


# Web Applications Status and To-Do List

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## Pipeline

Jira Front-End Jira Back-End

- Ongoing tuning of Oracle database usage
- Switch from exchange server to unix mail server
- Tuning of web interface for ongoing data processing (as opposed to MC Tasks)
- Version 1.0 front-end release

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- Version 2.5 back-end release

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## Data Portal

Jira

## Data Catalog

Jira Front-End Jira Back-End

- L1 data products arranged by groups rather than folders
- ASP output arranged by groups rather than folders
- Documentation
  - Generate FAQs on data catalog usage
  - Work with Chuck on workbook documentation
- Improve data catalog interface especially for real data


- Look into WebDav/GUI for data catalog
- Line-mode client 1.0 release

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- Crawler 1.1 release

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- Data Catalog web interface 1.4 release

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## Astro Server

- Get Astro Server loading tied into L1Proc
- Configure to use with RAID disk
- Test with full year data
- Accessing files in ROOT format
- Accessing extended event files

## (Simple) Skimmer

- Make 1.3 release

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## Download Manager

- Add line mode version of download manager

## WIRED Event Display

- Get working with real data/CEL files

## Xrootd

- Get archiving to tape working


## Infrastructure

## Tomcat Servers

- Finish migrating to using *common* configuration (not all servers are using common/conf/server.xml)
- Migrate to using 64 bit OS and 64 bit java to push the memory limit to 4Gb
- Wrap the tomcat application with *java wrapper* to be able to start/stop a server programmatically
- Figure out why sometimes jar files are lost from classpath (seems to be effecting apps on tomcat07)
- Look into tomcat clustering

## Tomcat Server Monitoring

- Enable start/stop/restart servers from this application
- create a java program to register a MBean listener to receive notifications from the memory MBean when the memory goes over a given threshold
- find a way to assess the status of a web application. So far we can tell if an application is running or not according to tomcat, but even if the application is running it might be producing errors
- run a java application inside or outside this web app to run a simple query against the JDBC data sources to make sure they are running
- Make 1.1 release

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## Ongoing

- Maintainance of confluence/JIRA
  - Upgrade JIRA to latest version (we are far behind)
- Maintainance of Tomcat/CAS/etc
- Oracle performance/tuning
- Switch to new oracle server

## Misc

- Stop using SLACDEV database (**in progress**)
  - Rationalize use of Dev/prod etc, decide if we need other configuration options
    - For ISOC the databases are: Flight, Integration, Test, Nightly
- Make sure all web projects are under cruisecontrol
- Switch to netbeans 6/maven2

## Data Monitoring

### Ops Log

- Make Ops Log use same login system as everything else
- Install latest version from Fermilab
- Enable programmatic entry creation
- Integration between monitoring tools and Ops Log
  - Ability to easily copy plots to ops log and comment on them
  - Ability to find all recent comments on a plot

### Data Quality Monitoring

- Stress test the trending database
- Alarm Handling
  - Ingest detailed information from xml file, like which bins produced an alarm etc.
  - Display alarm information on the plots, like warning/alarm limits or arrows on responsible bins
- Data Trending
  - Given the volume of data a database table only approach might be insufficient. We might have to consider a hybrid solution that involves reading data straight from tuple files (less efficient than reading from a db)
- Front End

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- Back End

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## Data Processing

- Remove duplication between data processing page and other apps
  - One possibility is to *hide* queries in functions
- Add links to log messages (pending refactoring and improvement on logger)

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## Portal

Jira:

- Get portal working, at least for items like data processing page, grb summary etc
  - Generate RSS feeds from LogWatcher, Ops Log, JIRA, Confluence etc to display on portal page

## Cross Trending

Jira

## Report Generation

## Shift Database/Web Display

## Science Products Web Access

## Source Monitoring

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## GCN/GRB Web front end

Jira

- Integrate with Source Monitoring application