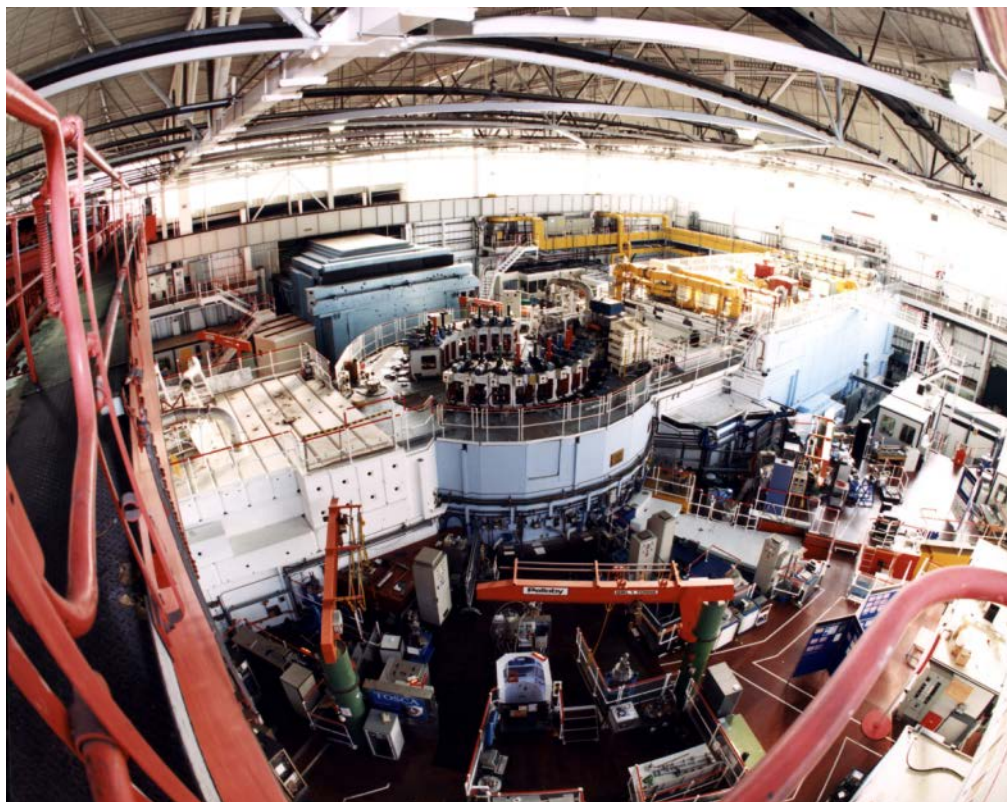


XML Ingest



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Science & Technology Facilities Council

ISIS

Nostalgia



```

<?xml version="1.0" encoding="ISO-8859-1"?>
- <icat xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation=" ../icatXSD/icatXSD.xsd" version="1.0 RC6">
  - <study>
    <name>weld_trans</name>
    <purpose>An investigation</purpose>
    <status>ONGOING</status>
    <study_creation_date>2013-02-24T07:25:45</study_creation_date>
  - <investigation trusted="true">
    <inv_number>1210410</inv_number>
    <visit_id>1</visit_id>
    <instrument>ENGINX</instrument>
    <title>weld_trans</title>
    <inv_type>EXPERIMENT</inv_type>
    <bcat_inv_str>Dong,Zhang,Dodge,Zha -</bcat_inv_str>
  - <keyword>
    <name>weld_trans</name>
  </keyword>
  - <dataset>
    <name>Default</name>
    <dataset_type>EXPERIMENT_RAW</dataset_type>
    <dataset_status>COMPLETE</dataset_status>
    <description>ENG99404 Dong,Zhang,Dodge,Zhaweld_trans 24-FEB-2013 07:25:45 4.87</description>
  - <sample>
    <name>weld_trans</name>
    <safety_information>No information available</safety_information>
  </sample>
  - <datafile>
    <name>ENGINX00199404.raw</name>
    <location>\\isisdatar80\instruments$\NDXENGINX\Instrument\data\CYCLE_12_5\ENGINX00199404.raw</location>
    <description>weld_trans</description>
    <datafile_format>isis neutron raw</datafile_format>
    <datafile_format_version>2</datafile_format_version>
    <datafile_create_time>2013-02-24T07:25:45</datafile_create_time>
    <datafile_modify_time>2013-02-24T07:30:17</datafile_modify_time>
    <file_size>25879552</file_size>
  - <parameter>
    <name>run_number</name>
    <numeric_value>199404</numeric_value>
    <units>N/A</units>
  </parameter>
  - <parameter>
    <name>run_header</name>
    <string_value>ENG99404 Dong,Zhang,Dodge,Zhaweld_trans 24-FEB-2013 07:25:45 4.87</string_value>
    <units>N/A</units>
  </parameter>
  - <parameter>
    <name>number_of_detectors</name>
    <numeric_value>2668</numeric_value>
    <units>N/A</units>
  </parameter>
  - <parameter>

```

Why it is a good idea?

- Anything / anyone can write xml
- Takes a bit more to create a sample, sampleparameter, sampletype etc
- Insulates code
- Easier ingestion
- Supported in Nexus



Why it is a bad idea?

- Controllability
 - Calibration datafiles
 - Facility specific rules
 - What if.....?
- Schema changes



Ideas

- Simplified schema
- Best effort / strict flags
- Control file/parameters
 - Calibration numbers
 - Date ranges
- Plugin
 - Could be modified per facility if required



If I could offer you only one tip for the future, xml ingest would be it.

