

# Table of Contents

## **About this Manual**

Purpose and Intended Audiences

Availability

Notational Conventions

Your Comments are Welcome!

## **Overview and User's Guide**

### **Chapter 1: Overview**

1.1 About Control Room Logbook (CRL)

1.2 The CRL Application Window

1.2.1 The Look and Feel

1.2.2 The CRL Toolbar

1.2.3 The CRL Desktop

1.3 Logbook Entries

1.3.1 Entry Format

1.3.2 Entry Features

1.4 Logbook Entry Storage

### **Chapter 2: Invoking and Logging Into CRL**

2.1 Invoking the CRL Application

2.1.1 Windows

2.1.2 Linux

2.2 About Logging In

2.3 Username and Password Configuration

2.3.1 About the Entry Signers Feature

2.3.2 Logging In

2.3.3 Logging Out

2.4 Password and PIN Configuration

2.4.1 About PINs

2.4.2 Logging In

2.4.3 Logging Out

2.5 Changing your Password

### **Chapter 3: Making Entries in the Logbook**

3.1 Selecting Category/Topic and Opening a Container

3.2 Selecting Entry Type and Creating Entry

3.3 Logbook Data Entry by Type

- 3.3.1 Text
- 3.3.2 Forms
- 3.3.3 Online Images
- 3.3.4 Output Files from External Applications
- 3.3.5 Freehand Equations, Drawings and Notes
- 3.3.6 Output from a Program or Command
- 3.4 Including Current Date and Time in Entry
- 3.5 Attaching Global Message to All Entries
  - 3.5.1 Turn On a Message
  - 3.5.2 Change or Turn Off a Message

## **Chapter 4: Editing Logbook Entries**

- 4.1 Input Container Menu Options
- 4.2 Selecting Logbook Data
  - 4.2.1 Select/Deselect Single or Multiple Entries
  - 4.2.2 Select Text within an Entry
- 4.3 Modifying Non-archived Logbook Entries
  - 4.3.1 Add to or Change Text in an Entry
  - 4.3.2 Cut, Copy and Paste Text
  - 4.3.3 Undo and Redo Operations
  - 4.3.4 Change Text Font
  - 4.3.5 Delete Entries
- 4.4 Attaching Keywords to a Logbook Entry
  - 4.4.1 Keywords Tailored to Entry's Topic and Data Type
  - 4.4.2 Global Keywords
- 4.5 Recovering or Deleting Checkpointed Entries
- 4.6 Printing Entries
- 4.7 Sending Entries via Email

## **Chapter 5: Archiving Logbook Entries to the CRL Database**

- 5.1 About Archiving Logbook Entries
  - 5.1.1 General Information for All Entry Types
- 5.2 Archiving Entries
- 5.3 Removing Archived Logbook Entries from View
- 5.4 Entries Left Unarchived

## **Chapter 6: Automated Logbook Entry and Archiving**

- 6.1 Overview of the Autoschedule Feature
- 6.2 Setting up an Autoscheduled Job
  - 6.2.1 Open a Container and Select Entry Source
  - 6.2.2 Provide Autoscheduling Parameters
  - 6.2.3 Change Scheduling Parameters or Stop Job

## **Chapter 7: Threading Logbook Entries**

- 7.1 About Threads
  - 7.1.1 The Thread Explorer
  - 7.1.2 Thread Containers
- 7.2 Creating a Thread

- 7.2.1 From the Thread Explorer
- 7.2.2 From an Entry Input Container
- 7.2.3 From a Thread Container
- 7.3 Adding Entries to a Thread
  - 7.3.1 From an Entry Input Container
  - 7.3.2 From a Thread Container
- 7.4 Viewing and Manipulating a Thread
  - 7.4.1 View and Sort Entries in a Thread
  - 7.4.2 Print Entries in a Thread
  - 7.4.3 Send Entries to an Email Recipient
  - 7.4.4 Add Entries from One Thread to Another
  - 7.4.5 Delete Entries from a Thread
- 7.5 Deleting a Thread

## **Chapter 8: Working with Archived Entries**

- 8.1 Accessing Archived Entries from within CRL
- 8.2 Inquiries
  - 8.2.1 Create an Inquiry
  - 8.2.2 Execute an Inquiry and View Results
  - 8.2.3 Halt Execution of an Inquiry
  - 8.2.4 Save an Inquiry
  - 8.2.5 Restore an Inquiry
- 8.3 LogEntry Explorer
- 8.4 Accessing Archived Entries on the Web
  - 8.4.1 Define your own Search Criteria
  - 8.4.2 Run a One-Click Search
- 8.5 Annotating Archived Entries
  - 8.5.1 Annotate Within CRL Application
  - 8.5.2 Annotate from the Web Interface
- 8.6 Downloading/Viewing Attached Files
- 8.7 Creating, Editing and Printing Reports in CRL
  - 8.7.1 Pull Up a Report Container
  - 8.7.2 Report Container Menu Options
  - 8.7.3 Insert Entries into Report Container
  - 8.7.4 Export Binary Files from Report Container
  - 8.7.5 Select Report Entries in Container
  - 8.7.6 Remove Entries from Report Container
  - 8.7.7 Send Entries to an Email Recipient
  - 8.7.8 Print Report
  - 8.7.9 Add Entries to a Thread

## **Chapter 9: Programmer's Guide to the Process Logger**

- 9.1 Introduction
- 9.2 Guidelines for Programmers
  - 9.2.1 Entry Message Format
  - 9.2.2 Return Messages from Plog
  - 9.2.3 Sample Java Program Excerpt

# **CRL Administrator's Guide**

## **Chapter 10: CRL Installation**

- 10.1 Requirements
- 10.2 Software Requirements
  - 10.2.1 Requirements for Installing **CRL**
  - 10.2.2 Requirements for Running CRL
- 10.3 Upgrade Instructions
- 10.4 Installing CRL on Windows
- 10.5 Installing CRL on Linux
  - 10.5.1 Install from Jar File
  - 10.5.2 Install using UPD
- 10.6 Preparing to Use CRL in Fermilab's AFS Products Area
  - 10.6.1 Instructions
  - 10.6.2 Note for Linux
  - 10.6.3 Notes for Windows
  - 10.6.4 Linux and Windows Combined Setup
- 10.7 Uninstalling CRL
  - 10.7.1 Uninstall on Windows
  - 10.7.2 Uninstall on Linux

## **Chapter 11: Configuring and Launching CRL**

- 11.1 Editing the Properties File
  - 11.1.1 The Bare Minimum
  - 11.1.2 Further Edits
- 11.2 Configuring CRL to Use a Preinstalled JVM (Optional)
  - 11.2.1 Files to Copy
  - 11.2.2 Sample CRL Invocation Script
  - 11.2.3 Modify the CRL Invocation Script
- 11.3 Launching the CRL Application
  - 11.3.1 Once you're ready for launch...
  - 11.3.2 Windows (Local and AFS Installations)
  - 11.3.3 Linux (Local UPD Installation)
  - 11.3.4 Linux (Local Tar File Installation)
  - 11.3.5 Linux (AFS Installation)
- 11.4 Configuring Your Desktop
  - 11.4.1 Define Keywords
  - 11.4.2 Define a new Desktop Page (Data Entry or Report)
  - 11.4.3 Define a Menu and/or Submenu on a Desktop Page
  - 11.4.4 Define a ToolBar with ToolButtons for Data Entry Types
- 11.5 Creating Configuration Files for Forms
  - 11.5.1 Create/Modify the XML Form Definition Files
  - 11.5.2 Enable Automatic Electronic Mailing of Form Entries
  - 11.5.3 Include Tables in a Form
  - 11.5.4 Create Forms with Selected Reloadable Fields
- 11.6 Enabling Document View plus Thumbnail for PS and PDF File Entries
- 11.7 Editing the Inquiries Configuration File

- 11.8 Configuring Print Queues
- 11.9 Starting the Process Logger Daemon

## **Chapter 12: Configuring CRL to Use a Remote File System**

- 12.1 The Global Repository
- 12.2 Configuring the Remote File System Service
- 12.3 Configuring Local and Remote Clients
- 12.4 The Pieces of the Picture
  - 12.4.1 RMI Registry
  - 12.4.2 The Process

## **Chapter 13: Managing User Information**

- 13.1 The Administrator Button
- 13.2 Adding Users
- 13.3 Activating/Deactivating Users
- 13.4 Editing Information on Active Users
- 13.5 Exiting the Administrative Area

## **Chapter 14: Configuring Web Access to Logged CRL Entries**

- 14.1 Editing the Properties File
- 14.2 Installing and Configuring Additional Software
- 14.3 Obtaining and Editing the JavaServer Page
  - 14.3.1 Configure Keywords Table
  - 14.3.2 Finding Information on JSP
- 14.4 Configure "One-Click" Searches

## **CRL Administrator's Reference Manual**

### **Chapter 15: CRL's Java Properties**

### **Chapter 16: Introduction to XML and DTD Files**

- 16.1 XML Compared to HTML
- 16.2 Let's Get a Feel For It...
- 16.3 Element Types and Attributes in the DTD File
  - 16.3.1 Element Type Declarations
  - 16.3.2 Attributes and Attribute Lists
  - 16.3.3 Example of Element Type Declaration plus Attribute List

### **Chapter 17: The CRL Desktop Configuration File**

- 17.1 CRL Configuration DTD File Listing
- 17.2 Element Type and Attribute Listing
  - 17.2.1 XML Declaration
  - 17.2.2 LogBookConfig
  - 17.2.3 Keyword
  - 17.2.4 InitialTabs
  - 17.2.5 Page
  - 17.2.6 EntryInputPage
  - 17.2.7 Menu and SubMenu
  - 17.2.8 Topic
  - 17.2.9 ToolBar and ToolButton

### 17.3 The CRL Java Class Libraries

#### 17.3.1 Container (Topic) Classes

#### 17.3.2 Entry type Classes

#### 17.3.3 Desktop Page Classes

## **Chapter 18: Form and Inquiry Configuration Files**

### 18.1 Form Definition Files

#### 18.1.1 XML Elements Allowed in Forms

#### 18.1.2 Sample “Start of Shift” Form

#### 18.1.3 Sample “End of Shift” Form

#### 18.1.4 Sample Form using a Variety of Form Elements

#### 18.1.5 Sample Table Element in a Form

#### 18.1.6 Sample Line for Running a Script or Command

#### 18.1.7 Sample Lines with Field Placement Grouping

#### 18.1.8 Sample Form with Embedded Forms

### 18.2 The Logbook Inquiry Configuration File

#### 18.2.1 DTD File Listing for Inquiries

#### 18.2.2 Default XML File Listing for Inquiries

## **Index**