions such as user office
- used by various SNS applications such as findnexus and isaw
- used by SNS users through the Mantid project in which the FileFinder class invokes the ICAT4 web service to search for archive location for the following algorithms:
  - a. Load
  - b. LoadAscii
  - c. LoadCalFile
  - d. LoadEventNexus
  - e. LoadEventPreNexus
  - f. LoadGSS
  - g. LoadMuonNexus
  - h. LoadNexus
  - i. LoadNXSPE
  - i. LoadRaw



# A framework that supports high-performance computing and visualization of scientific data.

