

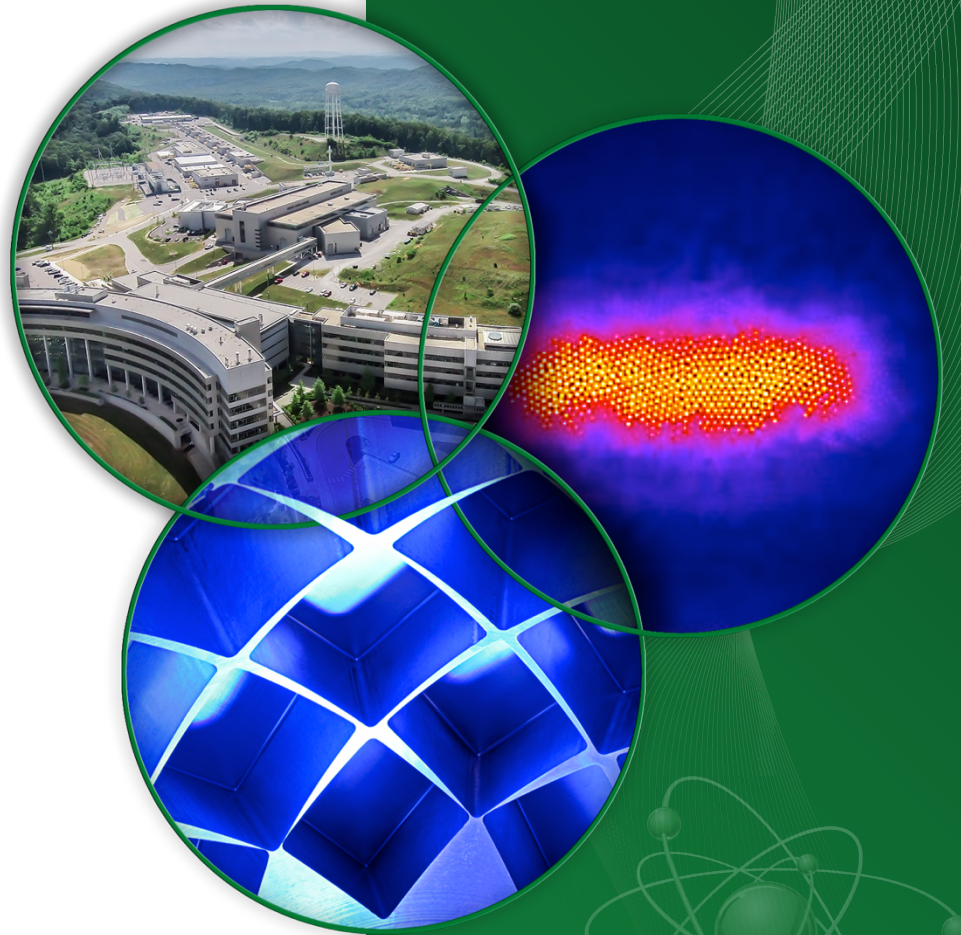
Setting UP Open XAL

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Configuration Items

- Software Prerequisites
- Application Documents and Persistent Logging
- Default Accelerator
- EPICS Channel Access
- Database

Software Prerequisites

- Java JDK 7 (soon Java JDK 8)
- Apache Ant 1.9
- JRuby 1.7
- Jython 2.7

Get and Build Open XAL

```
> git clone https://YourID@git.code.sf.net/p/xaldev/openxal  
> cd openxal  
> ant
```

Documents Directory

- Directory containing all Open XAL documents
- Subdirectory for each application

Setting Documents Directory

1. Launch any document based application
2. Press the “Documents...” button on file browser
3. Select “New Document”
4. File -> Open
5. Press “Default Folder” and answer “Yes”
6. Select the directory to be the Documents Directory
7. Press “Make Default”

Persistent Logging

- Standard Output and Standard Error are logged under root: ~/.xal/logs
- Logs organized by year and application name

Enable Persistent Logging

```
> java -Dxal.admin=true -jar demo.jar
```

- Launch Application
- Select View -> Console
- Check box to enable persistent logging

Set Default Accelerator

1. Launch and accelerator based application
2. Press “New Empty”
3. Press “Use Default Accelerator”
4. Press “Browse” and navigate to optics file (e.g. main.xal)
5. Press “Make Default” and “Close”

EPICS Channel Access

Pure Java Channel Access

Copy JCALibrary.properties file to ~/.JCALibrary/

EPICS Channel Access

Native Channel Access

- Download and Build EPICS
- Build and Install jca JNI library
- Set Java Preference for xal.plugin.jca:
 - ➔ Context = gov.aps.jca.jni.ThreadSafeContext

Database Configuration

1. Install appropriate database plugin
2. Create dbconfig file
3. Launch DB Browser application
4. Select “New Empty”
5. Select “Configure...”
6. Browse to dbconfig file
7. Select “Make Default”