

CRL data structure

The CRL application stores data in the AFS file system. Given the root directory, the CRL application will create the needed directories and will store the data under certain conventions.

Goal of this document is to review the CRL data structure and the conventions used by the application.

Directories structure

Under the CRL-data area the following directories are present:

- CRLannotations
- CRLdata
- CRLexportedFiles
- CRLfiles
- CRLforms
- CRLhistograms
- CRLinquiries
- CRLmaillists
- LogBook_admin
- WWWdirectory

We will go through the directories describing the contents.

LogBook_admin

How the CRL application knows about the data structure is written in the administration configuration file that lives in the root directory of the CRL data. The CRL administrator has to specify the location of the CRL admin configuration in the main CRL configuration, that resides in the WEB-INF area of the application.

In the configuration file "LogbookConfigParms.properties" there are reported the directories location for the various piece of the application. Here it is presented the configuration file for the demo application

```
Logbook.file_location.entry_directory = /afs/fnal.gov/files/data/crl/testapp/CRLdata
Logbook.file_location.inquiries_directory = /afs/fnal.gov/files/data/crl/testapp/CRLinquiries
Logbook.file_location.annotate_directory = /afs/fnal.gov/files/data/crl/testapp/CRLannotations
Logbook.file_location.files_directory = /afs/fnal.gov/files/data/crl/testapp/CRLfiles
```

Logbook.file_location.histograms_directory = /afs/fnal.gov/files/data/crl/testapp/CRLhistograms
Logbook.file_location.exported_files_directory =
/afs/fnal.gov/files/data/crl/testapp/CRLexportedFiles
Logbook.file_location.www_directory = /afs/fnal.gov/files/data/crl/testapp/WWWdirectory
Logbook.file_location.forms_directory = /afs/fnal.gov/files/data/crl/testapp/CRLforms

The application itself creates the following directories:

CRLdata
CRLinquiries
CRLannotations
CRLfiles
CRLhistograms
CRLexportedFiles
WWWdirectory
CRLforms
CRLmaillists

CRLdata

The entries are contained in the following directory structure:

CRLdata/Entries/<yyyy>/<mm>month/<dd>day/<hh>hour/topic/Text_<ID>

i.e. :

CRLdata/Entries/2010/06month/03day/12hour/Far_Detector/Log/Text_1092

The files contain XML tags needed at the application to transform the entries in Java bean.

The data content could be extracted from the tag DATA that contains the entries in HTML format, and other tags called properties that describe characteristics that belong to the entry itself (author, time).

These files are constructed to be suited in the CRL Java application.

CRLforms

This directory contains the XML version of the forms.

The XML needs to be validated by external DTD that is present in the same directory (form.dtd)

WWWdirectory

The WWWdirectory contains the html version of the Entries and for the forms. Entries are stored in the common format path for the Entries for the CRLdata

WWWdirectory/Entries/<yyyy>/<mm>month/<dd>day/<hh>hour/topic/Text_<ID>

WWWdirectory/Entries/2010/06month/03day/12hour/Far_Detector/Log/Text_1092

The directory for the Entry does include the HTML with the images, and reference to detailed images.

As mentioned before, the WWWdirectory contains also the HTML version of the forms in the sub-directory called *crlwforms*.

CRLinquiries

All the files are marked with a *winq* extension.

The files contain XML tags needed at the application to transform the entries in JAVA beans.

CRLannotations

In this directory are stored the comments at the entries. The directory structure is the following:

CRLannotations/Entries/<topic>/<thread>/Text_<textID>

i.e :

CRLannotations/Entries/Far_Detector/Log/Text_1092

Note: the default thread is set to "Log".

This directory contains a XML version used by the Java base application to convert the XML content in Java objects, and a HTML version.

CRLmaillists

It contains XML files with the information about the maillist.

The maillist tag is very simple and contains information regarding the name of the email list, the subject, sender, etc.

```
<MAILLIST>  
<TO>pomato@fnal.gov</TO>  
<TO>vittone@fnal.gov</TO>  
<FROM>Logbook</FROM>  
<SUBJECT>Far Detector/DAQ Development-Log $D $T</SUBJECT>  
</MAILLIST>
```

CRLexportedFiles, CRLfiles, CRLhistograms

These directories, if present, are empty for the vast majority of the logbooks. Exceptions are Minos and ILC. ILC has the directories but empty, while Minos in the CRLexportedFiles, CRLfiles contains few very old files (2003)

The following is the data structure for the larger part of the production logbooks:

- CRLannotations
- CRLdata
- CRLinquiries
- CRLmaillists
- WWWdirectory

Summary

The CRL application stores the data in two different location and format: CRLdata uses XML semantic, and WWWdirectory where are stored HTML files. The XML files in the CRLdata area are constructed to suit the CRL application per se. The WWWdirectory stores the entries in HTML format. The easier way to parse and transfer the data to an application with a data base approach is to use as input source the HTML files.