



Lasers for Science Facility (LSF) use of ICAT

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Background

- LSF collect sets of images as a time sequence
- Need to store these (safely)
- Allow offsite users to process them with in-house applications
- Allow offsite users to run standard interactive applications on their datasets



Components

- **ICAT**

New version of ICAT (4.x) into which we will ingest all their legacy data

- **IDS2 (ICAT Data Server)**

A modified version of the IDS created for the Central Laser Facility. Allows the storage and retrieval of either single files or a full dataset of files all zipped up together.



Components (cont.)

- **Web portal**

Uses ICAT authentication and allows users to search for raw and processed datasets that they have access to. Users can then select a dataset and send it off for processing.

- **Data ingester**

Constantly monitoring a directory for trigger files which contain a directory path. Directory path is passed to an XML dump program written by LSF to describe their data in XML. Contents of the XML dump file are then ingested into ICAT/IDS2



System overview

