

**Oracle® Clinical Remote Data Capture Onsite**

Administrator's Guide

Release 4.6

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Oracle Clinical Remote Data Capture Onsite Administrator's Guide, Release 4.6

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# Contents

<b>Preface</b> .....	xi
Audience .....	xi
Documentation Accessibility .....	xi
Related Documents .....	xii
Conventions .....	xiii
<b>1 Getting Started with Administration Tasks</b>	
1.1 About Administrator Privileges for Maintaining RDC Onsite .....	1-2
1.1.1 About Database Roles for RDC Onsite Users .....	1-2
1.1.2 About User Roles with Limited Administrator Privileges .....	1-3
1.2 Starting the RDC Administration Application .....	1-3
1.2.1 RDC Administration Main Window .....	1-4
1.2.2 About Maintain Mode versus Query Mode .....	1-5
1.2.3 About the Searches Option .....	1-5
1.3 Starting the Oracle Clinical Application .....	1-5
1.4 Modifying Files on the Application Server .....	1-6
1.5 Stopping and Restarting the rdc OC4J Instance .....	1-7
<b>2 Securing RDC Onsite</b>	
2.1 About Security Privileges .....	2-2
2.1.1 Minimum Requirement for Privileges .....	2-2
2.1.2 Privileges and Batch-Loaded CRFs .....	2-4
2.1.3 Site Privileges Take Precedence Over Study Privileges .....	2-4
2.2 Assigning Study and Site Security Privileges .....	2-5
2.2.1 Opening the Security Privileges Forms .....	2-5
2.2.2 Configuring Study and Site Security Privileges .....	2-5
2.2.3 Granting Administrator Privileges to Individual Users .....	2-7
2.3 Granting Oracle Clinical Users Access to RDC Onsite .....	2-7
2.4 Managing Security with Data Entry Configuration Settings .....	2-8
2.4.1 Changing the Data Entry Configuration Settings .....	2-9
2.4.2 Authority to Resolve Discrepancies upon Discrepancy Creation .....	2-10
2.4.3 Authority to Update Locked CRFs and Override Repeating Defaults .....	2-10
2.4.4 Modifying Data Entry Configurations at the Database, Study, and User Levels ...	2-10
2.4.4.1 At the Local Database Level .....	2-10
2.4.4.2 At the Study Level or the User Level .....	2-11

2.5	Restricting Actions Against Locked CRFs.....	2-12
2.6	Restricting Access to Data Collection Instruments (DCIs) .....	2-13
2.6.1	Changing the Default Access to DCIs.....	2-13
2.6.2	Defining DCI Access within a Study .....	2-14
2.6.2.1	Opening the Maintain Access to DCIs within Study Form.....	2-15

### 3 Customizing with RDC Configurations

3.1	About the RDC Configurations .....	3-2
3.1.1	Default Configurations .....	3-3
3.1.2	Assignment Parameters .....	3-3
3.1.2.1	Default Value (%) for Assignment Parameters .....	3-3
3.1.2.2	Assigning Configurations .....	3-3
3.1.2.3	Precedence and Parsing of Assignment Parameters .....	3-4
3.2	Managing RDC Configurations .....	3-5
3.2.1	Opening and Using the RDC Configurations Form .....	3-5
3.2.2	Creating a New Configuration .....	3-5
3.2.3	Specifying the Settings for a Configuration.....	3-6
3.2.4	Assigning Configurations to Users .....	3-6
3.2.4.1	Modifying the Existing Assignments for a Configuration .....	3-7
3.2.4.2	Creating New Assignments for an Existing Configuration .....	3-7
3.2.5	Deleting Assignments and Configurations.....	3-8
3.2.6	RDC Configurations in the Oracle Clinical Reference Local Codelists .....	3-9
3.3	Configuration Settings for RDC Onsite .....	3-10
3.3.1	Customizing the Label for the Links Section on the Home Page .....	3-10
3.3.2	Hiding the Preferences Links.....	3-11
3.3.3	Displaying Time Stamps in Local Time.....	3-12
3.3.4	Allowing Group Verifications and Approvals.....	3-12
3.3.5	Using the Oracle Clinical Accessibility Rules .....	3-12
3.3.6	Disabling the Save Complete Prompt.....	3-13
3.3.7	Specifying a Default Highlighting Scheme for the Data Entry Window.....	3-14
3.3.8	Allowing Access to CRFs Entered via Oracle Clinical or RDC Classic .....	3-15
3.3.9	Suppressing the Validation Error Alert.....	3-15

### 4 Configuring Discrepancy Management

4.1	Tools for Configuring Discrepancy Management.....	4-2
4.2	Defining the Reasons for Discrepancies .....	4-2
4.2.1	Defining the Reasons for Manual Discrepancies .....	4-2
4.2.2	Defining the Reasons for Univariate Discrepancies .....	4-4
4.2.3	Defining the Reasons for Multivariate Discrepancies .....	4-5
4.3	Defining the Review Statuses for Discrepancies .....	4-5
4.3.1	Default Entries for the DISCREPANCY REV STATUS CODE Codelist.....	4-5
4.3.2	Rules for the DISCREPANCY REV STATUS CODE Codelist .....	4-6
4.4	Configuring the Access Statuses for Discrepancies .....	4-6
4.4.1	Access Status Values .....	4-7
4.4.2	Colors Used to Indicate Discrepancy Access Status .....	4-7
4.4.3	Default Entries for the DISCREPANCY STATUS <i>role</i> Codelists .....	4-8
4.4.4	Rules for the DISCREPANCY STATUS <i>role</i> Codelist .....	4-9

4.5	Configuring the Actions Allowed against Discrepancies .....	4-10
4.5.1	Default Entries for the DISCREPANCY ACTIONS <i>role</i> Codelists .....	4-10
4.5.2	Rules for the DISCREPANCY ACTIONS <i>role</i> Codelist .....	4-10
4.6	Defining the Resolution Reasons for Discrepancies .....	4-11
4.7	Preventing Update to OTHER Discrepancies.....	4-12

## 5 Customizing Data Entry Behavior

5.1	Configuring the DCI Form Runtime Settings.....	5-2
5.1.1	Defining the DCI Form Runtime Settings at the Database Level .....	5-2
5.1.2	Defining Report Settings at the Study Level.....	5-3
5.1.3	Enabling HTML Data Entry for RDC Onsite.....	5-3
5.1.4	Displaying the Visit-Owning Interval on the Casebooks Page.....	5-4
5.1.5	Allowing Investigator Comments.....	5-4
5.1.6	Adding a Customized <i>Reference</i> Field to the Search Pane .....	5-4
5.1.6.1	Searching and Viewing Enhancements for the Customized Field.....	5-5
5.1.6.2	Labeling and Enabling Your Customized Search Field .....	5-5
5.1.6.3	Writing the Derivation Procedure to Use Your Customized Field .....	5-5
5.1.7	Controlling the Display of Conditional Blocks within a CRF.....	5-7
5.1.8	Suppressing Prompts and Warnings .....	5-7
5.1.8.1	Suppressing the Change Reason Prompt for New Responses.....	5-8
5.1.8.2	Suppressing the Change Reason Prompt for Investigator Comments .....	5-8
5.1.8.3	Suppressing the Warning for Non-migrated CRFs .....	5-8
5.2	Using DCI Book Assignment .....	5-9
5.2.1	Manually Assigning Patients to DCI Books Using Oracle Clinical.....	5-9
5.2.2	Automatically Assigning the DCI Book upon Initial Data Entry .....	5-9
5.2.3	Allowing Patient Book Assignments to Change .....	5-10
5.3	Specifying CRFs for Single Use.....	5-11
5.4	Customizing the Display of a List of Values.....	5-11
5.5	Defining the List of Allowable Change Reasons.....	5-13
5.5.1	Accessing the Codelists to Customize the Change Reason Values .....	5-13
5.5.1.1	Reserved Change Reason Values .....	5-14
5.5.1.2	Identifying the Default Change Reason .....	5-14
5.5.1.3	Identifying Change Reasons NOT for Use in RDC Onsite.....	5-15
5.5.2	Suppressing the Reason for Change Dialog Box .....	5-15
5.6	Setting the Format of Dates .....	5-16
5.6.1	Setting Date Formats at the Database Level .....	5-17
5.6.2	Setting Date Formats for Individual Users .....	5-17

## 6 Customizing RDC Onsite on the Application Server

6.1	Setting Up the Application for HTTPS .....	6-2
6.2	Creating a Launch Page for RDC Onsite .....	6-2
6.2.1	Setting Up A Link to Launch RDC Onsite .....	6-2
6.2.1.1	Sample JavaScript for Creating a Link to RDC Onsite.....	6-3
6.2.1.2	Sample HTML for Creating a Button or Link to RDC Onsite.....	6-3
6.2.2	Customizing the RDC Onsite URL .....	6-3

6.3	Customizing the Reset Password Link .....	6-5
6.3.1	Requirements for Using the RDC Onsite Password Utility .....	6-5
6.3.2	Resetting versus Changing Passwords.....	6-5
6.3.3	Configuring the Reset Password Link.....	6-5
6.4	Customizing the Co-brand Logo .....	6-6
6.5	Customizing the Contact Us Link .....	6-7
6.6	Customizing the Change Password Link.....	6-8
6.6.1	Changing the URL and the Name for the Change Password Link .....	6-8
6.6.2	Enforcing Profile Limits for the Change Password Page.....	6-8
6.7	Customizing the Electronic Signature (Approval) Warning Message.....	6-9
6.7.1	Customizing the Approval Warning Messages for the Data Entry Window .....	6-9
6.7.2	Customizing the Approval Warning Messages for the Application Pages .....	6-10
6.7.3	Other Options for Customizing Approvals.....	6-10
6.8	Setting the User Session Timeout Value .....	6-11
6.8.1	Recommendations for Setting the Session Timeout Value.....	6-11
6.8.2	Changing the Session Timeout Value.....	6-11
6.9	Setting the Maximum Number of Rows Fetched.....	6-12
6.10	Storing Custom Web Pages .....	6-12
6.11	Storing the DCIF Images.....	6-13
6.12	Setting the Keep Alive Timeout.....	6-13

## 7 Working with the RDC Client Package

7.1	Deriving Company-Specific Document Numbers .....	7-2
7.2	Configuring a Timer Period for Subsequent Electronic Signatures .....	7-3
7.3	Configuring the DCI Bookmark Label for the Patient Data Report .....	7-3
7.4	Configuring the DCM Bookmark Label for the Patient Data Report.....	7-4
7.5	Configuring the Visit Bookmark Label for the Patient Data Report .....	7-4

## 8 Configuring News

8.1	About the News Section in RDC Onsite .....	8-2
8.2	Creating User Roles that Can Define News Items Only .....	8-3
8.3	Creating and Modifying News Items .....	8-3
8.3.1	Accessing the Form for Defining News Items.....	8-4
8.3.2	Priority and Sequence of News Items.....	8-6
8.3.3	Substitution Parameters for News Items.....	8-6
8.4	Querying News Definitions.....	8-7

## 9 Customizing Activities

9.1	Displaying the Activities List.....	9-2
9.2	Default Activities for RDC Onsite .....	9-2
9.3	Key Concepts for Activities .....	9-2
9.3.1	User Roles and Activities.....	9-2
9.3.2	Types of Activities .....	9-3
9.3.3	Scope of Activities.....	9-3

9.4	Activities Database Tables .....	9-3
9.4.1	RDC_ACTIVITIES Database Table .....	9-3
9.4.2	RDC_ACTIVITY_TAGS Database Table .....	9-7
9.5	Activity Tags and Functions Included with Oracle Clinical .....	9-8
9.6	Creating and Maintaining Customized Activities .....	9-8
9.6.1	Working with the RDC_ACTIVITIES Table .....	9-8
9.6.1.1	Copying Activities .....	9-9
9.6.1.2	Deleting Activities .....	9-9
9.6.2	Creating an Activity Procedure .....	9-9
9.6.3	Adding Counts to Existing Activities .....	9-11
9.7	Creating an Activity Tag Function .....	9-13

## 10 Configuring Links

10.1	About Custom Links .....	10-2
10.1.1	Links on the Home Page .....	10-2
10.1.2	Links on the Patient Summary Report .....	10-3
10.1.3	A Link for CRF Help .....	10-3
10.2	Using the Maintain Links Form .....	10-4
10.2.1	Ordering the Display of Links .....	10-4
10.2.2	Defining the Link Text .....	10-4
10.2.3	Specifying the URL or Function .....	10-5
10.2.4	Specifying the Type of Link .....	10-5
10.2.5	Specifying the Link Scope .....	10-5
10.2.6	Enabling Patient Summary and CRF Help Links .....	10-6
10.3	Link Parameters .....	10-6
10.3.1	Parameters for Static Links Based on Scope .....	10-7
10.3.2	Parameters for Dynamic Links Based on Scope .....	10-7
10.3.2.1	Sample Function Available .....	10-8
10.3.2.2	Function Specification for Dynamic Links .....	10-8
10.4	Creating Links for the Home Page .....	10-9
10.4.1	Defining a Link for the Home Page .....	10-9
10.4.2	Parameters for Links with a Scope of None .....	10-10
10.4.3	Parameters for Links with a Scope of User .....	10-10
10.4.4	Parameters for Links with a Scope of Study .....	10-11
10.4.5	Parameters for Links with a Scope of Site .....	10-11
10.4.6	Customizing the Label for the Links Section .....	10-12
10.5	Defining Links for the Patient Summary Reports .....	10-12
10.5.1	Parameters for a Patient Link .....	10-12
10.6	Defining a Link for CRF Help .....	10-13
10.6.1	Parameters for a CRF Help Link .....	10-14
10.7	Querying Link Definitions .....	10-14
10.8	About Storing Your Customized Web Pages .....	10-14

<b>11</b>	<b>Customizing Online Help</b>	
11.1	Defining Help for the Fields in a CRF.....	11-2
11.2	Customizing Online Help.....	11-3
11.2.1	Copying the RDC Onsite Help Files .....	11-4
11.2.2	Identifying Individual Topic Files.....	11-4
11.2.3	Modifying the Topic Text.....	11-5
11.2.4	Diverting the Help Call to a Custom Location.....	11-6
11.3	Defining Help for CRFs.....	11-6
<b>12</b>	<b>Configuring Settings for Reports</b>	
12.1	Defining Settings for the Patient Data Report .....	12-2
12.1.1	Defining the Configuration Settings for the Patient Data Report.....	12-3
12.1.1.1	Defining Report Settings at the Database Level.....	12-3
12.1.1.2	Defining Report Settings at the Study Level .....	12-4
12.1.2	About the Patient Data Report Settings.....	12-4
12.2	Customizing Bookmark Labels.....	12-6
12.3	Printing Left Default Prompts for Repeating Response Fields .....	12-6
<b>13</b>	<b>Generating Reports from the Command Line</b>	
13.1	Configuring Desktop PDR for Report Generation.....	13-2
13.1.1	Contents of the desktoppdr Folder .....	13-2
13.1.2	Installing the Java Runtime Environment.....	13-3
13.1.3	Copying the Files in the desktoppdr Folder .....	13-3
13.1.4	Copying and Modifying the xdo.cfg File .....	13-3
13.1.5	Modifying the RunPDR.cmd File .....	13-4
13.1.6	Modifying the RunBlankCasebook.cmd File.....	13-5
13.1.7	Adjusting the Heap Size for the Java Virtual Machine (JVM).....	13-6
13.1.7.1	Adjusting JVM Heap Size Options for the Desktop .....	13-6
13.1.7.2	Adjusting JVM Heap Size Options on the Report Server .....	13-6
13.2	Generating a Patient Data Report from the Command Line .....	13-7
13.2.1	Displaying the Command Syntax .....	13-7
13.2.2	Parameters for the RunPDR Command .....	13-7
13.3	Generating a Blank Casebook Report from the Command Line .....	13-9
13.3.1	Displaying the Syntax for the RunBlankCasebook Command.....	13-9
13.3.2	Parameters for the RunBlankCasebook Command .....	13-9
13.4	File Names for Reports Generated from the Command Line .....	13-10
<b>14</b>	<b>Collecting Debug Data</b>	
14.1	Enabling a SQL Trace for Searches .....	14-2
14.2	Displaying Document Numbers in the RDC Onsite Application.....	14-2
14.3	Displaying Discrepancy IDs in the RDC Onsite Application.....	14-2
14.4	Debugging the Patient Data Report .....	14-3
14.5	Debugging the RDC Onsite Application.....	14-4
14.5.1	About the Error Messages in RDC Onsite.....	14-4
14.5.2	Locating the Log Files .....	14-5
14.5.2.1	Changing the Location of the Data Entry Logs.....	14-5



14.5.3	Setting the Log File Size and Number .....	14-6
14.5.4	Configuring the Level of Detail for Log Files .....	14-7
14.5.5	Enabling the Logging of Debug Information .....	14-7
14.5.6	Reviewing the Log Entries for the RDC Onsite Application Pages .....	14-8
14.5.7	Reviewing the Log Entries for Data Entry .....	14-9
14.5.8	Locating Log Files for a Fatal Failure during Data Entry .....	14-9
14.5.9	Data Capture API (DCAPI) Logs.....	14-10
14.5.9.1	Location of DCAPI Log Files .....	14-10
14.5.9.2	Log Level for DCAPI Log Files.....	14-10
14.5.9.3	Enabling DCAPI Logging.....	14-10
14.5.9.4	Locating DCAPI Log Entries.....	14-10
14.5.10	Data Capture API (DCAPI) Framework Logs .....	14-10
14.5.11	Dump File for a Data Entry Fatal Failure Error .....	14-11
14.5.11.1	Location of the Dump File.....	14-11
14.5.11.2	Enabling Dump File Creation .....	14-12
14.5.11.3	Reading a Dump File .....	14-12
14.5.12	Viewing Additional Log Files of Interest .....	14-13
14.5.13	Comparison of the Log Files in RDC Onsite 4.6 and 4.5.3.....	14-13
14.6	Debugging Performance Issues in the Data Entry Window.....	14-14
14.6.1	Performance Profiling for the Data Entry Client.....	14-14
14.6.2	Performance Profiling for Data Entry Server Code .....	14-15
14.7	Tracking Scalability Data for RDC Onsite .....	14-16
14.7.1	Enabling Tracking of Scalability .....	14-17
14.7.2	Viewing the Scalability Metrics .....	14-17

## **A Database Connections**

A.1	Setting Up the SQL*Net Connections for Existing Databases.....	A-1
A.2	Setting Up Database Connections in the opaadmin Utility .....	A-1
A.3	Creating a New User with Access to the opaconfig Form .....	A-2
A.4	Revoking User Access to the opaconfig Form .....	A-2

## **B Generating HTML DE and PDR Templates for Existing DCI Form Versions**

B.1	Creating User Roles that Can Upgrade DCI Forms Only .....	B-2
B.2	Upgrading Existing DCI Form Versions for HTML DE and New PDRs .....	B-2
B.3	Running the Upgrade Utility in Incremental Mode .....	B-3

## **Glossary**



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# Preface

This *Oracle Clinical Remote Data Capture Onsite Administrator's Guide* describes how to set up, configure, and customize the Remote Data Capture Onsite (RDC Onsite) application. Your administration tasks include defining access privileges, creating custom configurations, customizing data entry behavior and other features, and controlling the content of Patient Data Reports.

## Audience

This document is intended for data managers and system administrators who are responsible for managing, customizing, and maintaining the RDC Onsite application.

You use a variety of tools and applications to complete the system administration tasks for RDC Onsite. This document assumes you have a general understanding of using Oracle Clinical, Microsoft Windows, text editors, and PL\*SQL procedures.

## Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at <http://www.oracle.com/accessibility/>.

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Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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<http://www.fcc.gov/cgb/consumerfacts/trs.html>, and a list of telephone numbers is available at <http://www.fcc.gov/cgb/dro/trsphonebk.html>.

International hearing-impaired customers should use the TRS at +1.605.224.1837. An Oracle Support engineer will respond to technical issues according to the standard service request process.

## **Related Documents**

This section lists the manuals in the Oracle Clinical Remote Data Capture (RDC) documentation set. You can order printed manuals from the Oracle iStore. From the iStore, search by the part number. You can download PDF copies of the manuals from My Oracle Support (formerly MetaLink) by using the MetaLink numbers.

### **Oracle Clinical Remote Data Capture (RDC) Documentation**

The *Oracle RDC* documentation includes:

- *Oracle Clinical Remote Data Capture Onsite User's Guide* (Part B31158, MetaLink 859758.1)
- *Oracle Clinical Remote Data Capture Onsite Administrator's Guide* (Part E11064, MetaLink 859750.1)
- *Oracle Clinical Remote Data Capture Classic Data Entry User's Guide* (Part B13921, MetaLink 859757.1)

### **Oracle Clinical Documentation**

The Oracle Clinical documentation set includes:

- *Oracle Clinical Installation Guide* (Part A83779, MetaLink 859629.1)
- *Oracle Clinical Getting Started* (Part B12308, MetaLink 859630.1)
- *Oracle Clinical Creating a Study* (Part A85200, MetaLink 859631.1)
- *Oracle Clinical Conducting a Study* (Part A85201, MetaLink 859754.1)
- *Oracle Clinical Administrator's Guide* (Part A83791, MetaLink 859756.1)
- *Interfacing from Oracle Clinical* (Part A83793, MetaLink 859755.1)

In addition, Oracle Health Sciences (OHS) publishes PDF-format Technical Reference Manuals (TRMs) containing proprietary information on internal tables and APIs. If you are a licensed customer, contact Oracle Support to obtain a free electronic copy of the *Oracle Clinical Stable Interface TRM* (Part A83796).

### **White Papers**

- *Configuring Oracle Clinical RDC 4.6 for Performance and Scalability* (MetaLink 873743.1)
- *Configuring HTTP Server to Use SSL in Oracle Application Server 10g* (MetaLink 341904.1)

# Conventions

The following text conventions are used in this document:

<b>Convention</b>	<b>Meaning</b>
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.



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# Getting Started with Administration Tasks

System administration for RDC Onsite requires that you perform certain tasks in the RDC Administration application and other tasks in Oracle Clinical. Using these administration applications, you can configure and customize Oracle Clinical Remote Data Capture Onsite 4.6 (RDC Onsite) to suit the purposes of your organization.

This chapter includes the following topics:

- [About Administrator Privileges for Maintaining RDC Onsite](#)
- [Starting the RDC Administration Application](#)
- [Starting the Oracle Clinical Application](#)
- [Modifying Files on the Application Server](#)
- [Stopping and Restarting the rdc OC4J Instance](#)

## 1.1 About Administrator Privileges for Maintaining RDC Onsite

Any user who wants to be able to define, configure, and maintain the features in RDC Onsite must have RDC administrator privileges.

By default, the following user roles have the required administrator privileges for defining and maintaining RDC Onsite:

- RXC\_ADMIN
- RXC\_SUPER
- RXC\_SUPER\_NOGL
- RXC\_DES
- RXC\_DMGR

See the *Oracle Clinical Administrator's Guide* for information on creating user accounts and user roles with RDC administrator privileges.

### 1.1.1 About Database Roles for RDC Onsite Users

You must explicitly grant every RDC Onsite user at least one database role. You can use the predefined database roles listed in [Table 1-1](#), selecting the role that matches the user's job function, or define additional database roles if you need to further fine-tune security privileges.

These database roles are mapped to user roles in the USER\_GROUP\_ROLES installation reference codelist. Those roles allow users to define security privileges and to customize various aspects of the RDC Onsite user interface.

See the *Oracle Clinical Administrator's Guide* for information on granting database roles to user accounts and creating additional database roles.

**Table 1-1 Default Database Roles Defined for RDC Onsite Users**

Database Role	Typical User Profile
RXC_DMGR	Data manager
RXC_SUPER	Data manager
RXC_CRA	Clinical Research Associate (CRA)
RXC_SITE	Site user, study coordinator, or other person at the remote site responsible for entering patient data
RXC_INV	Investigator at the remote site who can approve CRFs



## 1.1.2 About User Roles with Limited Administrator Privileges

Users granted administrator privileges in Oracle Clinical can define, configure, and maintain all the features in RDC Onsite. In addition to those roles, you can identify a different set of user roles with limited administrator privileges.

Specifically, you can:

- Create a user role where the user has the privilege to define news content, but not perform other administrator tasks
- Create a user role where the user has the privilege to upgrade DCI Forms, but not perform other administrator tasks

Note that the process you use to create the user roles that can define news content or upgrade DCI Forms is different from the process for creating the user roles for other administrative privileges.

For more information on defining user roles with these limited administrator privileges, see the following sections:

- [Section 8.2, "Creating User Roles that Can Define News Items Only"](#)
- [Section B.1, "Creating User Roles that Can Upgrade DCI Forms Only"](#)

## 1.2 Starting the RDC Administration Application

To access the Launch page for the Oracle Clinical Remote Data Capture 4.6 Administration, open a Web browser and enter the URL for your RDC Onsite installation. For example:

`http://computer.mycompany.com/opa46/rdcadmin.htm`

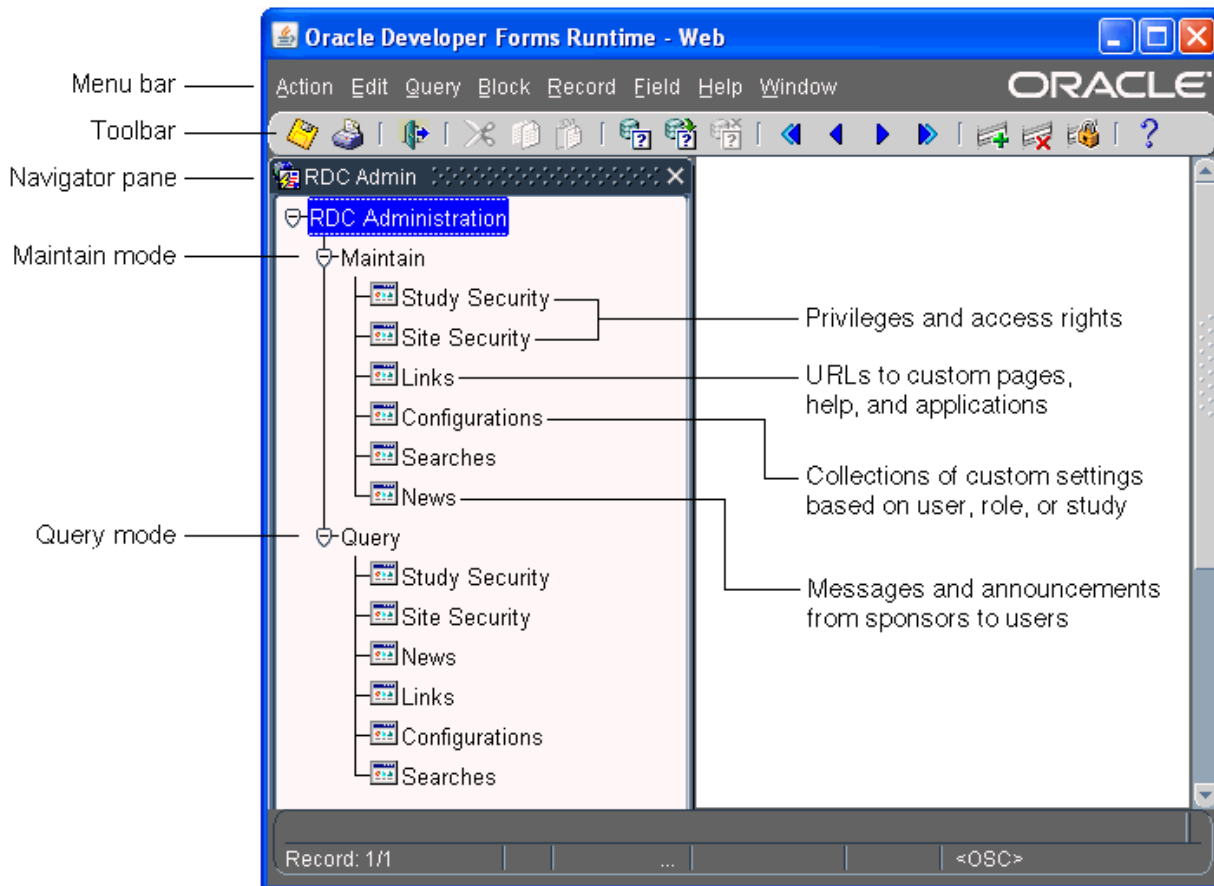
From the Launch page, you can:

- Log in to the RDC Administration application
- Change your login password
- Navigate to documentation, software downloads, the Oracle Health Sciences web site, and the Oracle Clinical User Group web site

## 1.2.1 RDC Administration Main Window

Figure 1–1 illustrates the RDC Administration Main window.

Figure 1–1 RDC Administration Main Window



You can use the menu commands to enter and execute database queries, to insert and remove records, and to go to the next and previous fields, records, and blocks. The icons on the toolbar provide shortcuts to many of these features. For more information on using these standard Oracle Clinical tools, see the *Oracle Clinical Getting Started*.

The Navigator pane provides access to the following options for configuring and customizing the RDC Onsite application:

- The **Study Security** and **Site Security** options let you assign privileges to users on a study or site basis. Privileges give RDC Onsite users the right to access certain data and CRFs, as well as the permission to perform a certain task or an action on the database. See [Chapter 2, "Securing RDC Onsite"](#) for more information.
- The **Links** option lets you configure URLs that RDC Onsite displays in the Links section on the Home page. Any information that can be made available through a URL can be made accessible to RDC Onsite users. See [Chapter 10, "Configuring Links"](#) for more information.
- The **Configurations** option lets you define a collection of settings that customizes certain features in RDC Onsite, and then assign the configuration to one or more users. Configurations give you the power to make features available depending on users, the studies they access, and their user role. See [Chapter 3, "Customizing with RDC Configurations"](#) for more information.

- The **News** option lets you enter messages, such as protocol changes or upcoming deadlines, that the study sponsor wants to communicate to its users. RDC Onsite displays the headlines in the News section on the Home page. See [Chapter 8, "Configuring News"](#) for more information.

## 1.2.2 About Maintain Mode versus Query Mode

In the Navigator pane, the Maintain options let you define and update settings. Query mode provides access to the same options. However, in Query mode, you can access and view — but not add or modify — the settings.

## 1.2.3 About the Searches Option

The Searches option applies only to the Oracle Clinical Remote Data Capture Classic (RDC Classic) product. RDC Onsite does not use the search conditions specified in the Maintain Search form.

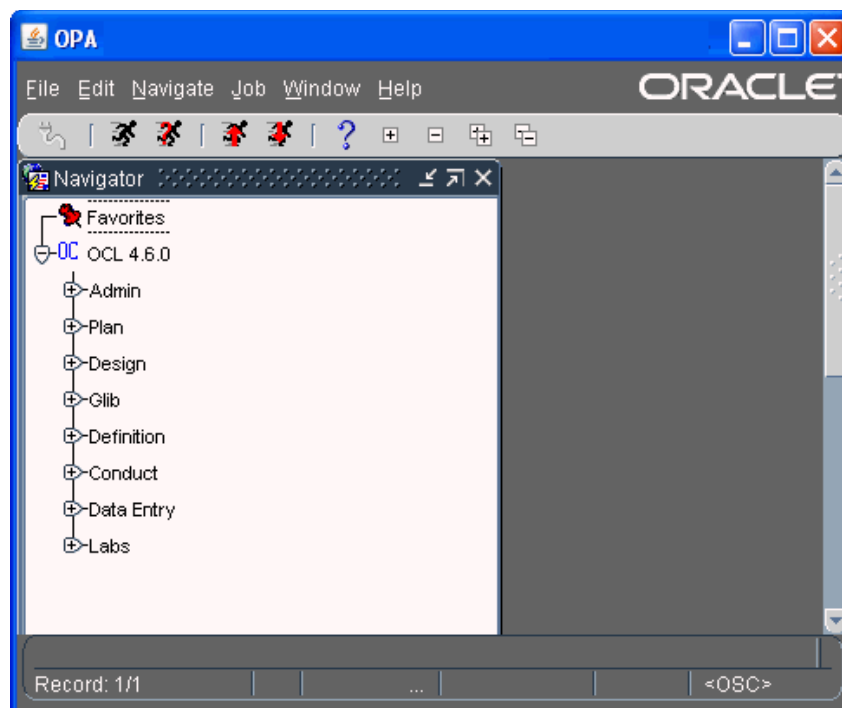
## 1.3 Starting the Oracle Clinical Application

System administration for RDC Onsite requires that you perform certain tasks in the Oracle Clinical application. To access the Launch page for the Oracle Health Sciences Applications 4.6, open a Web browser and enter the URL for your Oracle Clinical installation. For example:

`http://computer.mycompany.com/opa46/launch.htm`

The Launch page is similar to the RDC Administration Launch page. You can log in to Oracle Clinical; change your password; and access product documentation, software downloads, the Oracle Health Sciences web site, and the Oracle Clinical User Group web site. [Figure 1-2](#) shows the Oracle Clinical Main window.

**Figure 1-2** Oracle Clinical Main Window



In Oracle Clinical, you use options in Admin, Definition, Design, and Conduct to define and configure settings for RDC Onsite. Many of the settings apply to Oracle Clinical as well; some settings apply to RDC Onsite only.

- Using reference codelists, you define the reasons, review statuses, access statuses, and allowed actions for discrepancies. See [Chapter 4, "Configuring Discrepancy Management"](#) for more information.
- Using a combination of reference codelists and Oracle Clinical forms, you can customize the behavior of RDC Onsite during data entry. For example, you can allow HTML data entry for RDC Onsite; control the display of conditional blocks, dates, and lists of values; and suppress prompts and warnings. See [Chapter 5, "Customizing Data Entry Behavior"](#) for more information.
- You can control what information, such as bookmarks, audit history, and approval data, to include in a Patient Data Report. See [Chapter 12, "Configuring Settings for Reports"](#) for more information.

## 1.4 Modifying Files on the Application Server

In addition to using the RDC Administration application and the Oracle Clinical application to configure and customize RDC Onsite, you can use several system files to customize settings for RDC Onsite.

Some of the system files that you can modify include:

- In the **RdcLogos.properties** file, you can define a custom URL for the Reset Password link and the Contact Us link in the RDC Onsite application. You can also specify a co-branding logo.
- In the **RdcTexts.properties** file, you can customize the Change Password link and modify the text of approval warning messages.
- In the **web.xml** file, you can set the session timeout value, specify the maximum number of rows (data records) to retrieve, and enable server profiling.

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**Caution:** Be careful when editing the web.xml file. The RDC Onsite application may stop working if the changes you make to the web.xml file cause an XML formatting error. Make sure the XML syntax is preserved when you edit or insert lines.

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To modify the system files, you log in to the RDC Onsite application server and navigate within the following directory:

`ORACLE_ASI0GR2MT_HOME\j2ee\rdc\applications...`

For more information on modifying the system files, see [Chapter 6, "Customizing RDC Onsite on the Application Server"](#) and [Chapter 14, "Collecting Debug Data."](#)

In addition, before modifying a system file, you must stop the rdc OC4J instance. See [Section 1.5, "Stopping and Restarting the rdc OC4J Instance"](#) for more information.

## 1.5 Stopping and Restarting the rdc OC4J Instance

Several instructions in this guide call for stopping and restarting the rdc OC4J instance. The **rdc OC4J** instance handles the communication between RDC Onsite users and the Oracle Application Server.

The Application Server Home page in the Oracle Enterprise Manager Application Server Control provides access to monitoring and administrative features for a single instance of Oracle Application Server.

Before modifying any of the system files on the application server, you must stop the rdc OC4J instance. You then restart the instance after making your changes.

### To stop and then restart the rdc OC4J instance:

1. Open a Web browser window and enter your URL to the Oracle Application Server Forms and Reports Services Welcome page. The general format for the URL to the Welcome page is:

*machine-name.company-name.com*

For example:

`http://10gapp.mycompany.com`

2. Click the **log on to Oracle Enterprise Manager 10g Application Server Control** link to open the Application Server Home page.
  - a. In the User name field, enter **as\_admin**.
  - b. In the Password field, enter the installer-specified password during 10g installation.
3. Select the Middle Tier instance. (The name contains the letters **MT**, for example, AS10r2MT).
4. Scroll down the System Components table.
5. Select the check box for the **rdc** component.

To stop the rdc OC4J instance, click **Stop**. You can now modify one or more of the files that let you customize settings for RDC Onsite. Your changes do not take effect until you restart the rdc OC4J instance.

To restart the rdc OC4J instance after you modify one or more RDC Onsite files, return to the System Components table, select the check box for the rdc component, and click **Restart**.



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## Securing RDC Onsite

Using forms and settings in either the RDC Administration application or the Oracle Clinical application, you can oversee RDC Onsite security, configure certain application components, and maintain session settings for RDC Onsite users.

This chapter includes the following topics:

- [About Security Privileges](#)
- [Assigning Study and Site Security Privileges](#)
- [Granting Oracle Clinical Users Access to RDC Onsite](#)
- [Managing Security with Data Entry Configuration Settings](#)
- [Restricting Actions Against Locked CRFs](#)
- [Restricting Access to Data Collection Instruments \(DCIs\)](#)

## 2.1 About Security Privileges

You can use the RDC Administration application to assign privileges. You can assign one privilege or a set of privileges to a user.

**Privileges** give RDC Onsite users the right to access certain data and CRFs, as well as the permission to perform a certain task or an action on the database. For example, you may give some users the right to browse (view) data, but not update data. Other users may receive the privilege to update, verify, and approve CRFs.

Privileges are independent of user roles. However, you often assign the same set of privileges to all users in a particular role.

You can assign privileges on a study basis or a site basis. For example, you can grant a user BROWSE access to all sites in the study, and then grant the same user UPDATE privileges for one site.

Table 2-1 describes the privileges that you can assign to users.

### 2.1.1 Minimum Requirement for Privileges

All users must be assigned at least one privilege in order to start a RDC Onsite session. If RDC Onsite determines at login that the user is not assigned at least one privilege, the login fails and the session does not start.

The minimum privilege you can assign is the BROWSE privilege. However, all other privileges also include the BROWSE privilege. Therefore, you only need to grant the BROWSE privilege to users who will have no other privilege.

Note that BROWSE does not include BRW\_BATCH.

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**Note:** In addition to granting privileges, you must grant each user a role. If a user is granted multiple roles, for example RXC\_CRA and RXC\_DMGR, the user cannot log in to RDC Onsite.

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**Table 2–1 Functional Privileges for RDC Onsite Users**

<b>Privilege</b>	<b>Access Granted</b>	<b>Applies To...</b>
BROWSE	Provides read-only access to manually-entered data.  The BROWSE privilege does not include the privileges defined by BRW_BATCH.	<ul style="list-style-type: none"> <li>■ RDC Onsite</li> <li>■ RDC Classic</li> <li>■ Oracle Clinical Discrepancy Management form</li> </ul>
BRW_BATCH	Provides read-only access to batch-loaded data.	<ul style="list-style-type: none"> <li>■ RDC Onsite</li> <li>■ RDC Classic</li> <li>■ Oracle Clinical Discrepancy Management form</li> </ul>
UPDATE	Lets the user enter data into a CRF, update manually-entered data, and update discrepancies.  The UPDATE privilege includes the privileges defined by UPD_DISCREP.  However, the UPDATE privilege does not include the privileges defined by UPD_BATCH or BRW_BATCH.	<ul style="list-style-type: none"> <li>■ RDC Onsite</li> <li>■ RDC Classic</li> <li>■ Oracle Clinical Discrepancy Management form</li> </ul>
UPD_BATCH	Lets the user browse and update batch-loaded data.  The UPD_BATCH privilege includes the privileges defined by BRW_BATCH.	<ul style="list-style-type: none"> <li>■ RDC Onsite</li> <li>■ RDC Classic</li> <li>■ Oracle Clinical Discrepancy Management form</li> </ul>
UPD_DISCREP	Lets the user create, update, route, and close discrepancies.	<ul style="list-style-type: none"> <li>■ RDC Onsite</li> <li>■ RDC Classic</li> <li>■ Oracle Clinical Discrepancy Management form</li> </ul>
VERIFY	Lets the user electronically confirm that the source data has been verified.  Users with this privilege have access to the tools for verifying CRFs.	<ul style="list-style-type: none"> <li>■ RDC Onsite</li> <li>■ RDC Classic</li> </ul>
APPROVE	Lets the user electronically sign CRFs.  Users with this privilege have access to the tools for approving CRFs.  <b>Note:</b> You can grant this privilege at the site level only.	<ul style="list-style-type: none"> <li>■ RDC Onsite</li> <li>■ RDC Classic</li> </ul>
UPD_LOCK_OC	Assigns privileged update to the user, and lets the user update locked documents in Oracle Clinical.	<ul style="list-style-type: none"> <li>■ Oracle Clinical only</li> </ul>
LOCK	Lets the user lock an individual CRF or a group of CRFs to prevent updates to the data.  Users with this privilege have access to the menu command for locking CRFs.	<ul style="list-style-type: none"> <li>■ RDC Classic only</li> </ul>
UNLOCK	Lets the user unlock a locked CRF, and specify one or more users who can then access and update the unlocked CRF.  Users with this privilege can assign other users permission to update a single locked CRF. Users with this privilege have access to the menu command for unlocking CRFs.  <b>Note:</b> You can grant this privilege at the site level only.	<ul style="list-style-type: none"> <li>■ RDC Classic only</li> </ul>

## 2.1.2 Privileges and Batch-Loaded CRFs

Batch-loaded CRFs are a distinct type of CRF. For any user who needs to view or update batch-loaded CRFs, you must assign one of the following separate privileges:

- BRW\_BATCH
- UPD\_BATCH

The VERIFY and APPROVE privileges are the same for batch-loaded and manually-entered CRFs. However, a user with VERIFY or APPROVE privileges must also have either the BRW\_BATCH or the UPD\_BATCH privilege to open and view a batch-loaded CRF.

In addition, the UPD\_BATCH privilege only lets you update response data and investigator comments in a batch-loaded CRF. The UPD\_BATCH privilege does not automatically include the UPD\_DISCREP privilege as the UPDATE privilege does. Therefore, to update discrepancies in a batch-loaded CRF, you must also assign the UPD\_DISCREP privilege to the user.

## 2.1.3 Site Privileges Take Precedence Over Study Privileges

For RDC Onsite, you can assign any privilege at either the site level or the study level except for the APPROVE privilege. You can assign the APPROVE privilege at the site level only.

Privileges granted at the site level take precedence over privileges granted at the study to which the site belongs. This hierarchy gives you the flexibility to grant a user privileges that are more extensive at one site and still let that user access data at other sites within the same study.

### ***Example 2–1 Using Site- and Study-Level Privileges to Limit Access***

Suppose a study has Site001 through Site006. If you want to let a user UPDATE data at all sites except Site003, assign the following privileges to that user:

- UPDATE privilege at the study level
- BROWSE privilege for the Site003 site

Because privileges at the site level take precedence over those at the study level, BROWSE is the only privilege that has affect at Site003. This setup effectively limits the user to view-only access to all CRFs associated with patients assigned to Site003.

### ***Example 2–2 Assigning Site- and Study-Level Privileges to Provide Full Access***

Suppose a study has Site001 through Site006. If you assign a user the UPDATE privilege at the study level, the user can update data and discrepancies at all sites in the study. If you then assign the user a site-level APPROVE privilege for Site001 and Site002 only, the user can APPROVE CRFs at those two sites, but cannot UPDATE data at those two sites. The site privilege takes precedence over the study privilege.

To allow the user to update data at all sites in the study, you must assign the user site-level UPDATE, as well as APPROVE privilege, at Site001 and Site002:

- UPDATE at the study-level, and
- UPDATE and APPROVE at Site001 and Site 002

[Table 2–2](#) lists sample sets of privileges typically granted to different roles. Note that certain privileges are granted at the study level, while other privileges are granted at the site level (that is, on a site-by-site basis).

**Table 2–2 Sample Privilege Assignments**

<b>Job</b>	<b>Study Level</b>	<b>Site Level</b>
Investigator	BROWSE	APPROVE
Data entry personnel	—	UPDATE, BRW_BATCH
CRA	BROWSE, BRW_BATCH	UPD_DISCREP, VERIFY
Data manager	BROWSE, BRW_BATCH, UPD_DISCREP	—

## 2.2 Assigning Study and Site Security Privileges

To use the Study Security and Site Security options, you must have one of the following privileges:

- RXC\_ADMIN
- RXC\_SUPER
- RXC\_SUPER\_NOGL

Other users who have study access can use the Query Study Security and the Query Site Security options to view the study and site security forms. These users can view the forms, but cannot update any information.

### 2.2.1 Opening the Security Privileges Forms

You can define and maintain users' study and site privileges either from RDC Administration or from Oracle Clinical.

#### **In RDC Administration:**

- To define study privileges, navigate to **Maintain**, and then select **Study Security**.
- To define site privileges, navigate to **Maintain**, and then select **Site Security**.

#### **In Oracle Clinical:**

- To define study privileges, navigate to **Admin, Users and Roles**, and then select **Study Security**.
- To define site privileges, navigate to **Admin, Users and Roles**, and then select **Site Security**.

### 2.2.2 Configuring Study and Site Security Privileges

Once you open either the Maintain Access to Studies form or the Maintain Access to Sites within a Study form, you can use the standard menu commands, toolbar icons, or shortcut keys to:

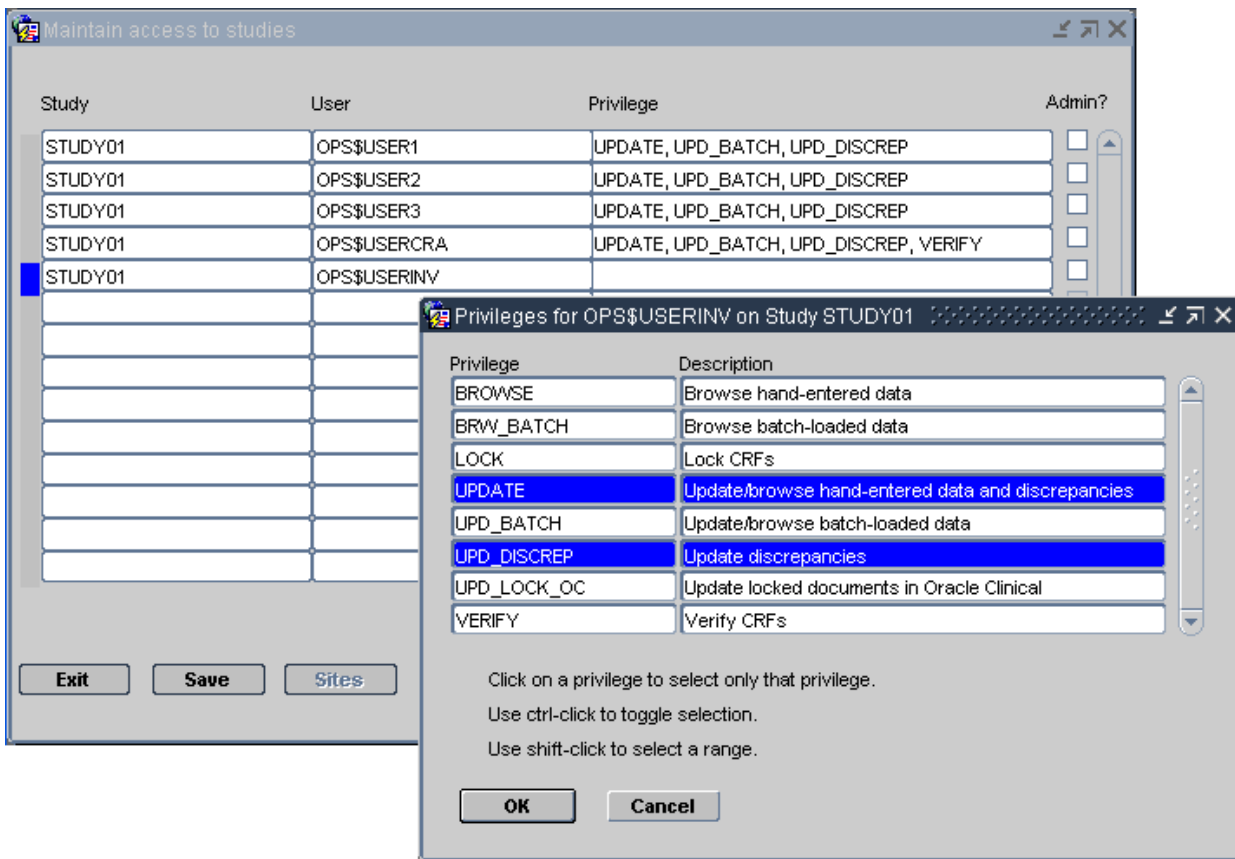
- Query for one or more records. You can use the % sign as a wildcard search character.
- Add a new record or update existing records.
- Delete one or more records.
- Switch to a different study or site.

For the Study field, Site field, and User field, you can type directly into the field. You can also open a list of valid values and select from the list.

**To add or modify the privileges for a user:**

1. Open either RDC Administration or Oracle Clinical.
  - In RDC Administration, navigate to **Maintain**.
  - In Oracle Clinical, navigate to **Admin, Users and Roles**.
2. Open the correct form:
  - To grant privileges to a user for a particular study, select **Study Security**.
  - To grant privileges to a user for a particular site, select **Site Security**.
3. Query for a particular record or query all records and navigate to the record you want to update. Alternatively, press F6 to insert a blank row and add a new record.
4. Click the **Privilege** column for the user whose privileges you want to update. The dialog box for configuring privileges opens. See [Figure 2-1](#).
5. Select the privileges to assign to the user:
  - To select one privilege, click that privilege.
  - To select several privileges, **Ctrl-click** each privilege. Ctrl-click also toggles the selection on and off.
  - To select a range, **Shift-click** the first and last privilege in the range.
6. Click **OK** to save the privileges for the selected user. Add or modify privileges for other users, as appropriate. Save your changes when finished.

**Figure 2-1 Assigning Privileges to a User for a Particular Study**



### 2.2.3 Granting Administrator Privileges to Individual Users

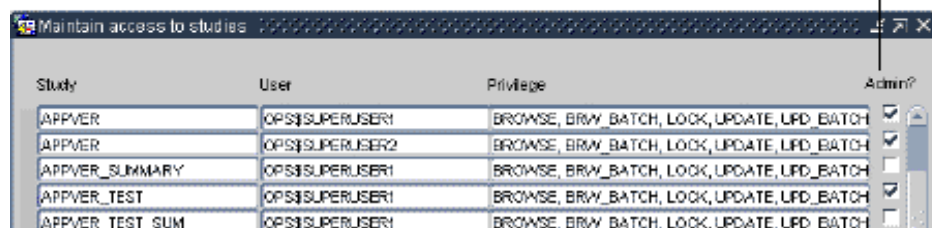
You can grant administrator privileges to individual users for particular studies or sites. For example, you can give users with study design roles (RXC\_DES and RXC\_DMGR) administrator privileges only for the studies they manage.

Note that the administrator privilege alone does not include any access to patient data. You must also grant the user at least the BROWSE privilege.

#### To grant administrator privileges to a user:

1. Open either RDC Administration or Oracle Clinical.
  - In RDC Administration, navigate to **Maintain**.
  - In Oracle Clinical, navigate to **Admin, Users and Roles**.
2. Open the correct form:
  - To grant administrator privileges to a user for a particular study, select **Study Security**. Execute a query for the user or study.
  - To grant administrator privileges to a user for a particular site, select **Site Security**. The system lists the available sites and defined users.
3. Enable the appropriate **Admin?** check box to grant administrator privileges.

Use the Admin? check box to grant administrator privileges to individual users for particular studies or sites.



Study	User	Privilege	Admin?
APPVER	OPS\SUPERUSER1	BROWSE, BRW_BATCH, LOCK, UPDATE, UFD_BATCH	<input checked="" type="checkbox"/>
APPVER	OPS\SUPERUSER2	BROWSE, BRW_BATCH, LOCK, UPDATE, UFD_BATCH	<input checked="" type="checkbox"/>
APPVER_SUMMARY	OPS\SUPERUSER1	BROWSE, BRW_BATCH, LOCK, UPDATE, UFD_BATCH	<input type="checkbox"/>
APPVER_TEST	OPS\SUPERUSER1	BROWSE, BRW_BATCH, LOCK, UPDATE, UFD_BATCH	<input checked="" type="checkbox"/>
APPVER_TEST_SUM	OPS\SUPERUSER1	BROWSE, BRW_BATCH, LOCK, UPDATE, UFD_BATCH	<input type="checkbox"/>

### 2.3 Granting Oracle Clinical Users Access to RDC Onsite

A user who has access to a study in Oracle Clinical does not automatically have access to that study in RDC Onsite unless you use the Study Security form in the RDC Administration application to assign specific privileges to the user.

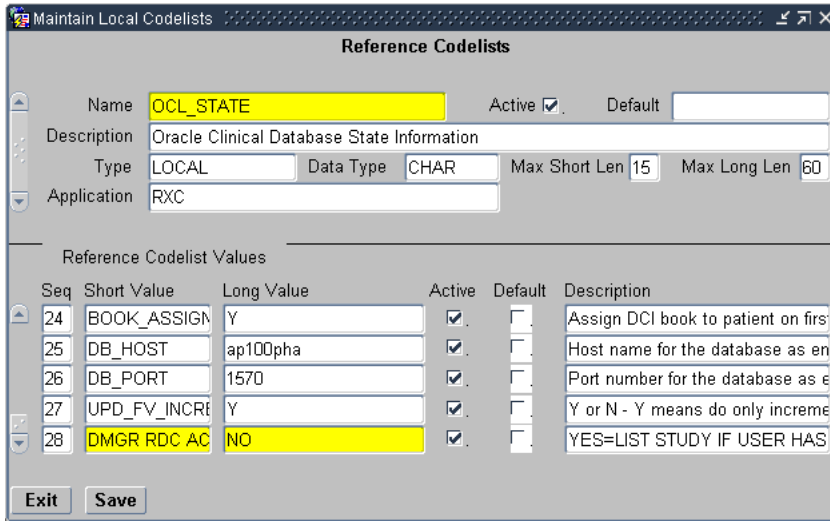
Alternatively, you can use the **DMGR RDC ACCESS** short value in the OCL\_STATE local reference codelist to automatically grant an Oracle Clinical user access to the studies in RDC Onsite.

Users with the Superuser flag selected in the Oracle Accounts form in Oracle Clinical always have access to all studies in both Test and Production modes.

#### To automatically grant an Oracle Clinical user access to RDC Onsite:

1. Define the study or studies that the user can access. See the *Oracle Clinical Administrator's Guide* for more information.
2. Open Oracle Clinical.
3. Navigate to **Admin, Reference Codelists**, and then select **Local Codelists**.

4. Query for the OCL\_STATE local reference codelist:
  - a. Enter **OCL\_STATE** in the Name field.
  - b. Press **F8** to execute the query.
5. Scroll to the **DMGR RDC ACCESS** short value.



6. Set the long value to **YES**.
7. Save your changes.

A user who is granted RDC Onsite study access in this manner has all RDC Onsite privileges defined in [Table 2-1](#) except the APPROVE and VERIFY privileges. (The UPD\_LOCK\_OC privileges, which is an Oracle Clinical privilege only, is also excluded). You can restrict such a user's access to RDC Onsite by limiting privileges at the study or site level.

When set to **YES**, a user with no study privileges defined for RDC Onsite but with study access defined in Oracle Clinical is automatically given RDC Onsite access to the study as well, in both Test and Production modes.

When set to **NO**, a user granted access to a study in Oracle Clinical does not automatically have access to that study in RDC Onsite. You can use the Study Security form in the RDC Administration application to assign specific privileges to the user.

## 2.4 Managing Security with Data Entry Configuration Settings

As shown in [Figure 2-2](#), the Maintain Installation Configuration form has two data entry configuration settings that are relevant to RDC Onsite. These settings let you:

- Control whether a user can resolve discrepancies at the time the discrepancy is raised.
- Enable privileged update for the user. With privileged update enabled, the user can:
  - Update data and discrepancies for locked documents (RDCMs and RDCIs)
  - Override and update protected repeating defaults

You can define the configuration at the local database level. You can then override the configuration settings at the study or user level.

**Note:** Most settings in the Maintain Installation Configuration form do not apply to RDC Onsite. With the exception of the Resolve Discrepancies in Data Entry setting and the Privileged Update setting, all other settings in the form pertain only to Oracle Clinical and RDC PDF data entry.

## 2.4.1 Changing the Data Entry Configuration Settings

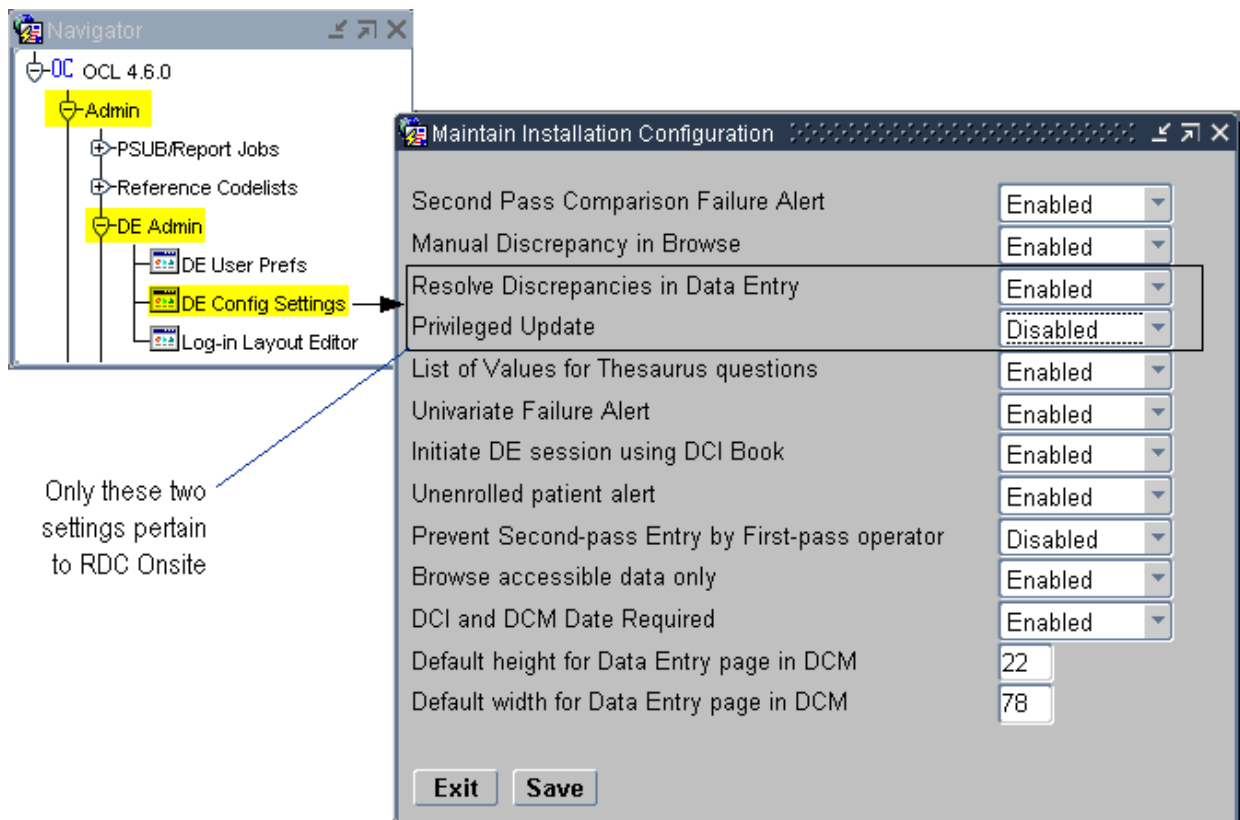
You have two ways to change the data entry configuration settings: by using a form or by using a reference codelist.

You have the option of changing these settings at the local database level either by using the Maintain Installation Configuration form or by using the OCL\_DE\_CONFIG local reference codelist.

**To use the Maintain Installation Configuration form:**

1. Open Oracle Clinical.
2. Navigate to **Admin, DE Admin**, and then select **DE Config Settings**. See [Figure 2-2](#).

**Figure 2-2 Data Entry Configuration Settings for RDC Onsite**



## 2.4.2 Authority to Resolve Discrepancies upon Discrepancy Creation

Use the Resolve Discrepancies in Data Entry setting to define whether the user has permission to resolve discrepancies at the time the discrepancy is created.

- If **Enabled**, the user can resolve discrepancies during data entry and route discrepancies for further action by another user. The default value is **Enabled**.
- If **Disabled**, routing actions are enabled at discrepancy creation time, but resolution actions are not made available.

## 2.4.3 Authority to Update Locked CRFs and Override Repeating Defaults

Use the Privileged Update setting to define whether the user can perform the following actions:

- Update data and discrepancies for locked RDCMs and RDCIs
- Override protected repeating defaults.
- Exceed the maximum number of repeats defined for a repeating question group, even if Enforce Repeats is set. Note that this action pertains only to Oracle Clinical and RDC Classic.

You can enable or disable the Privileged Update setting. The default value is **Disabled**.

See [Section 2.5, "Restricting Actions Against Locked CRFs"](#) for information on how you can prevent users from approving CRFs, verifying CRFs, and updating discrepancies for locked documents.

## 2.4.4 Modifying Data Entry Configurations at the Database, Study, and User Levels

You can set the two Data Entry Configuration settings — Resolve Discrepancies in Data Entry and Privileged Update — at the user level, the study level, or the local database level.

At the user level and the study level, you can select **Not Set** as the value for these settings. If you select **Not Set** at the user level, then RDC Onsite uses the value set at the study level. If neither the study nor the user level is set, then RDC Onsite uses the value set for the local database.

With this hierarchy, it is best to define the configuration at the local database level, and then override at the study or user level.

### 2.4.4.1 At the Local Database Level

To define the data entry configuration setting at the local database level, you can use the Maintain Installation Configuration form or the OCL\_DE\_CONFIG local reference codelist.

**To navigate to the Maintain Installation Configuration form for the local database:**

1. Open Oracle Clinical.
2. Navigate to **Admin, DE Admin**, and then select **DE Config Settings**.
3. Navigate to the setting that you want to modify.
4. Change the value to **Enabled** or **Disabled**.
5. Save your changes.



Alternatively, to make the same changes using the OCL\_DE\_CONFIG codelist:

1. Open Oracle Clinical.
2. Navigate to **Admin, Reference Codelists**, and then select **Local Codelists**.
3. Query for the OCL\_DE\_CONFIG codelist:
  - a. Enter **OCL\_DE\_CONFIG** in the Name field.
  - b. Press **F8** to execute the query.
4. Scroll to and modify the values as follows:
  - To let the user resolve discrepancies at the time the discrepancy is raised, set the **DISC RES IN DE** value to **Y**.
  - To enable privileged update, set the **PRIV UPDATE** value to **Y**.

Reference Codelist Values		
Seq	Short Value	Long Value
1	2ND PASS ALE	Y
2	DISC IN BROW	Y
3	DISC RES IN D	Y
4	PRIV UPDATE	Y
5	THESAURUS L	Y

5. Save your changes.

#### 2.4.4.2 At the Study Level or the User Level

To define the data entry configuration settings at either the study or the user level:

1. Open Oracle Clinical.
2. Navigate to the correct configuration form as follows:
  - To change the settings at the study level, navigate to **Conduct, Security**, and then select **Clinical Study States**.
  - To change the settings at the user level, navigate to **Admin, Users and Roles**, and then select **Oracle Accounts**.
3. Query for the study or user that you want to update.
  - a. Press **F7** to enter a query.
  - b. Specify your search criteria. You can use the % wildcard.
  - c. Press **F8** to display the studies or users that match your criteria.
4. Select the applicable study or user.
5. Open the **Special** menu, and then select **DE Config**.
6. Navigate to the setting that you want to modify.
7. Change the value to **Enabled**, **Disabled**, or **Not Set**.
  - At the study level, you can set any value to **Not Set**. For any setting with a **Not Set** value, RDC Onsite uses the value at the local database level.
  - At the user level, you can set any value to **Not Set**. For any setting with a **Not Set** value, RDC Onsite first looks at the value set at the study level. If the value is **Not Set**, RDC Onsite uses the value at the local database level.
8. Save your changes.

## 2.5 Restricting Actions Against Locked CRFs

By default, RDC Onsite restricts access to locked CRFs.

You can use the RSTRCT LCKD CRF setting in the OCL\_DE\_CONFIG local reference codelist to control a users ability to:

- Update the discrepancies in a locked CRF
- Verify a locked CRF
- Approve a locked CRF

Even if you change the restriction access, users can work with a locked CRF only if they have the proper privileges: UPD\_DISCREP, VERIFY, or APPROVE.

**To change the restriction access to locked CRFs:**

1. Open Oracle Clinical.
2. Navigate to **Admin, Reference Codelists**, and then select **Local Codelists**.
3. Query for the OCL\_DE\_CONFIG codelist:
  - a. Enter **OCL\_DE\_CONFIG** in the Name field.
  - b. Press **F8** to execute the query.
4. Scroll to the **RSTRCT LCKD** CRF short value.

The screenshot shows the 'Maintain Local Codelists' window with the 'Reference Codelists' section. The 'Name' field is set to 'OCL\_DE\_CONFIG'. Below it, a table lists 'Reference Codelist Values' with columns for Seq, Short Value, Long Value, Active, Default, and Description. The row for 'RSTRCT LCKD' is highlighted in yellow.

Seq	Short Value	Long Value	Active	Default	Description
20	COMMCHGREA	Y	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Reason required for comment cha
21	JUSTENTERP1	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Maximum amount of time in minut
22	JUSTENTERP2	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Maximum amount of time in minut
23	SEQUENCEBU	1000000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sequence buffer used to prevent tl
24	RSTRCT LCKD	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	In RDC PDF, prevent approve / ver

5. Set the long value. Do you want to restrict access to locked CRFs?
  - **Y** — Specifies that users cannot update discrepancies for a locked CRF, verify a locked CRF, or approve a locked CRF unless the CRF is specifically unlocked for them.
  - **N** — Specifies that any user with UPD\_DISCREP privileges can work on discrepancies in a locked CRF, any user with VERIFY privileges can verify a locked CRF, and any user with APPROVE privileges can approve a locked CRF.
6. Save your changes.

## 2.6 Restricting Access to Data Collection Instruments (DCIs)

Recall that the DCIs you create in Oracle Clinical are the CRFs that users work with in the RDC Onsite application. You can limit which DCIs a users can access when they are working in RDC Onsite.

To limit DCI access, you can:

- Specify the limits by user role and by study.
- Specify the limits in inclusive or exclusive terms. In other words, you can specify which DCIs to include and which DCIs to exclude.

You first specify the default DCI Access at the installation level. For each user role, you define access as:

- UNRESTRICTED (that is, all DCIs are visible to the user). If you do not define any exceptions to this unlimited access, the level of access depends upon privileges granted to the user at the study and site level.
- RESTRICTED (that is, no DCIs are visible to the user).

Once you define the default DCI access, you can then specify the exceptions at the study level as follows:

- For user roles with UNRESTRICTED access, you can specify one or more DCIs in the study that the users cannot access. In this case, you EXCLUDE certain DCIs from their access.
- For user roles with RESTRICTED access, you can specify one or more DCIs in the study that the users can access. In this case, you INCLUDE certain DCIs to access.

At the study level, you only need to specify the exception conditions.

### 2.6.1 Changing the Default Access to DCIs

RDC Onsite includes a default set of user roles. For each user role, Oracle Clinical sets the default value for DCI access to UNRESTRICTED. In other words, all users can access all DCIs regardless of user role. You use the Maintain DCI Access by Role form to limit the DCIs a user can access.

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**Caution:** If you create a new user role but do not specify a default value for DCI access, users assigned to that role cannot log in to the RDC Onsite application. You must define the default access to DCIs for every user role you plan to assign.

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The default DCI access specification applies to both production mode and test mode.

Before you can change the default DCI access for a user, the user role must exist (must be valid). You cannot change the default DCI access if the user role does not exist.

**To define the DCI access for a user role:**

1. Open Oracle Clinical.
2. Navigate to **Admin** and then select **Users and Roles**.
3. Select **Default DCI Access by Role**.

Alternatively, you can select one of the following menu options depending upon your administrator privileges and current task:

- Select **Test Default DCI Access** if you want to try out DCI access before implementing the feature in a live study.
  - Select **Query Default DCI Access by Role** if you only want to view the current settings but make no changes.
4. Enter a valid user role in the User Role field. You can:
    - Type the name of a valid user role into the field.
    - Click the **List of Values** button, and then select a user role from the list. The list includes all the user roles currently defined in the USER GROUP ROLES installation reference codelist.
  5. Enter the default DCI access for the selected user role. Valid entries are:
    - **UNRESTRICTED** — Allows study/site access to all DCIs unless otherwise restricted in the DCI Access form for the study.
    - **RESTRICTED** — Does not allow access to any DCIs unless you specify exceptions in the DCI Access form for the study.

You can type a valid entry directly into the field. Alternatively, you can click the **List of Values** button, and then select from the list.

6. Continue to enter each user role and the type of DCI access allowed.
7. Save your changes.

For each record in the Maintain Default DCI Access by Role form, Oracle Clinical creates and maintain an audit trail.

Upon initial entry to the form after the upgrade to Release 4.6, Oracle Clinical populates the form with all the user roles defined in the USER GROUP ROLES reference codelist. For each user role, the Default DCI Access field is set to UNRESTRICTED.

After the upgrade to Release 4.6, you must add any new user roles that you create.

## 2.6.2 Defining DCI Access within a Study

After you define the default DCI access for a user role, you can refine the access on a study-by-study basis. You define exceptions to the default DCI access.

For example:

- For user roles with UNRESTRICTED access, you can define one or more specific DCIs that users with the selected role cannot access. When you exclude a DCI, you can also specify whether the user role does not see the DCI at all or whether the user role can open the DCI in browse mode only.
- For user roles with RESTRICTED access, you can define one or more DCIs that users with the selected role can access. When you include a DCI, you can also specify whether the user role can open the DCI with the default study/site privileges or with browse only privileges.

If a user does not have access to a study based on the defined study-level or site-level access, the Study DCI Access does not provide the user with access to the DCI or to the study.

### 2.6.2.1 Opening the Maintain Access to DCIs within Study Form

Table 2–3 describes the various ways that you can open the Maintain Access to DCIs within Study form.

**Table 2–3 Options for Opening the Maintain Access to DCIs within Study Form**

If you want to...	For this mode...	Open Oracle Clinical and navigate to...
Define DCI access for a study	Production	Definition, DCIs, DCI Access
View the DCI access for a study	Production	Definition, DCIs, Qry DCI Access
Define DCI access for a study	Test	Definition, Test a study, DCI Access

#### To define the DCI access for a study:

1. Open Oracle Clinical.
2. Navigate to **Definition, DCIs**, and then select **DCI Access**.
3. Enter the name of the study for which you want to define DCI access. Oracle Clinical opens the Maintain Access to DCIs within Study form.
4. Enter a valid user role in the User Role field. You can:
  - Type the name of a valid user role into the field.
  - Click the **List of Values** button, and then select a user role from the list. The list includes all the user roles currently defined in the USER GROUP ROLES installation reference codelist. Note that the list also displays the default access.
5. Enter the DCI List Type for the selected user role. Valid entries are:
  - **INCLUSION** — Indicates that the user role will be able to access only the DCIs listed in the DCI Name column. The user role has no access to unlisted DCIs.
  - **EXCLUSION** — Indicates that the user role cannot access the DCIs listed in the DCI Name column. All other DCIs are accessed according to the user's study/site privileges.

You can type a valid entry directly into the field. Alternatively, you can click the **List of Values** button, and then select from the list.

6. Click the **DCI Name** field and then enter the name of the DCI that you are including or excluding.

Alternatively, you can leave the DCI Name column empty. An empty DCI list is interpreted differently, depending on whether you are defining an INCLUSION or EXCLUSION list.

- If the DCI List Type is set to INCLUSION *and* the DCI Name column is empty, then the user has access to no DCIs for this study. Use this approach when the default DCI access for the user role is UNRESTRICTED, but for a specific study the user role has access to no DCIs.
- If the DCI List Type is set to EXCLUSION *and* the DCI Name column is empty, then the user has access to all DCIs for this study. Use this approach when the default DCI access for the user role is RESTRICTED, but for a specific study the user role has access to all DCIs.

Note that for individual users, you usually define the same access with study security.

7. Click the **Access** field and then enter the type of access to allow for this DCI. Your options vary depending on whether you are including or excluding access to the DCI.

If the DCI List Type is set to INCLUSION, you can select:

- **Default study/site privileges** — Indicates that the DCI is accessed according to the user's study/site privileges.
- **Browse** — Indicates that the user role can open and view the DCI only in browse mode.

If the DCI List Type is set to EXCLUSION, you can select:

- **None** — Indicates that the user role cannot access the DCI.
  - **Browse** — Indicates that the user role can open and view the DCI only in browse mode.
8. Continue to define the DCIs that this user role can access (include and exclude). Save your changes when you are finished.

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## Customizing with RDC Configurations

A **configuration** is a collection of settings that customizes certain features in the RDC Onsite application. For example, the configuration settings let you hide the group verify option, customize the Links label, and set the default highlighting scheme for the Data Entry window.

Using the RDC Administration application, you create a configuration, define its settings, and then assign the configuration to one or more users. When a user logs in to the application, RDC Onsite checks the assignments and loads the correct configuration for that user.

Configurations give you the power to make features available depending on users, the studies they access, and their user role.

This chapter includes the following topics:

- [About the RDC Configurations](#)
- [Managing RDC Configurations](#)
- [Configuration Settings for RDC Onsite](#)

### 3.1 About the RDC Configurations

Using the RDC Configuration form in the RDC Administration application, you can create one or more configurations. Figure 3-1 shows the RDC Configurations form and summarizes the key steps to creating and assigning configurations.

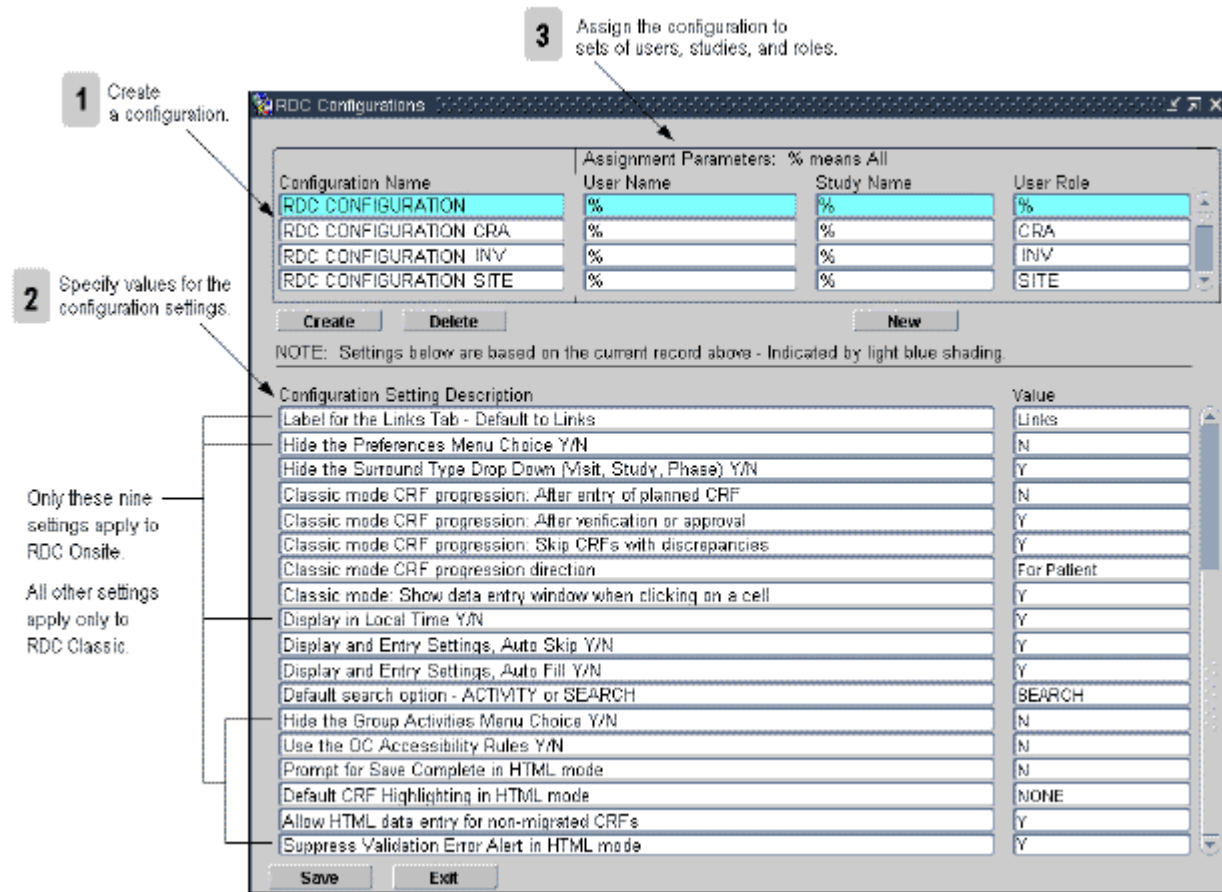
The settings in a configuration let you:

- Specify whether to show or hide the options for changing preferences, for performing group verifications, and for performing group approvals
- Specify whether to show or hide the Save Complete prompt and the Validation Error alert
- Customize the label for the Links section on the home page, the display of time stamps, and the default highlighting scheme for the Data entry window
- Configure how RDC Onsite uses Oracle Clinical rules and entered CRFs

After you create a configuration and define its settings, you use the assignment parameters to assign the configuration to one user, several users, or all users. You assign a configuration based on a combination of user name, study name, and user role.

When a user logs in to the application, RDC Onsite checks the assignments and loads the correct configuration for that user.

Figure 3-1 The RDC Configurations Form





### 3.1.1 Default Configurations

Table 3–1 lists the default configurations available after you install RDC Onsite.

**Table 3–1 Default Configurations for RDC Onsite**

Configuration Name	Description
RDC CONFIGURATION	Default settings for users, if no other configuration is appropriate.
RDC CONFIGURATION CRA	Default settings for the Clinical Research Associate (CRA) role.
RDC CONFIGURATION INV	Default settings for the investigator role.
RDC CONFIGURATION SITE	Default settings for the site user role.

### 3.1.2 Assignment Parameters

When a user logs in to the application, RDC Onsite uses the three assignment parameters to apply the correct configuration:

- User Name
- Study Name
- User Role

The screenshot shows a window titled "RDC Configurations" with a table of configurations and assignment parameters. The table has four columns: Configuration Name, User Name, Study Name, and User Role. The first column contains three entries: "RDC CONFIGURATION SAMPLE", "RDC CONFIGURATION SAMPLE", and "RDC CONFIGURATION SAMPLE". The second column contains "OPS\$JDOE", "OPS\$JSMITH", and "%". The third column contains "%", "%", and "%". The fourth column contains "%", "%", and "DM". Below the table are three buttons: "Create", "Delete", and "New".

Configuration Name	User Name	Study Name	User Role
RDC CONFIGURATION SAMPLE	OPS\$JDOE	%	%
RDC CONFIGURATION SAMPLE	OPS\$JSMITH	%	%
RDC CONFIGURATION SAMPLE	%	%	DM

Click **New** to create a new assignment for an existing configuration.

#### 3.1.2.1 Default Value (%) for Assignment Parameters

The percent sign (%) is a wildcard character meaning *include all*. For example, % in the User Name field includes all user names.

The default value for each assignment parameter is the percent sign (%).

#### 3.1.2.2 Assigning Configurations

After you create a new configuration and define its settings, you *assign* the configuration to one user, several users, or all users. You can make more than one assignment to a configuration. The configuration uses the same name and the same settings, but the assignment parameters are different for each instance of the configuration.

For example, you can have many instances of a configuration named RDC CONFIGURATION CRA, as long as at least one assignment parameter for each instance is different. See Table 3–2.

**Table 3–2 Unique Assignments to the Same Configuration**

Configuration Name	User Name	Study Name	User Role
RDC CONFIGURATION CRA	%	%	CRA
RDC CONFIGURATION CRA	%	STUDY03	%
RDC CONFIGURATION CRA	%	STUDY11	%
RDC CONFIGURATION CRA	OPS\$JSMITH	%	%
RDC CONFIGURATION CRA	OPS\$JDOE	%	%

Based on the assignments defined in [Table 3–2](#), RDC Onsite assigns the RDC CONFIGURATION CRA under the following circumstances:

- To all users assigned the CRA role, regardless of the study they access
- To all users who access STUDY03 or STUDY11, regardless of their assigned role
- To users JSMITH and JDOE, regardless of the study accessed or their assigned role

### 3.1.2.3 Precedence and Parsing of Assignment Parameters

When a user starts a session, RDC Onsite uses the three assignment parameters to apply the correct configuration. RDC Onsite parses the assignment parameters for all configurations in the following order:

- First by user name
- Then by study name
- Finally by user role

In other words, study takes precedence over role, and user takes precedence over study and role. As soon as it matches one of the parameters to the user, RDC Onsite assigns the corresponding configuration to the user.

For example, suppose you set up the configurations listed in [Table 3–3](#).

**Table 3–3 Example of Precedence and Parsing of Assignment Parameters**

Configuration Name	User Name	Study Name	User Role
RDC CONFIGURATION STUDY03	%	STUDY03	%
RDC CONFIGURATION JDOE	JDOE	%	%

Note that the first configuration, RDC CONFIGURATION STUDY03, is set for all users of any role who access Study03. The second configuration, RDC CONFIGURATION JDOE, is set for the user, JDOE.

When JDOE accesses Study03, the RDC CONFIGURATION JDOE configuration takes precedence because it corresponds at the *user name* level, and RDC Onsite loads that configuration. If another user starts a session and accesses Study03, RDC Onsite loads RDC CONFIGURATION STUDY03.

In a similar manner, the default configurations that are installed with RDC Onsite (see [Table 3–1](#)) are invoked based on the role associated with each user:

- If the user is assigned the CRA, INV, or SITE user role, RDC Onsite uses the associated configuration.
- If the user is not associated with one of these roles, RDC Onsite uses the RDC CONFIGURATION, which is the default configuration.

## 3.2 Managing RDC Configurations

To manage and customize configurations for the RDC Onsite application, you need to know how to:

- Open and use the RDC Configurations form
- Create a new configuration
- Assign configurations to users
- Delete assignments and configurations

### 3.2.1 Opening and Using the RDC Configurations Form

The RDC Configurations form (see [Figure 3–1](#)) lists the current configurations, along with the settings and assignments defined for the each configuration.

**To open the RDC Configurations form:**

1. Open the RDC Administration application.
2. Select **Maintain**, and then select **Configurations**.

**Tips for working with the RDC Configurations form:**

- You can enter and execute queries to view a subset of the configurations, users, studies, or roles. Press **F7** to enter a query; press **F8** to execute the query. You can use the wildcard character (%) when entering queries.
- You can use the menu, the toolbar icons, and the keyboard to access commands. Open the **Help** menu and then select **Key Definitions** to view a description of the available keyboard commands.
- Once you position the cursor in an input field, you can press **F9** to display the list of valid values for that field. Alternatively, you can use the menu command, the toolbar icon, or the **List of Values** button to display the valid values for a field.

### 3.2.2 Creating a New Configuration

Recall that a configuration is a collection of settings that control which features of the RDC Onsite application a user can view or access. The settings customize the RDC Onsite features and functionality available to the users who are assigned to the configuration.

When you create a new RDC Onsite configuration, you specify a unique name for the configuration. In addition, you specify an existing configuration on which to base your new configuration.

Your new configuration:

- Inherits the *configuration settings* from the base configuration you select. You can change the settings for your new configuration at any time without affecting the settings of the selected base configuration.
- Is automatically assigned to all users, all studies, and all roles. (That is, the assignment parameters are set to the percent sign (%) wildcard, which is the default value and means **ALL**.) You can change the default assignment. You can also create a variety of new assignments for your configuration.

**To create a new configuration:**

1. Open the RDC Administration application.
2. Select **Maintain**, and then select **Configurations**.
3. Click **Create**.
4. Complete the Create New Configuration dialog box as follows:
  - a. Enter a unique text string for the name of your configuration.
  - b. Click the **Based on** field and then select an existing configuration from the list to use as the base for your new configuration.

You can leave the field blank or select DEFAULT to base your new configuration on the default configuration named RDC CONFIGURATION.
5. Click **OK**.
6. Click **Yes** to create the new configuration. The system inserts your new configuration into the Configuration Name list.

Once you create a new configuration, you need to:

- Specify the settings for the configuration. See [Section 3.2.3, "Specifying the Settings for a Configuration"](#) for details.
- Modify the default assignment parameters to *assign* the configuration to one, some, or all users. See [Section 3.2.4, "Assigning Configurations to Users"](#) for details.

### 3.2.3 Specifying the Settings for a Configuration

When you change the settings of a configuration, the change affects all users assigned to that configuration.

**To change the settings in a configuration:**

1. Open the RDC Administration application.
2. Select **Maintain**, and then select **Configurations**.
3. Select the configuration whose settings you want to change. Enter and execute a query, if necessary, to search for the configuration.
4. Scroll through the Configuration Settings list and modify the values relevant to RDC Onsite. You can press **F9** to view a list of valid values for the selected field.

For a description of each setting and its valid values, see [Section 3.3, "Configuration Settings for RDC Onsite."](#)

5. Save your changes.

### 3.2.4 Assigning Configurations to Users

After you create a new configuration and define its settings, you *assign* the configuration to one user, several users, or all users. When a user logs in to the application, RDC Onsite checks the assignments and loads the configuration assigned to that user.

You use the User Name, Study Name, and User Role fields to define and modify the assignments for a configuration. You can:

- Modify the existing assignments for a configuration.
- Create new assignments for a configuration. Creating new assignments lets you assign the same configuration to different sets of users.

### 3.2.4.1 Modifying the Existing Assignments for a Configuration

By default, the system automatically assigns a newly-created configuration to all users, all studies, and all roles. Note that the User Name, Study Name, and User Role fields are set to the percent sign (%) wildcard, which is the default value and means **ALL**.

After you create a new configuration, you should modify the default assignments.

Configuration Name	Assignment Parameters: % means All		
	User Name	Study Name	User Role
RDC CONFIGURATION SAMPLE	%	%	%

**To modify the existing assignments for a configuration:**

1. Open the RDC Administration application.
2. Select **Maintain**, and then select **Configurations**.
3. Place the cursor on the row of the configuration you want to modify. Enter and execute a query, if necessary, to search for a subset of configurations.
4. Select the Assignment Parameters fields to modify.
5. Click the **List of Values** button or press **F9** to view a list of valid values for the selected field. Use the Find field, if necessary, to search for a subset of the values.
6. Select an appropriate value from the list.
7. Click **OK** to insert the value into the parameter field.
8. Save your changes.

### 3.2.4.2 Creating New Assignments for an Existing Configuration

Recall that you can make more than one assignment to a configuration. The configuration uses the same name and the same settings, but the assignment parameters are different for each instance of the configuration.

For example, suppose you create the RDC CONFIGURATION SAMPLE and define the settings for that configuration. You now want to assign that configuration of settings to OPS\$JDOE, OPS\$JSMITH, and all data managers. You click the **New** button to create a new set of assignment parameters.

For each *new assignment* that you create, the system inserts another instance (row) of the original configuration into the Configuration Name list and sets all the assignment parameters to the default value (that is, %). You can then change the assignment parameters for that instance.

The screenshot shows a window titled "RDC Configurations". It contains a table with the following data:

Configuration Name	User Name	Study Name	User Role
RDC CONFIGURATION SAMPLE	OPS\$JDOE	%	%
RDC CONFIGURATION SAMPLE	OPS\$JSMITH	%	%
RDC CONFIGURATION SAMPLE	%	%	DM

Below the table are three buttons: "Create", "Delete", and "New". A callout line points from the "New" button to the text below.

Click **New** to create a new assignment for an existing configuration.

If a configuration has multiple assignments, the configuration is listed multiple times on the RDC Configurations form. Note, however, that as you move from row to row of the same RDC configuration, the values for the configuration settings are the same. The settings apply to the configuration. Changes you make to the settings apply to all users assigned to the configuration.

---

**Note:** Before you can specify new assignments for an existing configuration, at least one of the assignment parameters associated with the existing configuration must be set to a non-default value (that is, cannot be set to the % sign).

---

**To specify new assignment parameters for an existing configuration:**

1. Open the RDC Administration application.
2. Select **Maintain**, and then select **Configurations**.
3. Click **New** to open the New Assignment Parameters dialog box.
4. Select an existing configuration for which you want to create new assignment parameters. Your new assignment parameters are in addition to any sets of parameters already defined for the configuration.
5. Click **OK**.
6. Click **Yes**. Note that the system inserts another instance of the original configuration into the Configuration Name list and sets all the assignment parameters to the default values (that is, %).
7. Modify the assignment parameters.
8. Save your changes.

### 3.2.5 Deleting Assignments and Configurations

When you delete a configuration, you delete one instance of the configuration and its assignments. If you made multiple assignments to the same configuration, you delete each one individually.

You cannot delete the default configuration, RDC CONFIGURATION.

**To delete one instance of a configuration and its assignments:**

1. Open the RDC Administration application.
2. Select **Maintain**, and then select **Configurations**.
3. Place the cursor in the row you want to delete.
4. Click **Delete**.
5. Click **Yes** to confirm the delete and automatically save your changes.

**3.2.6 RDC Configurations in the Oracle Clinical Reference Local Codelists**

When you create a new RDC configuration, the system also creates a new local reference codelist in Oracle Clinical. The local codelist has the following name:

RDC CONFIGURATION *identifier*

where *identifier* is the unique text string you entered in the Create New Configuration dialog box.

The local codelist has the same configuration settings as the RDC Configurations form. You can update the settings in either location.

The screenshot shows the 'Maintain Local Codelists' window with the following configuration details:

- Name:** RDC CONFIGURATION
- Active:**
- Description:** Default configuration module for users entering RDC
- Type:** LOCAL
- Data Type:** CHAR
- Max Short Len:** 15
- Max Long Len:** 60
- Application:** RXC

Below the configuration fields is a table titled 'Reference Codelist Values' with the following data:

Seq	Short Value	Long Value	Active	Default	Description
25	OC ACC RULES	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Use the OC Accessibility Rules Y
26	PRMPT SV CM	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Prompt for Save Complete in HTML
28	HTML DFLT DS	NONE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Default CRF Highlighting in HTML
29	NONMGRTD DE	Y	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Allow HTML data entry for non-mig
30	SPPRSS VALA	Y	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Suppress Validation Error Alert in

At the bottom of the window are 'Exit' and 'Save' buttons.

### 3.3 Configuration Settings for RDC Onsite

The RDC Configurations form has many settings. Some settings pertain only to the RDC Onsite application, some pertain only to the RDC Classic application, and some pertain to both applications.

This section describes only the settings applicable to RDC Onsite. See [Figure 3–2](#). Values for any other configuration settings have no effect on RDC Onsite users, although those settings affect RDC Classic users.

**Figure 3–2 Configuration Settings Applicable to RDC Onsite**

Configuration Setting Description	Value
Label for the Links Tab - Default to Links	Links
Hide the Preferences Menu Choice Y/N	N
⋮	
Display in Local Time Y/N	Y
⋮	
Hide the Group Activities Menu Choice Y/N	N
Use the OC Accessibility Rules Y/N	N
Prompt for Save Complete in HTML mode	N
Default CRF Highlighting in HTML mode	NONE
Allow HTML data entry for non-migrated CRFs	Y
Suppress Validation Error Alert in HTML mode	Y

#### 3.3.1 Customizing the Label for the Links Section on the Home Page

The **Label for the Links Tab** configuration setting lets you customize the title of the Links section on the Home page. For example, you may want to change the title to *More Study Information* or *Helpful Web Sites*.

You can change the title of the Links section on the Home page.

Links
<a href="#">NCI caBIG</a>
<a href="#">Study Protocol</a>
<a href="#">Oracle Discoverer</a>
<a href="#">AE/Con Med Terminology Browser</a>

You can enter any combination of alphabetic, numeric, and special characters for the title. If you do not specify a value, RDC Onsite uses **Links**.

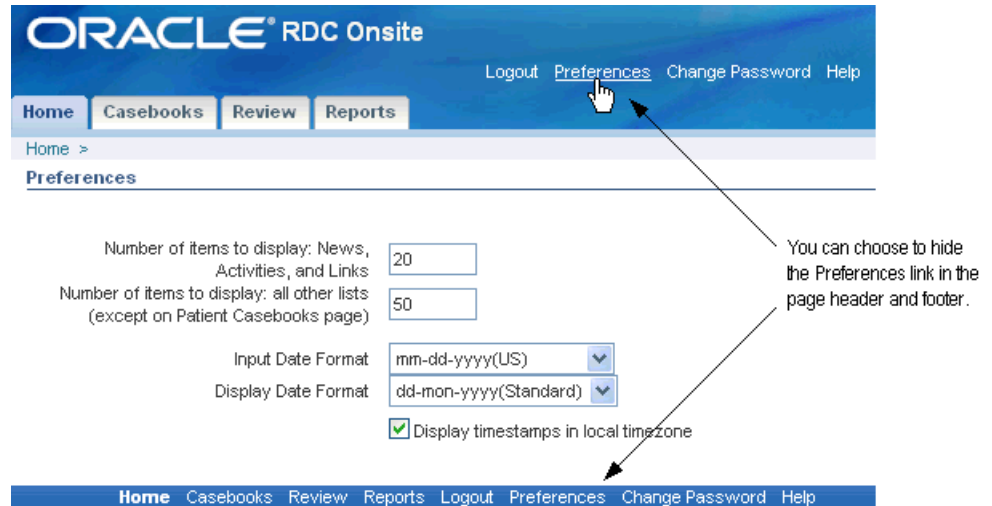
In addition, you can configure and customize the links that display in the Links section by using the Maintain Links form in the RDC Administration application. See [Chapter 10, "Configuring Links"](#) for more information.



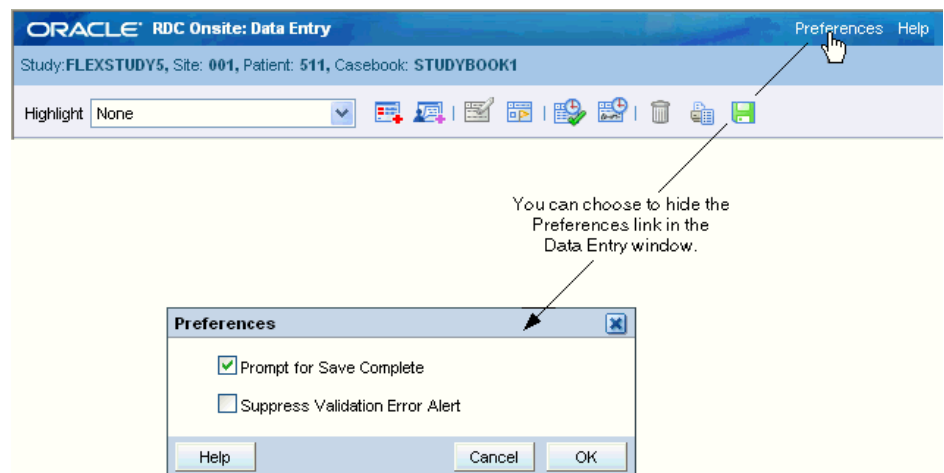
### 3.3.2 Hiding the Preferences Links

The **Hide the Preferences Menu** configuration setting determines whether RDC Onsite displays the Preferences links in the page header and footer, and in the Data Entry window.

- **Preferences link in the page header and footer.** If the link is available, the user can customize the number of items to display in lists, the format of dates, and the time zone to use when displaying time stamps.



- **Preferences link in the Data Entry window.** If the link is available, the user can customize whether to show or hide the Save Complete prompt and the Validation Error Alert prompt.



If you set the **Hide the Preferences Menu** configuration setting to **N**, the Preferences links are available. Note that when the links are available, users can change the value you defined for the following configuration settings:

- **Display in Local Time**
- **Prompt for Save Complete in HTML Mode**
- **Suppress Validation Error Alert in HTML Mode**

Preferences remain in effect for the current session or until the user switches to another study. The next time the user logs in, RDC Onsite loads the assigned configuration and

your defined settings. If you do not want the user to be able to change the preferences, set the **Hide the Preferences Menu** configuration setting to **Y**.

### 3.3.3 Displaying Time Stamps in Local Time

The **Display in Local Time** configuration setting affects only the *display* of time stamps for events such as when the CRF was last modified, verified, approved, or locked. If you set this value to **Y**, users see time stamps adjusted to their local time zone.

Note that this setting:

- Does not affect the format RDC Onsite uses to *record* time stamps in the database. RDC Onsite always stores time stamps according to the time zone of the database server.
- Does not affect the format of the time stamp entered as part of CRF data entry.
- Does not affect the format of the Last Refresh time displayed in the session information.

If the Preferences link is available in RDC Onsite, a user can open the Preferences page and then select the **Display timestamps in local timezone** check box to change the setting for the current session. To prevent users from setting preferences, you can hide the Preferences link. See [Section 3.3.2, "Hiding the Preferences Links"](#) for information.

### 3.3.4 Allowing Group Verifications and Approvals

In RDC Onsite, the Casebooks page and the Review CRFs page can include several options that let the user:

- Verify a group of CRFs
- Approve a group of CRFs

The **Hide the Group Activities Menu** configuration setting determines whether RDC Onsite hides or shows the group verification and approval options.

- If you set this value to **Y**, RDC Onsite hides the group verification and approval options.
- If you set this value to **N**, RDC Onsite displays the group verification and approval options.

Note that this setting only controls the users ability to verify or approve *a group of CRFs* (that is, the group verification and approval options). Users with the appropriate VERIFY and APPROVE privileges are still able to verify and approve an individual CRF from the Data Entry window.

### 3.3.5 Using the Oracle Clinical Accessibility Rules

When a CRF becomes *accessible*, Oracle Clinical runs validation and derivation procedures against that CRF during batch validation or in RDC Onsite, during site validation, during patient validation, or when you save the CRF.

Ordinarily, RDC Onsite marks a CRF as accessible whenever you perform a Save Complete on the CRF.

However, if you are running a paper study or a hybrid study, you may need to apply Oracle Clinical accessibility rules. In Oracle Clinical, if a study requires Pass 2 Data Entry, Oracle Clinical does not mark the CRF as accessible until Pass 2 is complete. If a study does not require two passes, Oracle Clinical marks the CRF as accessible when Pass 1 is complete (Entry Complete).

- If **Use the OC Accessibility Rules** is set to **N**, when a CRF becomes Entry Complete, RDC Onsite marks the CRF as accessible and runs the ONLINE/DCM procedures when the CRF is saved. In addition, Oracle Clinical also processes the CRF during the next batch validation.
- If **Use the OC Accessibility Rules** is set to **Y** and the study requires two passes, RDC Onsite does not mark the CRF as accessible until the CRF reaches a status of Pass 2 Complete. As a result, the ONLINE/DCM procedures are not run until the CRF reaches a status of Pass 2 Complete.
- If **Use the OC Accessibility Rules** is set to **Y** and the study *does not* require two passes, the behavior is the same as if there is no accessibility setting. When a CRF becomes Entry Complete, RDC Onsite marks the CRF as accessible and runs the ONLINE/DCM procedures when the CRF is saved. In addition, Oracle Clinical also processes the CRF during the next batch validation.

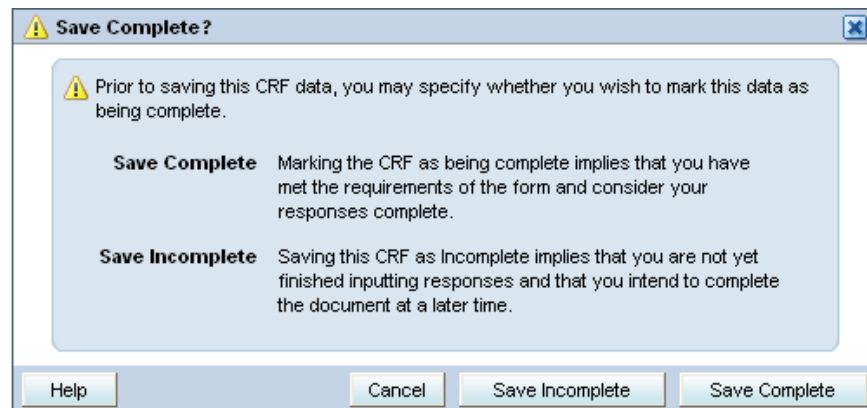
### 3.3.6 Disabling the Save Complete Prompt

The **Prompt for Save Complete in HTML Mode** configuration setting lets you give users the chance to save a CRF as data complete or data incomplete.

It may be convenient to allow users to save a CRF in an incomplete status. When a CRF is saved incomplete, responses are saved to the database, but no validation procedures are executed and no prompt for change reason is issued when data is updated. Saving a CRF as incomplete implies that the user is not yet finished inputting responses and that the user intends to complete the CRF at a later time.

If **Prompt for Save Complete in HTML Mode** is set to **Y**, RDC Onsite displays a dialog box that lets the user click **Save Incomplete** or **Save Complete** to save the CRF.

If you always want CRFs to be saved in a complete status, specify **N** for this setting. In this case, RDC Onsite displays no prompt before saving the CRF. The user has no option to save the CRF as incomplete.



If the Preferences link is available in the Data Entry window, the user can control whether RDC Onsite prompts to save the CRF as complete or incomplete. If you do not want the user to be able to change the preferences, set the **Hide the Preferences Menu** configuration setting to **Y**. See [Section 3.3.2, "Hiding the Preferences Links"](#) for information.

### 3.3.7 Specifying a Default Highlighting Scheme for the Data Entry Window

In the Data Entry window, RDC Onsite uses color to highlight fields in a CRF that have discrepancies, investigator comments, an audit history, or changes since the last verification or approval.

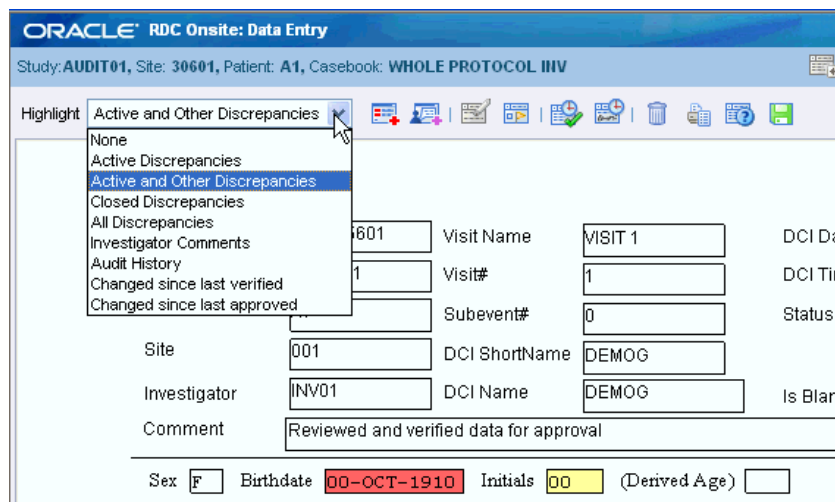
You use the **Default CRF Highlighting in HTML Mode** configuration setting to specify the initial highlighting scheme for the Data Entry window.

Table 3–4 lists the valid values for the highlighting scheme. You can also position the cursor in the Value field on the RDC Configurations form, and then press **F9** to select from the list of valid values.

**Table 3–4 Valid Values for the Highlighting Scheme in the Data Entry Window**

Value	Description
NONE	Highlights no fields.
ACTIVE_DISC	Highlights all fields that have active discrepancies.
OPEN_DISC	Highlights all fields that have an open discrepancy. Open discrepancies include active and other discrepancies.
CLOSED_DISC	Highlights all fields that have closed discrepancies. (These are manually resolved discrepancies not system closed discrepancies).
ALL_DISC	Highlights all fields that have a discrepancy.
INV	Highlights all fields that have an investigator comment.
AUDIT	Highlights all fields that have an audit history.
CHANGED_SINCE_LAST_VERIFY	Highlights all fields that have changed since the last verification. Note that fields whose only update is an update to the investigator comment are highlighted.
CHANGED_SINCE_LAST_APPROVE	Highlights all fields that have changed since the last approval. Note that fields whose only update is an update to the investigator comment are highlighted.

The user has these same options available in the Highlight field in the Data Entry window. The user can change the setting and choose to highlight different fields during a session. Once changed, the setting persists throughout the session until the user either changes the highlighting again or changes to another study. The next time the user logs in, RDC Onsite reverts to the default setting defined in the configuration.



### 3.3.8 Allowing Access to CRFs Entered via Oracle Clinical or RDC Classic

The **Allow HTML Data Entry for Non-migrated CRFs** configuration setting affects how RDC Onsite treats CRFs that were entered via batch load operation, Oracle Clinical data entry, or RDC Classic data entry, and you choose NOT to migrate those CRFs to DCI Forms.

- If set to **N**, RDC Onsite prevents users from opening and updating those non-migrated CRFs.
- If set to **Y**, RDC Onsite lets users open and update CRFs entered in Oracle Clinical or RDC Classic, even if those CRFs have not been migrated to a DCI Form. (This assumes that a DCI Form exists for the DCI.)

You can control whether RDC Onsite displays a warning message when the user opens a non-migrated CRF. See [Section 5.1.8, "Suppressing Prompts and Warnings"](#) for more information.

### 3.3.9 Suppressing the Validation Error Alert

During data entry or data update, RDC Onsite checks the information for possible validation errors. RDC Onsite checks the data against the rules defined for the study in Oracle Clinical. For example, RDC Onsite can check if the data is the correct type (numeric, alphabetic, date), exceeds a maximum length, or matches a value in a discrete value group. If the data is incorrect, RDC Onsite displays an error message. Users have the opportunity to correct the data before continuing to the next field.

**Validation Error**

Reason **Upperbound**

Description Value of 800 for Systolic BP above expected maximum of 300

Comment (optional)

Action

Review Status **Not yet reviewed**

Help Cancel OK

If the **Suppress Validation Error Alert in HTML Mode** configuration setting is set to **Y**, RDC Onsite does not display a message when a validation error occurs. Users can perform data entry without being interrupted by alerts when tabbing from a field where discrepant data has been entered.

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**Note:** When you suppress the validation error message, RDC Onsite still creates a discrepancy when the error occurs, but does not alert the user to the problem.

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If the Preferences link is available in the Data Entry window, the user can control whether RDC Onsite shows or hides the validation alert. If you do not want the user to be able to change the preferences, set the **Hide the Preferences Menu** configuration setting to **Y**. See [Section 3.3.2, "Hiding the Preferences Links"](#) for information.



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## Configuring Discrepancy Management

A **discrepancy** is any data that falls outside of an expected range of values or is otherwise flagged during the edit check process as an error. Examples of a discrepancy are an invalid date, an age greater than the maximum age for the study, and inconsistent information across CRFs.

**Discrepancy management** is the process that systematically addresses discrepancies generated within a study. For each discrepancy assigned to a user role, a user must identify the cause, assess the error, and determine the appropriate action. The user can choose to resolve the discrepancy or route it to another user. Correcting and managing discrepancies ensures that the data is complete, accurate, and compliant with the study protocol.

Using Oracle Clinical, you configure several features that help users manage discrepancies while entering and modifying data in the RDC Onsite application.

This chapter includes the following topics:

- [Tools for Configuring Discrepancy Management](#)
- [Defining the Reasons for Discrepancies](#)
- [Defining the Review Statuses for Discrepancies](#)
- [Configuring the Access Statuses for Discrepancies](#)
- [Configuring the Actions Allowed against Discrepancies](#)
- [Defining the Resolution Reasons for Discrepancies](#)
- [Preventing Update to OTHER Discrepancies](#)

## 4.1 Tools for Configuring Discrepancy Management

You use the reference codelists in Oracle Clinical to define your discrepancy management system for both Oracle Clinical and RDC Onsite.

To configure most settings for discrepancy management, you use the **installation** reference codelists in Oracle Clinical. The settings in the installation reference codelists apply to your entire installation.

**To access the installation reference codelists:**

1. Open Oracle Clinical.
2. Navigate to **Admin, Reference Codelists**, and then select **Installation Codelists**.

This chapter assumes you are familiar with querying, modifying, and saving reference codelists. If you need more information on reference codelists, see the *Oracle Clinical Administrator's Guide*.

## 4.2 Defining the Reasons for Discrepancies

A reason provides an explanation of why the discrepancy exists. You can define the reasons for:

- Manual discrepancies
- Univariate discrepancies
- Multivariate discrepancies

In RDC Onsite, users with the proper privileges can add a manual discrepancy to a CRF. In the Add Discrepancy dialog box, users must select a reason from the drop-down list that explains why they are adding the discrepancy. You use the MANUAL SOURCE TYPE CODE reference codelist to define these reasons.

For system-generated univariate discrepancies, RDC Onsite automatically fills in the Reason field based on the type of discrepancy. You define these reasons in the Standard Text Maintenance form.

For system-generated multivariate discrepancies, RDC Onsite does not display the reason. You can, however, customize the reasons for use in Oracle Clinical, which does display the reason for a multivariate discrepancy.

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**Note:** The Maintain Discrepancy Database form in Oracle Clinical labels the Reason as Category.

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### 4.2.1 Defining the Reasons for Manual Discrepancies

In RDC Onsite, a user can add the following types of manual discrepancies:

- Field discrepancy
- Section discrepancy

When a user adds a manual discrepancy to a CRF, RDC Onsite displays the Add Discrepancy dialog box. The user must select a reason for the discrepancy from the list in the Reason field. Optionally, the user can enter additional comments about the discrepancy.

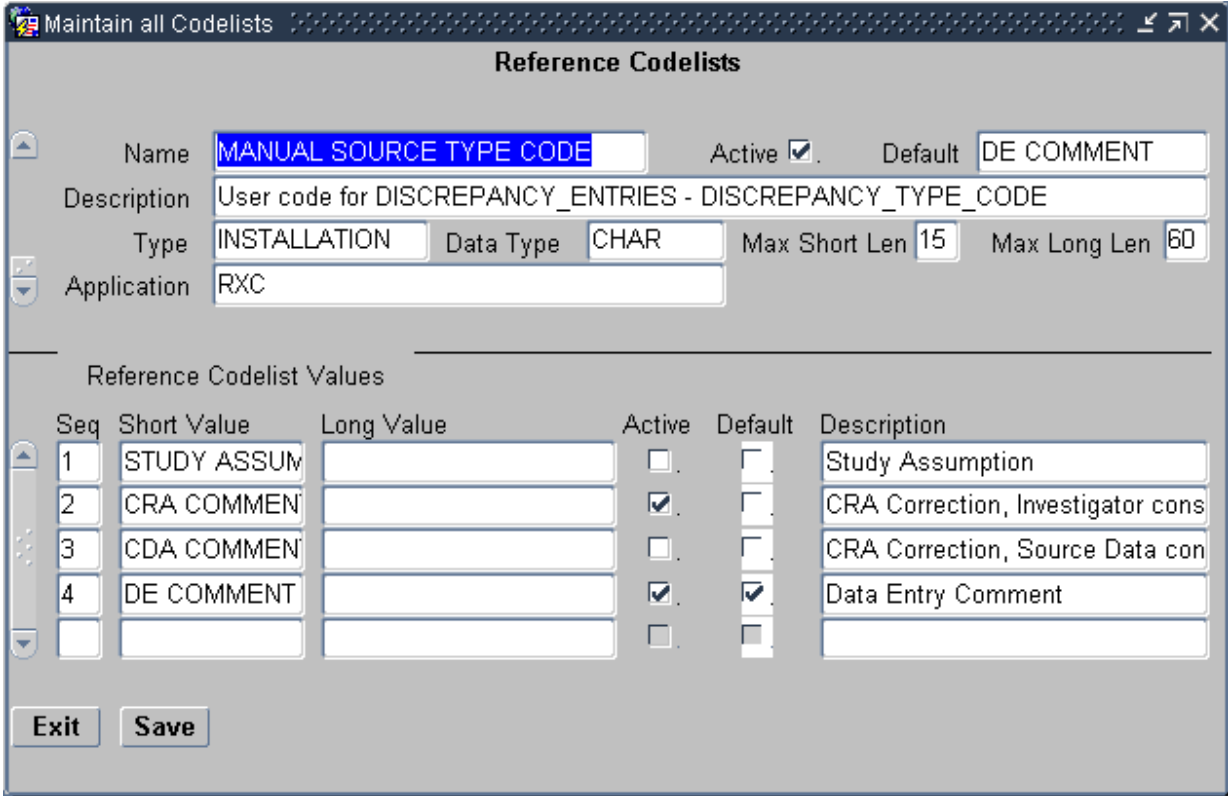


To define the list of reasons for a manual discrepancy, you modify the MANUAL SOURCE TYPE CODE reference codelist in Oracle Clinical. (See Figure 4-1.) For each reason, you enter values into the Short Value field and the Description field.

RDC Onsite displays the text you enter in the Description field as the list of reasons that the user can select from when adding a manual discrepancy. Oracle Clinical stores the short value in the database.

The first time the user adds a manual discrepancy during a login session, RDC Onsite automatically displays the default reason in the Reason field. The user can select a different reason from the drop-down list. For subsequent manual discrepancies added by the user, RDC Onsite displays the last reason the user selected. The user can always select a different reason.

Figure 4-1 Defining the Reasons for a Manual Discrepancy



## 4.2.2 Defining the Reasons for Univariate Discrepancies

When a univariate discrepancy is raised, RDC Onsite automatically determines which reason to use based on the type of univariate discrepancy. Examples of reasons for univariate discrepancies are DATA TYPE, LENGTH, and MANDATORY.

To define the reasons for univariate discrepancies:

1. Open Oracle Clinical.
2. Navigate to **Admin, Discrepancy Mgmt Admin**, and then select **Standard Text Maintenance**. See [Figure 4-2](#).

**Figure 4-2** Defining the Reasons for Univariate Discrepancies

Text Type	Sub Type	Standard Text Name	Default	Standard Text
COMMENT	DATA TYPE	DATA TYPE	<input type="checkbox"/>	Value of \VALUE_TEXT\ for \SAS_LABEL\
COMMENT	DATA TYPE	INCORRECT DATA	<input type="checkbox"/>	Value of \VALUE_TEXT\ for is not a val
COMMENT	DATA TYPE	INCORRECT DATA_2	<input checked="" type="checkbox"/>	Value of \VALUE_TEXT\ for is not a val
COMMENT	DVG	DVG	<input checked="" type="checkbox"/>	Value of \VALUE_TEXT\ for \SAS_LABEL\
COMMENT	DVG SUBSET	DVG SUBSET	<input checked="" type="checkbox"/>	Value of \VALUE_TEXT\ for \SAS_LABEL\
COMMENT	INDICATOR NO	INDICATOR NO	<input checked="" type="checkbox"/>	Data was entered but \SAS_LABEL\ w
COMMENT	INDICATOR YES	INDICATOR YES	<input checked="" type="checkbox"/>	No data was entered but \SAS_LABEL
COMMENT	LENGTH	LENGTH	<input checked="" type="checkbox"/>	Value of \VALUE_TEXT\ for \SAS_LABEL
COMMENT	LOWERBOUND	LOWERBOUND	<input checked="" type="checkbox"/>	Value of \VALUE_TEXT\ for \SAS_LABEL
COMMENT	MANDATORY	MANDATORY	<input checked="" type="checkbox"/>	Value for \SAS_LABEL\ has not been s
COMMENT	MISSING_PT	MISSING_PT	<input checked="" type="checkbox"/>	Value of \VALUE_TEXT\ for \SAS_LABEL
COMMENT	MISSING_SCT	MISSING_SCT	<input checked="" type="checkbox"/>	Value of \VALUE_TEXT\ for \SAS_LABEL
COMMENT	PARTIAL DATE	PARTIAL DATE	<input checked="" type="checkbox"/>	Value of \VALUE_TEXT\ for \SAS_LABEL
COMMENT	PRECISION	PRECISION	<input checked="" type="checkbox"/>	Value of \VALUE_TEXT\ for \SAS_LABEL
COMMENT	THESAURUS	THESAURUS	<input checked="" type="checkbox"/>	Value of \VALUE_TEXT\ for \SAS_LABEL

You use the fields in the Standard Text Maintenance form to describe each type of univariate discrepancy as follows:

- **Text Type** — Select COMMENT to indicate that this row defines one description for a univariate discrepancy.
- **Sub Type** — Select from the list of valid types of univariate discrepancies.
- **Standard Text Name** — Ordinarily, you specify a name to match the Sub Type. However, if you want to specify more than one reason for a discrepancy type, use this field to specify a unique identifier.
- **Default** — If you specify more than one reason for a certain type of discrepancy, select which reason is the default value. RDC Onsite uses the default value the first time a discrepancy of that type is raised. The user can always select one of the alternative reasons provided.
- **Standard Text** — Specify the description that you want RDC Onsite to display for the discrepancy type raised. Note that you can use variables to include the data value of the discrepant response as well as the definitional components of the question.

See the *Oracle Clinical Administrator's Guide* for details on creating default standard text depending on the type of univariate discrepancy.

### 4.2.3 Defining the Reasons for Multivariate Discrepancies

Oracle Clinical raises multivariate discrepancies in RDC Onsite when Oracle Clinical executes its defined validation procedures. Although you can customize the reason for a multivariate discrepancy, RDC Onsite does not display the reason for a multivariate discrepancy.

However, Oracle Clinical does display the reason. For details on how to create and modify procedures to customize the reason description for multivariate discrepancies, see *Oracle Clinical Conducting a Study*.

## 4.3 Defining the Review Statuses for Discrepancies

When a user takes **action** on a discrepancy, the discrepancy goes to a new **review status**. For system-generated discrepancies (univariate and multivariate), the system assigns the default review status. For manual discrepancies, the user selects the review status.

One task you perform in configuring your discrepancy management system is to map an **action** to a resultant **review status**. You use the DISCREPANCY REV STATUS CODE installation codelist to define all the discrepancy review statuses possible to use in your discrepancy management workflow.

Both the RDC Onsite and the Oracle Clinical discrepancy management systems use the DISCREPANCY REV STATUS CODE codelist.

RDC Onsite uses the text string in the Description field to display the status of a discrepancy in any discrepancy management-related window, form, page, or report. Oracle Clinical uses the text string in the Short Value field to display the status of a discrepancy.

### 4.3.1 Default Entries for the DISCREPANCY REV STATUS CODE Codelist

Table 4–1 lists the entries in the DISCREPANCY REV STATUS CODE codelist following the initial installation of Oracle Clinical.

**Table 4–1 Default Entries for the DISCREPANCY REV STATUS CODE Codelist**

Short Value	Long Value	Description
CRA REVIEW	Null	Under CRA Review
INV REVIEW	Null	Under Investigator Review
RESOLVED	IRRESOLVABLE	Closed - resolved
IRRESOLVABLE	IRRESOLVABLE	Irresolvable (That is, closed. Cannot be resolved.)
TMS EVALUATION	TMS EVALUATION	TMS Evaluation
UNREVIEWED	Null	Not yet reviewed
TMS IN PROGRESS	TMS IN PROGRESS	TMS in Progress - Set/Reset by system
DM REVIEW	Null	Under DM Review
INT DM REV	Null	Internal - Under DM Review
INT CRA REV	Null	Internal - Under CRA Review

### 4.3.2 Rules for the DISCREPANCY REV STATUS CODE Codelist

When entering and modifying values in the DISCREPANCY REV STATUS CODE reference codelist, you must follow these rules:

- The codelist must contain at least one short value entry with a long value of IRRESOLVABLE, which indicates that a user must specify a resolution reason when setting a discrepancy to this status. By default, the codelist contains the short values RESOLVED and IRRESOLVABLE, which are each assigned the long value IRRESOLVABLE.
- The codelist must contain a short value entry of UNREVIEWED. The Active check box corresponding to the value must always be selected. The UNREVIEWED value is the system-coded default status of any newly created discrepancy, except multivariate discrepancies. For multivariate discrepancies, the initial review status is defined in the Details block of the Oracle Clinical validation procedure that generates the discrepancy.
- The codelist must **NOT** contain a short value entry of CLOSED. The system reserves the CLOSED value as the status for any system-resolved discrepancy, that is, a data discrepancy that was resolved as the result of an update to a non-discrepant value.
- The Active checkbox must be selected for each review status that you want to allow for a certain user role. In other words, if you set an entry in a DISCREPANCY STATUS *role* codelist to active, then you must also set the corresponding entry in the DISCREPANCY REV STATUS CODE codelist to active.

Conversely, if you set an entry in the DISCREPANCY REV STATUS CODE codelist to inactive, you must also set the corresponding entry in each DISCREPANCY STATUS *role* codelist to inactive. If not, users receive an error message that problems exist with the discrepancy management system.

## 4.4 Configuring the Access Statuses for Discrepancies

RDC Onsite uses the access status to control whether a user can take action against a discrepancy.

When Oracle Clinical is installed, the system automatically creates the following DISCREPANCY STATUS *role* codelists, where *role* specifies one of the default user roles:

- DISCREPANCY STATUS CRA
- DISCREPANCY STATUS DM
- DISCREPANCY STATUS INV
- DISCREPANCY STATUS SITE

Only RDC Onsite uses the set of DISCREPANCY STATUS *role* codelists. Each codelist is specific to a user role.

In addition, each codelist maps the Oracle Clinical discrepancy **review statuses** to the RDC Onsite discrepancy **access statuses** appropriate to the user role. RDC Onsite uses the codelist to determine the access status of the discrepancies for a user based on the user's role.

## 4.4.1 Access Status Values

In each DISCREPANCY STATUS *role* codelist, the short value defines the discrepancy review status. Recall that every short value in each DISCREPANCY STATUS *role* codelist must also appear in the DISCREPANCY REV STATUS CODE codelist.

The long value defines the discrepancy access status. The access status determines whether users in a certain role can take action on a discrepancy.

Long values must be in uppercase. Acceptable values for the long value are:

- **ACTIVE** — The current user can take action against this discrepancy.
- **OTHER** — The discrepancy requires the attention of a different user role. You can prevent users from taking action on OTHER discrepancies. See [Section 4.7, "Preventing Update to OTHER Discrepancies"](#) for more information.
- **HIDDEN** — The current user cannot view or take action against this discrepancy.

This functionality is intended only for section-type discrepancies. At run time, if the user selects a univariate or multivariate discrepancy, the Action drop-down list excludes any action that would route the discrepancy to a status that is HIDDEN for any role.

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**Note:** If you change the long value to HIDDEN for a status that has already been applied to univariate or other types of discrepancies, these existing discrepancies are hidden to users with the relevant role, even though only section discrepancies are intended to allow hiding.

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- **CLOSED** — If the discrepancy was manually closed by a user, any user with UPDATE or UPD\_DISCREP privilege can re-open the discrepancy. System-closed discrepancies cannot be re-opened.

Note that the discrepancy access status does not determine what functions a user can perform on the discrepancy or the patient data. The DISCREPANCY ACTIONS *role* codelists determine what routing and resolution actions each user role can take on a discrepancy.

## 4.4.2 Colors Used to Indicate Discrepancy Access Status

[Table 4-2](#) describes the colors that RDC Onsite uses to indicate the status of the discrepancies, if any, in a CRF. RDC Onsite uses these colors to highlight the patient icon, the CRF icon, and the individual fields in a CRF.

Note that:

- HIDDEN discrepancies are not highlighted in any color because they are not visible to particular user roles.
- RDC Onsite uses green to highlight the fields in a CRF that have a discrepancy that was manually closed by the user. Fields with a system-closed discrepancy are not highlighted.

**Table 4–2 Colors Used to Indicate Discrepancy Access Status**

Color	Access Status	Implication
Red	ACTIVE	The CRF contains at least one open discrepancy that requires attention by the user role to which the current user is assigned.
Yellow	OTHER	The CRF contains only open discrepancies that require the attention of a user role different from the one to which the current user is assigned.
White	CLOSED	The CRF contains no visible open discrepancies. Three conditions may be true for a white CRF or patient icon: <ul style="list-style-type: none"> <li>■ The CRF may contain discrepancies that are hidden from the current user's user role.</li> <li>■ The CRF may have contained discrepancies at one time, but all discrepancies are closed or obsolete.</li> <li>■ The CRF never had any discrepancies.</li> </ul>

### 4.4.3 Default Entries for the DISCREPANCY STATUS *role* Codelists

The access status depends upon the current user's user role and upon how you configure each review status to appear to that user role. For example, a discrepancy with a review status of **Under CRA Review** should appear as ACTIVE to a CRA, but as OTHER to an investigator.

Table 4–3 lists the entries for the DISCREPANCY STATUS *role* codelists for the default user roles.

If you combine the information in Table 4–2 and Table 4–3, you can find how a user assigned the DM role sees a discrepancy of review status DM REVIEW with a red highlight (ACTIVE), while a user assigned the SITE role sees the same discrepancy with a yellow highlight (OTHER).

**Table 4–3 User Roles and the Default RDC Onsite Discrepancy Access Statuses**

Short Value – Oracle Clinical Discrepancy Review Status	Long Value – RDC Onsite Discrepancy Access Status			
	CRA	DM	INV	SITE
UNREVIEWED	ACTIVE	ACTIVE	ACTIVE	ACTIVE
CRA REVIEW	ACTIVE	OTHER	OTHER	OTHER
INV REVIEW	OTHER	OTHER	ACTIVE	OTHER
DM REVIEW	OTHER	ACTIVE	OTHER	OTHER
TMS EVALUATION	OTHER	OTHER	OTHER	OTHER
TMS IN PROGRESS	OTHER	OTHER	OTHER	OTHER
RESOLVED	CLOSED	CLOSED	CLOSED	CLOSED
IRRESOLVABLE	CLOSED	CLOSED	CLOSED	CLOSED
CLOSED	CLOSED	CLOSED	CLOSED	CLOSED
INT CRA REV	ACTIVE	OTHER	HIDDEN	HIDDEN
INT DM REV	OTHER	ACTIVE	HIDDEN	HIDDEN
INT RESOLVED	CLOSED	N/A	CLOSED	CLOSED

#### 4.4.4 Rules for the DISCREPANCY STATUS *role* Codelist

When entering and modifying values in a DISCREPANCY STATUS *role* codelist, you must follow these rules:

- Each DISCREPANCY STATUS *role* codelist must include all short values that appear in the DISCREPANCY REV STATUS CODE codelist, and must not contain any values not in that codelist. When you add a short value to one codelist, you must add the same short value to the other codelist. (An exception is the CLOSED status, described below).

You then use the Active check box to enable and disable the review status for a user role.

- Each codelist must contain the short value CLOSED, which has a corresponding long value CLOSED. This is the status that is used for any system-resolved discrepancy, that is, a data discrepancy that was resolved as the result of an update to a non-discrepant value.
- The RESOLVED and IRRESOLVABLE short values must have a long value of CLOSED for all roles.
- If a review status is CLOSED for one user role it must be either CLOSED or HIDDEN for all other user roles. Note also that for any review status that appears as CLOSED in a DISCREPANCY STATUS *role* codelist, the DISCREPANCY REV STATUS CODE codelist must represent the review status with a long value of IRRESOLVABLE.

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**Note:** Both RDC Classic and RDC Onsite use these reference codelist values. RDC Classic does not support the CLOSED display status for any review status except RESOLVED and IRRESOLVABLE.

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- The setting of the Active check box determines whether discrepancies of that status are visible to users with the relevant role. If the Active check box is not selected, users with the role cannot see discrepancies of that status. If the Active check box is selected, users with the role can see discrepancies of that status. The way discrepant values are displayed depends on the long value.

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**Note:** Either disabling the Active check box or setting the long value to HIDDEN has the effect of hiding discrepancies of the relevant status from users with the relevant role. However, to ensure compatibility with future releases and to avoid confusion between the two settings, Oracle recommends that you use the Active check box to hide discrepancies. In addition, the Active check box lets you hide all types of discrepancies (section, manual field, univariate, or multivariate). The HIDDEN value lets you hide section discrepancies only.

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- If an entry in a DISCREPANCY STATUS *role* codelist is active, then the corresponding entry in the DISCREPANCY REV STATUS CODE codelist must also be active. If not, the discrepancy configuration is invalid. RDC Onsite will display an error message to alert users to the problem.
- The Description field is optional for all entries.
- The setting of the Default check box has no effect. The default status of a new discrepancy is always UNREVIEWED.

## 4.5 Configuring the Actions Allowed against Discrepancies

In RDC Onsite, a user changes the review status of a discrepancy by selecting an option from the list in the Action field. You use the DISCREPANCY ACTIONS *role* codelists to define the set of routing and resolution actions that each user role can take against discrepancies.

When Oracle Clinical is installed, the system automatically creates the following DISCREPANCY ACTIONS *role* codelists, where *role* specifies one of the default user roles:

- DISCREPANCY ACTIONS CRA
- DISCREPANCY ACTIONS DM
- DISCREPANCY ACTIONS INV
- DISCREPANCY ACTIONS SITE

Only RDC Onsite uses the set of DISCREPANCY ACTIONS *role* codelists. Each codelist is specific to a user role.

In the Short Value field, you enter the name of the discrepancy review status for which users of the relevant role can take action on the discrepancies. The status you specify must be listed in the DISCREPANCY REV STATUS CODE codelist.

In the Long Value field, you enter the text that RDC Onsite displays in the Action drop-down list. You use the Active check box to enable the action.

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**Note:** At run time, if the user selects a univariate or multivariate discrepancy, the Action drop-down list excludes any action that would route the discrepancy to a status that is HIDDEN (that is, has a long value of HIDDEN in the DISCREPANCY STATUS *role* codelist) for any role.

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### 4.5.1 Default Entries for the DISCREPANCY ACTIONS *role* Codelists

Table 4–4 lists the default entries for the DISCREPANCY ACTIONS DM codelist, which defines the allowed actions for the Data Manager (DM) user role.

**Table 4–4** Default Entries for the DISCREPANCY ACTIONS DM Codelist

Short Value (Resulting Review Status)	Long Value (Action)
INV REVIEW	Send to site
TMS EVALUATION	Send for classification
RESOLVED	Close - resolved
IRRESOLVABLE	Closed - no resolution
INT CRA REV	Internal CRA Review

### 4.5.2 Rules for the DISCREPANCY ACTIONS *role* Codelist

When entering and modifying values in a DISCREPANCY ACTIONS *role* reference codelist, you must follow these rules:

- Each DISCREPANCY ACTIONS *role* codelist must contain a subset of the short values (the statuses) defined in the DISCREPANCY REV STATUS CODE codelist. The long value specifies an action that the user can take against a discrepancy. The



corresponding short value, which must match a short value in the DISCREPANCY REV STATUS CODE codelist, identifies the status RDC Onsite assigns to the discrepancy when the user selects the action.

- CLOSED should **not** appear as a short value in any DISCREPANCY ACTIONS *role* codelist.
- You must specify text in the Long Value field. RDC Onsite displays this text in the Action drop-down list.
- The Description field is optional for all entries.

## 4.6 Defining the Resolution Reasons for Discrepancies

In RDC Onsite, users can manually resolve discrepancies. When doing so, the user must also provide an explanation — a reason — for resolving the discrepancy. The user must select a resolution reason from the list that you define.

To define the possible set of resolution reasons, you use the DISCREPANCY RESOLU TYPE CODE installation reference codelist.

You enter information into the Description field and the Short Value field. RDC Onsite uses the text string that you specify in the Description field to display the list of resolution reasons to the user. Oracle Clinical stores the corresponding short value in the database.

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**Note:** RDC Onsite reserves the CND BLK DELETED value as the resolution for a manual discrepancy associated with a conditional block that was deleted. The value is hard-coded. Do not add or use this value in the DISCREPANCY RESOLU TYPE CODE codelist.

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Table 4–5 lists the entries in the DISCREPANCY RESOLU TYPE CODE codelist following the initial installation of Oracle Clinical.

**Table 4–5 Values for the DISCREPANCY RESOLU TYPE CODE**

Short Value	Long Value	Description
CRA VERIFY	CONFIRMED	CRA Correction
CRA VERIFY-INV	CONFIRMED	CRA Correction, Investigator consulted
CRA VERIFY-SRC	CONFIRMED	CRA Correction, Source Data consulted
INV VERIFY	CONFIRMED	Investigator Correction
STUDY ASSUMP	CONFIRMED	Study Assumption
NO ACTION REQD	CONFIRMED	No Action Required
ELIMINATED	SUPERSEDED	Data value changed. Disc no longer applicable.
OVERRULED	NON DISCREPANT	Disc not considered a validation error.
DATA MODIFIED	SUPERSEDED	Data value changed. Disc no longer applicable.
INV-NO INFO	IRRESOLVEABLE	Investigator queried. No further information available.

## 4.7 Preventing Update to OTHER Discrepancies

Only RDC Onsite uses the DISCREPANCY NO OTHER UPDATE installation codelist.

You can use the DISCREPANCY NO OTHER UPDATE codelist to specify which user roles do not have access to and cannot update discrepancies that appear to them with a status of OTHER.

By default, the DISCREPANCY NO OTHER UPDATE codelist has no values. All users can update discrepancies with a status of OTHER. To prevent users from updating OTHER discrepancies, you add one or more user roles to the codelist.

### To prevent users with a particular role from updating OTHER discrepancies:

1. Open the DISCREPANCY NO OTHER UPDATE codelist.
2. Enter the role name in the Short Value field. The value you enter must be exactly the same as one of the long values in the USER GROUP ROLES reference codelist. For example, CRA, INV, or SITE.

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**Caution:** The system does not check the validity of your entries. You must be careful to specify only valid user roles. If the values do not match exactly, users with the role will still be able to update OTHER discrepancies.

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3. Select the **Active** check box. An active entry indicates the user role cannot update OTHER discrepancies.
4. Save your work.

The Seq, Long Value, Default, and Description fields are not used by RDC Onsite.

You can grant this privilege to any number of roles.

To allow the update of OTHER discrepancies for a role that you added to the DISCREPANCY NO OTHER UPDATE codelist, you can either:

- Delete the record by using the command on the Data menu.
- Make the value inactive by clearing its Active check box.

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## Customizing Data Entry Behavior

You can customize the behavior of data entry in RDC Onsite by modifying the DCI Form Runtime settings and several reference codelists in Oracle Clinical.

This chapter assumes you are familiar with modifying forms and reference codelists in Oracle Clinical. For general information about how to modify forms and reference codelists, see the *Oracle Clinical Administrator's Guide*.

This chapter includes the following topics:

- [Configuring the DCI Form Runtime Settings](#)
  - [Enabling HTML Data Entry for RDC Onsite](#)
  - [Displaying the Visit-Owning Interval on the Casebooks Page](#)
  - [Allowing Investigator Comments](#)
  - [Adding a Customized Reference Field to the Search Pane](#)
  - [Controlling the Display of Conditional Blocks within a CRF](#)
  - [Suppressing Prompts and Warnings](#)
- [Using DCI Book Assignment](#)
- [Specifying CRFs for Single Use](#)
- [Customizing the Display of a List of Values](#)
- [Defining the List of Allowable Change Reasons](#)
- [Setting the Format of Dates](#)

## 5.1 Configuring the DCI Form Runtime Settings

The DCI Form Runtime settings let you customize the RDC Onsite application, including the following options:

- [Enabling HTML Data Entry for RDC Onsite](#)
- [Displaying the Visit-Owning Interval on the Casebooks Page](#)
- [Allowing Investigator Comments](#)
- [Adding a Customized Reference Field to the Search Pane](#)
- [Controlling the Display of Conditional Blocks within a CRF](#)
- [Suppressing Prompts and Warnings](#)

In Oracle Clinical, you can configure the DCI Form Runtime settings at the database level or at the study level.

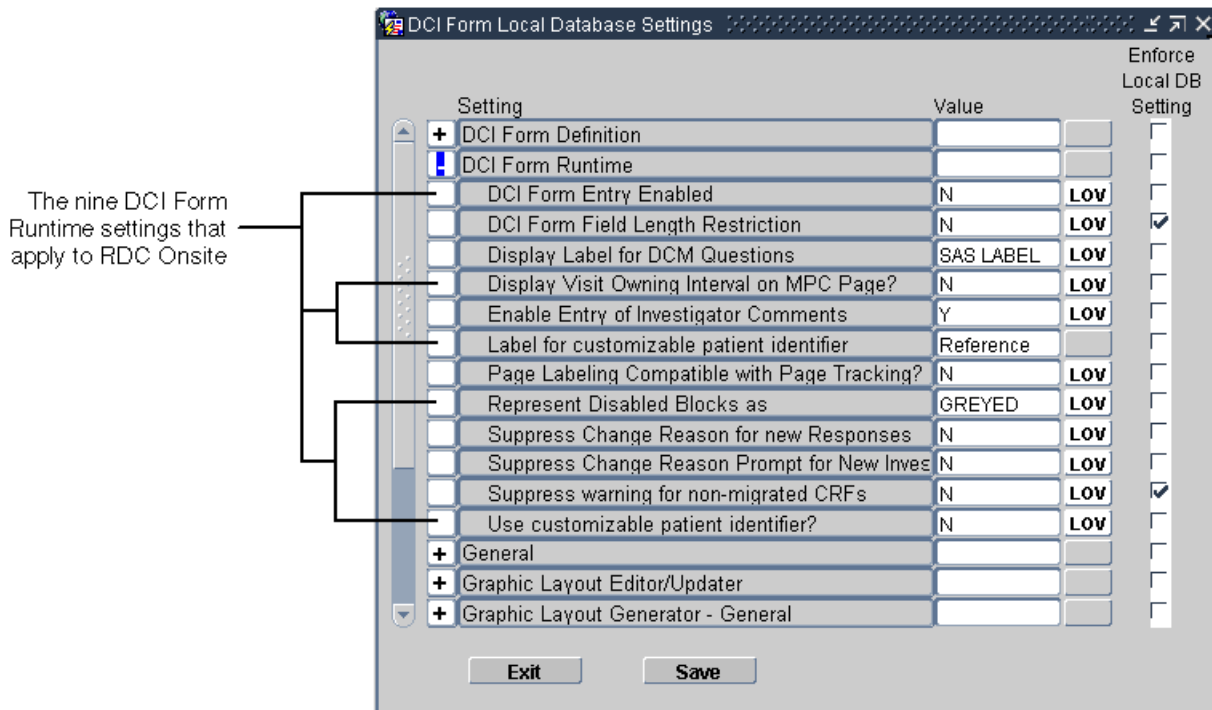
At the database level, the DCI Form Runtime settings define the default values when a new study is created. For each setting, you can choose to enforce the default value across all studies in the database or allow modification at the study level. You define the default values in the DCI Form Local Database Settings form.

### 5.1.1 Defining the DCI Form Runtime Settings at the Database Level

To define the DCI Form Runtime settings at the database level:

1. Open Oracle Clinical.
2. Navigate to **Admin** and select **DCI Form Local Database Settings**.
3. Expand the **DCI Form Runtime** node. See [Figure 5-1](#).

**Figure 5-1 DCI Form Runtime Settings for RDC Onsite**



4. Change the value of the settings you want. The sections that follow provide more information about each setting.
5. Select the **Enforce Local DB Setting** check box to always use this value as the default value.

If not selected, a user who has privileges to the DCI Form Study Database Settings form at the study level can override the default values.

Note that the **Enforce Local DB Setting** check box is always selected for the **Suppress warning for non-migrated CRFs** setting because you cannot change its value at the study level.

6. Save your changes.

### 5.1.2 Defining Report Settings at the Study Level

To define the DCI Form Runtime settings at the study level:

1. Open Oracle Clinical.
2. Navigate to **Design** and select **DCI Form Local Study Settings**.
3. Expand the **DCI Form Runtime** node.
4. Deselect the **Inherit From Local DB Setting** check box for any value you want to change.
5. Change the value of the settings you want. The sections that follow provide more information about each setting.
6. Save your changes.

### 5.1.3 Enabling HTML Data Entry for RDC Onsite

To allow RDC Onsite to collect data by presenting HTML forms to the user, you must configure the correct settings in Oracle Clinical. You enable data entry with DCI Forms at the study level. If you do not enable this setting, RDC Onsite does not display the study to the user.

**To enable a study to use HTML data entry:**

1. Open Oracle Clinical.
2. Navigate to **Conduct, Security**, and then select **Clinical Study States**.
3. Query for your study.
4. Select the study from the results of your query.
5. Enable the **DCI Forms Entry Enabled?** check box.
6. Save your changes.

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**Note:** The **DCI Forms Definition Enabled?** setting, which is also in the Clinical Study States form, controls the ability to define DCI Forms for the selected study.

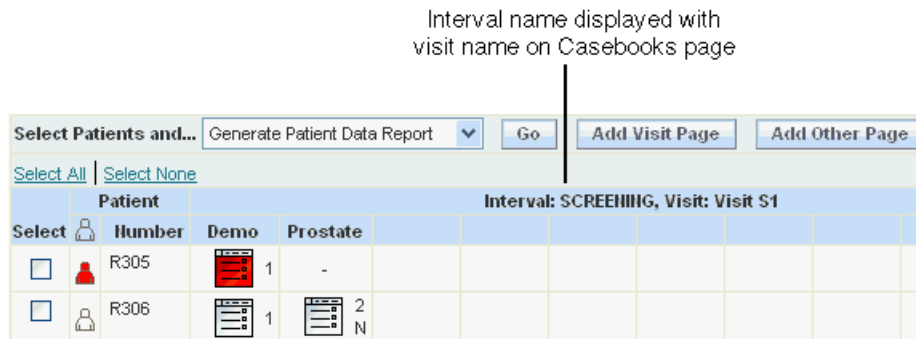
---

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### 5.1.4 Displaying the Visit-Owning Interval on the Casebooks Page

Use the **Display Visit Owning Interval on MPC Page?** setting to customize the spreadsheet heading on the RDC Onsite Casebooks page.

- If set to **Y**, the spreadsheet heading on the Casebooks page displays the name of the interval — phase, period, or subperiod — along with the name of the current visit.



- If set to **N**, the spreadsheet heading on the Casebooks page displays only the name of the current visit. The default value is **N**.

### 5.1.5 Allowing Investigator Comments

Use the **Enable Entry of Investigator Comments** setting to specify whether the RDC Onsite application allows users to enter and update investigator comments.

- If set to **Y**, RDC Onsite allows the entry of investigator comments. Users with UPDATE privileges can add investigator comments to a response field and update existing investigator comments. All users can review investigator comments in the Data Entry window and on the Review Investigator Comments page.
- If set to **N**, RDC Onsite does not allow the entry of any investigator comments by any user, regardless of privileges.

### 5.1.6 Adding a Customized Reference Field to the Search Pane

You can customize the RDC Onsite application to include an additional patient-level search field on the Home page and the Casebooks page.

This patient attribute field:

- Lets you search for a particular patient or a set of patients based on the contents of the field
- Can be up to 25 alphabetic, numeric, and special characters
- Supports wildcard searches (%)

To configure the customized field, you need to:

- Specify values for two DCI Form Runtime settings that define a label for the field and enable the customized field
- Write a procedure to populate the Patient Positions table with the user-entered value

### 5.1.6.1 Searching and Viewing Enhancements for the Customized Field

If you define and enable the custom field, RDC Onsite adds the following search and view enhancements to display the patient data associated with your customized field:

- Searching enhancements
  - RDC Onsite adds your customized field to the Patient Search pane on the Home page and to the Search pane on the Casebooks page.
  - When you specify search information in the field, the search runs against the Reported Patient Reference field in the Patient Positions table.
  - The customized field supports wildcard searches (%).
- Viewing enhancements
  - On the Home page, RDC Onsite adds a column to the Patient List and populates the column with the information defined in the Reported Patient Reference field in the Patient Positions table. The column heading uses the same name as the label you defined for your customized field.
  - On the Casebooks page, you can position the cursor over the patient icon or the patient number to reveal the data associated with your customized field.
  - On the Review CRFs page, Review Discrepancies page, and Review Investigator Comments page, you can position the cursor over the patient number to reveal the data associated with your customized field.

### 5.1.6.2 Labeling and Enabling Your Customized Search Field

To change the label (or name) of your customized search field, and to enable the field, use the following DCI Form Runtime settings:

- **Label for customizable patient identifier** — Specifies the text that labels the field. RDC Onsite uses this label for the additional search field displayed on the Home page and the Casebooks page, and as the column heading in the Patient List on the Home page. The default value is **Reference**.
- **Use customizable patient identifier?** — Defines whether to show or hide your customized search field. If set to **Y**, RDC Onsite enables your customized field, and adds searching and viewing enhancements to the application pages. If set to **N**, no changes occur in the RDC Onsite application. The default value is **N**.

You can set the default values at the database level, and then change the setting as needed at the study level.

### 5.1.6.3 Writing the Derivation Procedure to Use Your Customized Field

Your customized patient-level search field on the Home page and the Casebooks page lets RDC Onsite users search for a patient based upon the Reported Patient Reference value stored in the Patient Positions table.

To support population of the field, the `ocl_utils.update_pat` procedure includes an optional parameter (`vRepPatRef`), which allows the Reported Patient Reference value in the Patient Positions table (`rxa_des.patient_position`) to be updated.

**To populate your customized field:**

1. Write a procedure that will be triggered by a DCM of your choosing, such that when the response is entered, the Reported Patient Reference field in the Patient Positions table is populated with a value determined by your procedure.
2. Define your procedure to call the `ocl_utils.update_pat` procedure to update the Patient Positions table. The `ocl_utils.update_pat` package includes an optional parameter (`vRepPatRef`) for the customized Reported Patient Reference field.

If you do not want to change a particular field value for the patient, use `rxcpdstd.patients_rec.field-name` as a value for that parameter.

Table 5–1 describes the parameters in the `ocl_utils.update_pat` procedure.

**Table 5–1 Parameters in the `ocl_utils.update_pat`**

Parameter	Description	Example Values (assuming alias for DCM Question Group is <code>d</code> )
<code>vMode</code>	<ul style="list-style-type: none"> <li>■ T = Test mode</li> <li>■ P = Production mode</li> </ul>	<code>rxcpdstd.v_mode</code>
<code>npatpos</code>	ID for the patient that should be updated	<code>rxcpdstd.patients_rec.patient_position_id</code>
<code>vSex</code>	Value to use to update patient's gender: <ul style="list-style-type: none"> <li>■ F = female</li> <li>■ M = male</li> </ul>	<code>rxcpdstd.patients_rec.reported_sex</code> or <code>d.sex</code>
<code>vbirthday</code>	Value to use to update patient's date of birth	<code>rxcpdstd.patients_rec.reported_birthday</code> or <code>d.birthday</code>
<code>vinits</code>	Value to use to update patient's initials	<code>rxcpdstd.patients_rec.reported_initials</code> or <code>d.inits</code>
<code>vRepPatRef</code>	Value to use to update the patient attribute; the value must be 25 characters or less	<code>rxcpdstd.patients_rec.reported_patient_reference</code> or <code>d.reportedPatientRef</code>

Note: This parameter, which is new with this version of the `ocl_utils.update_pat` procedure, is optional. Therefore, if you have used previous versions, your existing procedures will continue to work.

For example, you can add the following lines to your procedure to update the patient reference using the `d.reportedPatientRef` question without updating the other values for the patient:

```
ocl_utils.update_pat (
    rxcpdstd.v_mode,
    rxcpdstd.patients_rec.patient_position_id,
    rxcpdstd.patients_rec.reported_sex,
    rxcpdstd.patients_rec.reported_birthday,
    rxcpdstd.patients_rec.reported_initials,
    d.reportedPatientRef)
```



## 5.1.7 Controlling the Display of Conditional Blocks within a CRF

When defining the questions for a CRF (that is, DCM questions), you can associate one or more conditions with a question. You can define a data response value so that when the user enters that value, other questions and fields become active, and the cursor automatically moves to a specified question within the same CRF. This action is called conditional branching.

With conditional branching, you can define a path through the CRF based on the responses enter. For example, you can use conditional branching to bypass pregnancy-specific questions if the patient is male.

You can the **Represent Disabled Blocks As** setting to control how RDC Onsite displays the conditional blocks within a CRF. You can choose one of the following options:

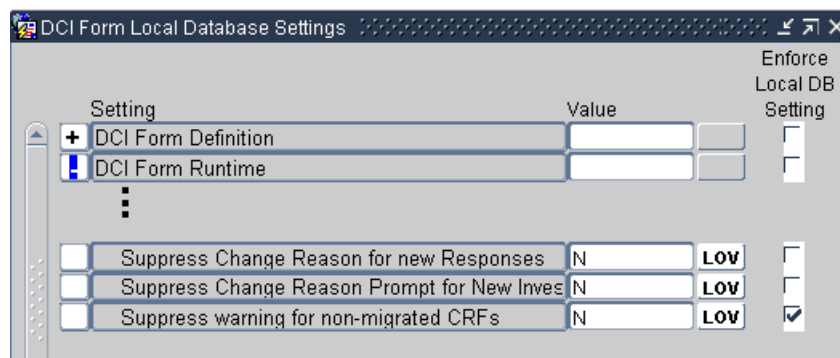
- Select **Greyed** if you want RDC Onsite to gray out the section in the CRF with the conditional questions. In this case, the user can see the section, but the questions remain disabled until a response value triggers the condition defined for the source question.
- Select **Hidden** if you want RDC Onsite to completely hide the section in the CRF with the conditional questions. The next expected questions, if any, are displayed in the same area, so there is no empty space. The section remains hidden until a response value triggers the condition defined for the source question.

For multi-page CRFs, RDC Onsite preserves the locations of page breaks relative to the questions in the form. Therefore, when conditional blocks are hidden, questions from the next CRF page are not moved to fill the resulting additional blank space on the page.

## 5.1.8 Suppressing Prompts and Warnings

You can use the DCI Form Runtime settings to suppress the:

- Change reason prompt for new responses
- Change reason prompt for new investigator comments
- Warning for non-migrated CRFs



### 5.1.8.1 Suppressing the Change Reason Prompt for New Responses

By default, RDC Onsite requires users to specify a change reason whenever they update any data in a CRF previously saved complete. Updating data includes adding new responses, modifying existing responses, and deleting responses.

If the **Suppress Change Reason for New Responses** setting is **Y**, RDC Onsite does not prompt users for a change reason when they add a *new* response (that is, a response entered *for the first time*) to a CRF previously saved complete. RDC Onsite automatically saves the change reason as RESP\_ADDED.

Note that RDC Onsite considers a response to be *new* only if:

- The response value is null.
- The response has no audit history.

The existence of an investigator comment or any investigator comment history does not factor into the audit history of a response. If a response is null and has always been null but has an investigator comment, the response is still considered new (that is, being entered for the first time).

Alternatively, you can completely suppress the change reason prompt whenever the user makes any type of update to a CRF previously saved complete. For more information, see [Section 5.5.2, "Suppressing the Reason for Change Dialog Box."](#)

### 5.1.8.2 Suppressing the Change Reason Prompt for Investigator Comments

If the **Suppress Change Reason Prompt for New Investigator Comment** setting is **Y**, RDC Onsite does not prompt investigators for a change reason the first time they enter a comment on a particular response.

### 5.1.8.3 Suppressing the Warning for Non-migrated CRFs

Use the **Suppress Warning for Non-migrated CRFs** setting to control whether RDC Onsite displays a warning message when the user opens a non-migrated CRF.

The **Allow HTML Data Entry for Non-migrated CRFs** configuration setting controls whether RDC Onsite users are able to open and update CRFs that were entered via batch load operation, Oracle Clinical data entry, or RDC Classic data entry, and you choose NOT to migrate those CRFs to DCI Forms.

The **Suppress Warning for Non-migrated CRFs** setting has meaning only if you allow data entry for non-migrated CRFs:

- If the **Allow HTML Data Entry for Non-migrated CRFs** configuration setting is set to **Y** and the **Suppress Warning for Non-migrated CRFs** setting is set **Y**, RDC Onsite does not display a warning message when the user opens a non-migrated CRF.
- If the **Allow HTML Data Entry for Non-migrated CRFs** configuration setting is set to **Y** and the **Suppress Warning for Non-migrated CRFs** setting is set **N**, RDC Onsite displays a message that the data in the CRF was originally entered using another interface.

See [Section 3.3.8, "Allowing Access to CRFs Entered via Oracle Clinical or RDC Classic"](#) for more information on allowing data entry for non-migrated CRFs.

## 5.2 Using DCI Book Assignment

Use DCI Book assignment in any study that uses multiple DCI Books, either sequentially for protocol amendments or in parallel for multi-arm studies. Assigning patients to DCI Books ensures that the correct forms are used for each patient.

Your options for assigning patients to DCI Books are:

- [Manually Assigning Patients to DCI Books Using Oracle Clinical](#)
- [Automatically Assigning the DCI Book upon Initial Data Entry](#)
- [Allowing Patient Book Assignments to Change](#)

Changing the book assignment, either manually or in a validation or derivation procedure, is one way to move a patient from a screening book to a treatment protocol, or from one treatment protocol to another. Likewise, protocol amendments can be introduced in a new DCI Book definition, and patients can be re-assigned to the new book as the protocol amendment is rolled out.

The OCL\_STATE local codelist has two values, BOOK\_CHANGE and BOOK\_ASSIGN, that you can use for DCI Book assignment and re-assignment. [Table 5–2](#) describes the codelist values for assigning DCI books.

**Table 5–2 Using DCI Book Assignment**

Short Value	Valid Long Values	Description
BOOK_ASSIGN	<ul style="list-style-type: none"> <li>▪ Y (default)</li> <li>▪ N</li> </ul>	Specifies whether RDC Onsite automatically assigns a DCI book to the patient upon initial data entry.
BOOK_CHANGE	<ul style="list-style-type: none"> <li>▪ ALLOW (default)</li> <li>▪ DISALLOW</li> <li>▪ DISALLOW IF DATA</li> </ul>	Determines whether the DCI book assignment for a patient can change.

### 5.2.1 Manually Assigning Patients to DCI Books Using Oracle Clinical

To use Oracle Clinical to manually assign patients to DCI Books:

1. Open Oracle Clinical.
2. Navigate to **Design, Patient Positions**, and then select **Patients**.
3. Select your study from the list of clinical studies.
4. Click **Patient Positions** to open the Patient Positions form.
5. Scroll to the right of the form.
6. Enter the DCI Booknames for one or more patients.

### 5.2.2 Automatically Assigning the DCI Book upon Initial Data Entry

As an alternative to pre-assigning DCI Books by manually updating the Patient Positions table, you can specify that RDC Onsite automatically assign each patient to a book upon initial data entry.

Automatic book assignment works as follows:

- You provide instructions, if necessary, to your RDC Onsite users as to what book to use for initial data entry.
  - If only one book is active in a study at a time, no instructions are necessary.
  - If you have multiple active books defined, instructions are needed. When first invoked, the RDC Onsite Casebooks page always displays the default casebook you specified at study definition time. RDC Onsite uses this casebook for entering data for unassigned patients. However, the user can select another casebook on the Casebooks page.
- When an RDC Onsite user enters and saves the first CRF for a patient, RDC Onsite automatically assigns the patient to the book in context; that is, RDC Onsite updates the Patient Positions table for that patient. Note that the assignment is ONLY made if the patient is currently unassigned.
- Once a patient is assigned to a casebook, RDC Onsite enforces use of the casebook for future data entry. The user can no longer change the casebook used simply by changing the casebook in context on the RDC Onsite Casebooks page.

**To set up automatic book assignment at study definition time:**

1. Open Oracle Clinical.
2. Define the DCI Book that RDC Onsite uses by default for entering data for patients.
  - a. Navigate to **Definition, DCIs**, and then select **DCI Books**.
  - b. Select the **Default** check box for the DCI Book to use as the default.
  - c. Save your changes.
3. Turn on automatic book assignment.
  - a. Navigate to **Admin, Reference Codelists**, and then select **Local Codelists**.
  - b. Query for the OCL\_STATE local reference codelist. (Enter **OCL\_STATE** in the Name field, and then press **F8** to execute the query.)
  - c. Scroll to the **BOOK\_ASSIGN** short value.
  - d. Set the long value to **Y**.

When set to Y, RDC Onsite automatically assigns the DCI Book you defined as the default for the study to each patient when data is first entered for the patient.
  - e. Save your changes.

### 5.2.3 Allowing Patient Book Assignments to Change

If you make use of a patient book assignment, you may expect the book assignment to change during the course of the study. The following are two examples where this may be the case:

- You define a new DCI Book to account for a protocol amendment. On a site-by-site basis, you update the Patient Positions table to assign patients to the new book.
- You use a Screening book for initial data entry, and based on responses in the Screening CRFs, you assign the patient to one of the arms (casebooks) of a multi-arm study.

**To allow a change in the patient or book assignment:**

1. Open Oracle Clinical.
2. Navigate to **Admin, Reference Codelists**, and then select **Local Codelists**.
3. Query for the OCL\_STATE local reference codelist.
  - a. Enter **OCL\_STATE** in the Name field.
  - b. Press **F8** to execute the query.
4. Scroll to the **BOOK\_CHANGE** short value.
5. Set the long value to **ALLOW**.
6. Save your changes.

### 5.3 Specifying CRFs for Single Use

Using options on the Casebooks page, RDC Onsite users can add unplanned CRFs and visits for a patient. You can use the SINGLE DCI TYPES installation reference codelist to specify the CRFs that the user cannot add.

The SINGLE DCI TYPES codelist contains the DCI types that do not allow duplicates. The user cannot add any DCI specified in this codelist as unplanned pages to a visit. In addition, if the user adds an unplanned visit to the study, the new visit includes only those DCIs that are not listed in the SINGLE DCI TYPES codelist.

By default, the SINGLE DCI TYPES codelist has the following values:

- DEMOGRAPHY
- COMPLETION

### 5.4 Customizing the Display of a List of Values

A **discrete value group** (DVG) is a set of responses (answers) that are acceptable for a given question. In other words, a DVG constrains the response to a distinct **list of values** (LOV) that are valid for the question. Some examples of questions with a limited list of values are:

- Gender: male, female
- Heart exam: normal, abnormal, not done
- Pain level: 1 (none), 2 (minor), 3 (moderate), 4 (severe), 5 (unbearable)

Using the DVG LOV STYLE setting in the local reference codelist, you can customize the way that Oracle Clinical and RDC Onsite display the list of values during data entry for questions associated with a DVG.

This section only describes the effects of the DVG LOV STYLE setting for RDC Onsite. For its effect on how Oracle Clinical displays a list of values during data entry, see the *Oracle Clinical Administrator's Guide*.

**To customize how RDC Onsite displays a list of valid values for a question:**

1. Open Oracle Clinical.
2. Navigate to **Admin, Reference Codelists, and Local Codelists**.
3. Query for the OCL\_DE\_CONFIG reference codelist.
  - a. Enter **OCL\_DE\_CONFIG** in the Name field.
  - b. Press **F8** to execute the query.
4. Scroll to the **DVG LOV STYLE** short value.
5. Specify the long value for DVG LOV STYLE. You can select either **SEQ** or **SHORT**.

The long value determines the *column order* that RDC Onsite uses to display the columns of information in the Acceptable List of Values dialog box.

The long value *does not* determine how RDC Onsite sorts the list of values. RDC Onsite always sorts the list of values by sequence number.

If you specify **SEQ**, RDC Onsite places the columns in the following order:

- **Sequence number**, which is titled Display Seq in the LOV. In addition, the sequence number is prefixed with A if it is an alpha DVG value.
- **DVG Short Value**, which is titled Value in the LOV.
- **DVG Long Value**, which is titled Description in the LOV.

If you specify **SHORT**, RDC Onsite places the columns in the following order:

- **DVG Short Value**, which is titled Value in the LOV.
- **Sequence number**, which is titled Display Seq in the LOV. In addition, the sequence number is prefixed with A if it is an alpha DVG value.
- **DVG Long Value**, which is titled Description in the LOV.

---

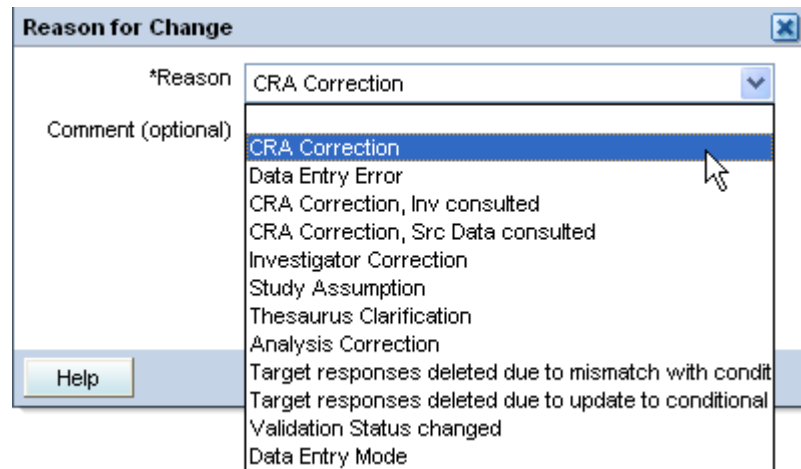
**Note:** If you specify **SHORT** and no alpha DVG is associated with the DCM question, RDC Onsite displays only two columns in the LOV: DVG Short Value and DVG Long Value. It does not display the sequence number column.

---

## 5.5 Defining the List of Allowable Change Reasons

By default, RDC Onsite requires users to specify a **change reason** whenever they update data in a CRF previously saved as complete.

As soon as the user updates a field and navigates away from it (by tab or mouse click), RDC Onsite displays the Reason for Change dialog box. The user must select one of the allowable reasons from the list.



This section describes how to:

- Customize the list of change reasons that RDC Onsite presents to the user, including how to access the codelists and how to define the default reason
- Suppress the Reason for Change dialog box

### 5.5.1 Accessing the Codelists to Customize the Change Reason Values

You customize the list of change reasons presented in RDC Onsite by using the following installation reference codelists:

- **DATA CHANGE REASON TYPE CODE** — Use this codelist to customize the list of acceptable change reasons for updates made to response or data fields, that is any field except a header field.
- **RDCI CHANGE REASON TYPE** — Use this codelist to customize the list of acceptable change reasons for updates made to header fields such as Visit date, Visit time, CRF comment, blank flag, lab, or qualifying value.

**To access the codelists for customizing the change reasons:**

1. Open Oracle Clinical.
2. Navigate to **Admin, Reference Codelists**, and then select **Installation Codelists**.
3. Query for the codelist you want to modify.

[Table 5–3](#) lists the initial values in the Data Change Reason Type Code codelist.

**Table 5–3 Initial Values for the DATA CHANGE REASON TYPE CODE Codelist**

Short Value	Description
DATA ENTRY ERR	Data Entry Error
BATCH	Batch
CRA CORR	CRA Correction
CRA CORR-INV	CRA Correction, Inv consulted
CRA CORR-SRC	CRA Correction, Src Data consulted
INV CORR	Investigator Correction
STUDY ASSUMP	Study Assumption
THES CLARIF	Thesaurus Clarification
ANALYSIS CORR	Analysis Correction
REMOVED	Received DCI Removed
COND VIOLATION	Target responses deleted due to mismatch with conditional response
VAL STATUS CHG	Validation Status changed
COND RESP UPDT	Target responses deleted due to update to conditional response
DATA ENTRY MODE	Data entry mode

### 5.5.1.1 Reserved Change Reason Values

Oracle Clinical and RDC Onsite reserve the following change reasons for system use:

- BATCH
- BROWSE
- KEY CHANGE
- PASS1
- PASS2
- RECONCILIATION
- REMOVED
- TRANSLATION
- UPDATE

You cannot specify these reserved change reasons in either the DATA CHANGE REASON TYPE CODE codelist or the RDCI CHANGE REASON TYPE codelist.

### 5.5.1.2 Identifying the Default Change Reason

In both the DATA CHANGE REASON TYPE CODE codelist and the RDCI CHANGE REASON TYPE codelist, select a Default check box to mark one of the change reasons as the default. See [Figure 5–2](#).

In a given RDC Onsite user session, the first Reason for Change dialog box pre-selects the default change reason, allowing the user to select any other change reason from the list. If the user selects another change reason, subsequent displays of the Reason for Change dialog box pre-select that change reason.



### 5.5.1.3 Identifying Change Reasons NOT for Use in RDC Onsite

RDC Onsite data entry uses the same change reason reference codelists that are referenced by Oracle Clinical data entry. To mark any change reason that should not be used in RDC Onsite, specify NOTRDC in the Long Value field for the appropriate change reason entry. [Figure 5–2](#).

Note that the NOTRDC setting applies only to RDC Onsite. Specifying NOTRDC for a change reason does not affect the use of the change reason in Oracle Clinical data entry or in pre-4.5.3 versions of RDC data entry.

**Figure 5–2 DATA CHANGE REASON TYPE CODE Codelist**

Enter NOTRDC in Long Value field to define reason as available in Oracle Clinical only

Select one reason as the default change reason

Seq	Short Value	Long Value	Active	Default	Description
1	DATA ENTRY E		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Data Entry Error
4	BATCH		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Batch
5	CRA CORR		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CRA Correction
6	CRA CORR-INV		<input checked="" type="checkbox"/>	<input type="checkbox"/>	CRA Correction, Inv consulted
7	CRA CORR-SR	NOTRDC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CRA Correction, Src Data consult

Exit Save

### 5.5.2 Suppressing the Reason for Change Dialog Box

As described earlier in [Section 5.5, "Defining the List of Allowable Change Reasons,"](#) RDC Onsite requires users to specify a change reason whenever they update data in a CRF previously saved as complete. As soon as the user updates a field and navigates away from it (by tab or mouse click), RDC Onsite displays the Reason for Change dialog box. The user must select one of your pre-defined reasons from the list.

The default behavior requires RDC Onsite to prompt for a change reason. You can, however, choose to suppress the Reason for Change dialog box and not require the user to enter a change reason.

**To suppress the Reason for Change dialog box:**

1. Open Oracle Clinical.
2. Navigate to **Admin, Reference Codelists**, and then select **Local Codelists**.
3. Query for the OCL\_DE\_CONFIG reference local codelist.
  - a. Enter **OCL\_DE\_CONFIG** in the Name field.
  - b. Press **F8** to execute the query.
4. Scroll to the COMMCHGREAS\_REQ short value.
5. Set the long value to **N** to suppress the change reason prompt.
6. Save your changes.

The default value is **Y**, which causes RDC Onsite to require a change reason for an update to the CRF when the CRF has previously been saved complete.

## 5.6 Setting the Format of Dates

You use the Data Entry Preferences form in Oracle Clinical to specify the display and input formats for date fields in RDC Onsite. [Table 5–4](#) describes the date preferences that you can set.

The Data Entry Preferences form is available at the database level and at the user level. The database-level preferences for date formats are in effect unless you override that specification at the user level. In addition, if the Preferences link is enabled in RDC Onsite, the user can override the values for these options.

---



---

**Note:** Oracle Clinical and pre-4.5.3 versions of RDC data entry use all the preference settings in the Data Entry Preferences form. However, RDC Onsite uses only the Data Entry Display Format and the Data Entry Input Format preference settings.

---



---

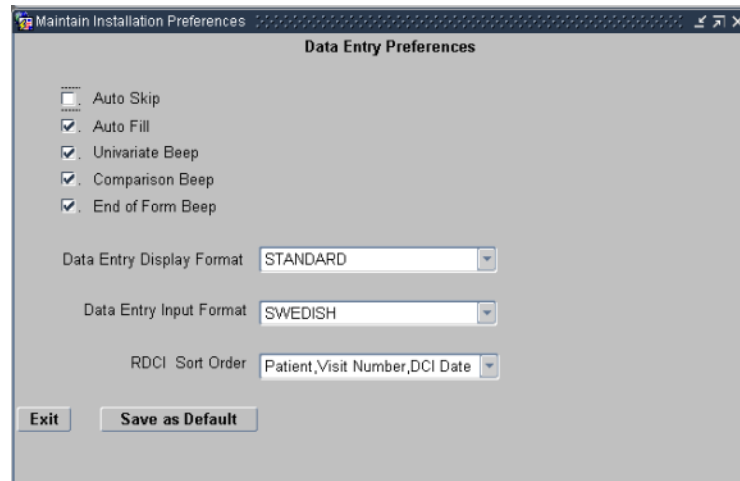
**Table 5–4 Data Entry Preferences**

Preference	Description	Format
Data Entry Display Format	For DCI and DCM dates and data entry format, the Data Entry Display Format setting determines the format to use for displaying dates. The data entry display format must either be <b>Standard</b> or must match the input format.  You can suppress the day and/or month portion of the data depending on how the question is defined. The display is controlled by the Date Time Format of the DCM question on which it is based. The valid Date Time Formats for a date field are as follows: <ul style="list-style-type: none"> <li>■ DMY (day, month, and year are displayed)</li> <li>■ MY (only month and year are displayed)</li> <li>■ Y (only year is displayed)</li> </ul>	US (mm-dd-yyyy); default EUROPEAN (dd-mm-yyyy) SWEDISH (yyyy-mm-dd) STANDARD (dd-mon-yyyy)
Data Entry Input Format	For DCI and DCM dates and data entry fields of type date, the Data Entry Input Format setting determines how date formats are applied to interpreting data that is input to the field. Must be the same as the Data Entry Display Format setting, unless the display format is set to <b>STANDARD</b> . The standard format is always accepted.	US (mm-dd-yyyy); default EUROPEAN (dd-mm-yyyy) SWEDISH (yyyy-mm-dd)

## 5.6.1 Setting Date Formats at the Database Level

To modify date preferences at the local database level:

1. Open Oracle Clinical.
2. Navigate to **Admin, DE Admin**, and then select **DE User Prefs**.
3. Set your preferences for the Data Entry Display Format and the Data Entry Input Format.
4. Click **Save as Default** to save your changes.



## 5.6.2 Setting Date Formats for Individual Users

To modify the date preferences for an individual user:

1. Open Oracle Clinical.
2. Navigate to **Admin, Users and Roles**, and then select **Oracle Accounts**.
3. Press **F7** to open the query screen.
4. Enter name of user or enter an account name.
5. Press **F8** to display all users that match your specified search criteria. Navigate to the applicable user.
6. Open the **Special** menu, and then select **DE Prefs**.

Users can also override the display and entry format by clicking the Preferences link in RDC Onsite. This method permanently changes the preference for the user and has the same effect as setting it through Oracle Accounts.

You can customize the RDC Onsite application to not display the Preferences link. See [Section 3.3.2, "Hiding the Preferences Links"](#) for more information.



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## Customizing RDC Onsite on the Application Server

This chapter describes ways to customize RDC Onsite by editing files available on the RDC Onsite application server.

This chapter includes the following topics:

- [Setting Up the Application for HTTPS](#)
- [Creating a Launch Page for RDC Onsite](#)
- [Customizing the Reset Password Link](#)
- [Customizing the Co-brand Logo](#)
- [Customizing the Contact Us Link](#)
- [Customizing the Change Password Link](#)
- [Customizing the Electronic Signature \(Approval\) Warning Message](#)
- [Setting the User Session Timeout Value](#)
- [Setting the Maximum Number of Rows Fetched](#)
- [Storing Custom Web Pages](#)
- [Storing the DCIF Images](#)
- [Setting the Keep Alive Timeout](#)

## 6.1 Setting Up the Application for HTTPS

To set up RDC Onsite for HTTPS, review the following document on My Oracle Support (MetaLink):

**Document Name:** *Configuring HTTP Server to use SSL in Oracle Application Server 10g*

**MetaLink Document ID:** 341904.1

**Purpose:** To list the steps needed to configure Oracle HTTP Server (OHS) to use the Secure Sockets Layer (SSL) when installed with Oracle Application Server 10g (Release 2 and Release 3).

## 6.2 Creating a Launch Page for RDC Onsite

You can provide a launch page for RDC Onsite, or you may have an existing Home page for your users where you would like to provide access to RDC Onsite.

The process of creating a launch page for RDC Onsite involves the following steps:

- [Setting Up A Link to Launch RDC Onsite](#)
- [Customizing the RDC Onsite URL](#)

### 6.2.1 Setting Up A Link to Launch RDC Onsite

You can add a link to a web page to start RDC Onsite in a separate browser window.

You can use the sample JavaScript and HTML to create a launch button or link that:

- Opens RDC Onsite in a new browser window
- Opens RDC Onsite without a toolbar or a menubar
- Prevents a user from opening more than one RDC Onsite session from the same parent launch page

---

---

**Note:** Oracle strongly encourages you to adapt the scripts for your use. Using the browser's **Back** button in RDC Onsite can cause problems in the application. By suppressing the browser toolbar, you make this button unavailable. In addition, problems can result if a user opens more than one RDC Onsite session to the same application server or from the same parent window. The sample JavaScript listed in [Section 6.2.1.1](#) provides a link (or button) that takes no action if a session is already open.

---

---

### 6.2.1.1 Sample JavaScript for Creating a Link to RDC Onsite

```
<script language="JavaScript">
    var _windowHandle = null;
    var _windowStyle = 'menubar=0,
toolbar=0,location=0,directories=0,status=0,menubar=0,
scrollbars=1,resizable=1,copyhistory=0';
    var _windowName = 'RDCOnsite';
    function launchOnsite(url) {
        var urlToOpen;
        if (url.indexOf('?') < 0) {
            urlToOpen = url + '?r=' + Math.random();    //This will ensure that
page is current, not from browser cache
        } else {
            urlToOpen = url + '&r=' + Math.random();
        }
        try {
            if (_windowHandle && _windowHandle.open) {
                _windowHandle.focus();
            } else {
                _windowHandle = window.open(urlToOpen, _windowName, _
windowStyle);
            }
        } catch (e) {
            _windowHandle = window.open(urlToOpen, _windowName, _windowStyle);
        }
    }
</script>
```

### 6.2.1.2 Sample HTML for Creating a Button or Link to RDC Onsite

The following sample HTML code creates either a RDC Onsite button or link with functionality governed by the JavaScript in [Section 6.2.1.1](#).

In these examples, *URL* refers to the URL or web address of your application server (for example, <https://mycompany.com>).

#### Sample HTML for Creating a Button

```
<input type="button" value="RDC Onsite 1"
onClick="launchOnsite('<URL>/olsa/oc/rdcLogin.do')"/>
```

#### Sample HTML for Creating a Link

```
<a href="JavaScript:launchOnsite('<URL>/olsa/oc/rdcLogin.do')"/>
RDC Onsite 1</a>
```

## 6.2.2 Customizing the RDC Onsite URL

You can add optional parameters to the RDC Onsite URL to change the behavior at run time. The format of the URL is as follows:

```
http://server-domain.com/olsa/oc/rdcLogin.do?event=doSetup
&param1=value1&param2=value2&param3=value3&d
```

[Table 6–1](#) describes the parameters that you can use in the URL.

**Table 6–1 RDC Onsite URL Parameters**

Parameter	Description	Example
db	<p>Specifies the database to connect to for RDC Onsite. If not specified, the application connects to the default database.</p> <p>Note: The database being specified here should be added to the configuration.</p> <p>Use this parameter to connect to a database that is not set up as the default. See <a href="#">Appendix A, "Database Connections"</a> for information on specifying the default database and ensuring that your application server can access any database you specify with this parameter.</p>	db=mydb
debug	<p>Specifies whether to enable debugging and logging.</p> <p><b>all</b> — Debugs all modules.</p> <p><b>surround</b> — Debugs only the RDC Onsite application pages.</p> <p><b>de</b> — Debugs only the Data Entry window.</p> <p>Oracle Support may ask you to use this parameter to diagnose issues. See <a href="#">Chapter 14, "Collecting Debug Data"</a> for more information.</p>	debug=all
deparams	<p>Oracle Support may ask you to use this parameter to diagnose possible performance issues by profiling HTML requests and responses using a value of <b>profile</b>. The value <b>xhrd</b> is reserved for possible tuning purposes.</p>	To be provided by Oracle Support
display_descpId	<p>Specifies whether RDC Onsite displays the discrepancy identifier in an additional column on the Review Discrepancies page and in the Discrepancy Details window. See <a href="#">Chapter 14, "Collecting Debug Data"</a> for more information.</p>	display_descpId=Y
display_docnum	<p>Specifies whether RDC Onsite displays the document (CRF) number in an additional column:</p> <ul style="list-style-type: none"> <li>■ On the Review CRFs page</li> <li>■ On the Review Discrepancies page</li> <li>■ In the Discrepancy Details window</li> <li>■ On the Review Investigator comments page</li> </ul> <p>See <a href="#">Chapter 14, "Collecting Debug Data"</a> for more information.</p>	display_docnum=Y
mode	<p>Specifies the mode in which the RDC Onsite application runs.</p> <p><b>T</b> — Runs in test mode.</p> <p><b>P</b> — Runs in production mode. Production mode is the default, if not specified.</p>	mode=T
sqlTrace	<p>Specifies whether to enable SQL tracing.</p> <ul style="list-style-type: none"> <li>■ <b>1</b> — Enables SQL tracing.</li> <li>■ Any other value — Disables SQL tracing.</li> </ul> <p>Oracle Support may ask you to use this parameter to diagnose possible SQL issues. See <a href="#">Chapter 14, "Collecting Debug Data"</a> for more information.</p>	sqlTrace=1



## 6.3 Customizing the Reset Password Link

By default, the Login page for the RDC Onsite application does not include the Reset Password link.

You can:

- Choose to show the Reset Password link on the Login page
- Specify a URL for your own reset password page or use the **RDC Onsite Reset Password** utility

### 6.3.1 Requirements for Using the RDC Onsite Password Utility

The **RDC Onsite Reset Password** utility uses functionality in the Oracle Thesaurus Management System (TMS). Therefore, to make use of the reset password utility:

- TMS 4.6 must be installed, either on the RDC Onsite application server or on another accessible server.
- The TMS user IDs must match the RDC Onsite user IDs.
- E-mail addresses for all RDC Onsite users must be specified in TMS using the TMS user interface. If users click the Reset Password link and their user IDs and e-mail addresses are not specified in TMS, the process fails and RDC Onsite displays an error message.

For more information on creating user IDs and specifying e-mail addresses in TMS, see the *Oracle Thesaurus Management System User's Guide*.

### 6.3.2 Resetting versus Changing Passwords

If a user attempts to log in to RDC Onsite with a valid but expired password, RDC Onsite redirects the user to the Change Password page. The password can be changed strictly through the user interface, without e-mail or involvement of TMS.

See [Section 6.6.1, "Changing the URL and the Name for the Change Password Link"](#) for more information.

### 6.3.3 Configuring the Reset Password Link

You use the `RdcLogos.properties` file to change the default settings for the Reset Password link.

**To configure the Reset Password link:**

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:
 

```
ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc
\rdconsite\WEB-INF\classes\oracle\pharma\rdc\view
```
4. Open the **RdcLogos.properties** file with a text editor.
5. Find the following line in the file and set the value to true to display the Reset Password link on the Login page:

```
image.ResetPasswordUrlRendered=true
```

6. Specify the Reset Password page that displays when the user clicks the Reset Password link. You can specify your custom Reset Password page or you can use the RDC Onsite Reset Password page.
  - To specify your custom page, find the following line in the file and set the value to the URL for your Reset Password page:
 

```
image.ResetPasswordUrl=Custom_URL
```
  - To use the RDC Onsite Reset Password page:
    - a. Make sure the following line is **not** set to a value:
 

```
image.ResetPasswordUrl=
```
    - b. Set the name of the SMTP host in the following line:
 

```
resetPassword.email.smtp.host=
```
    - c. Specify the From e-mail address in the following line. The password notification e-mail sent to the user shows this value as the From address. For example: *administrator@yourcompany.com*.
 

```
resetPassword.email.from=
```
    - d. Check if your SMTP server requires a user name and password. If it does, enter the values in the following lines:
 

```
resetPassword.email.username=
resetPassword.email.password=
```

Oracle uses these values to send the password reset e-mail notification. Some SMTP servers require authentication before sending e-mail using that server.
7. Save your changes.
8. Restart the `rdc OC4J` instance.

## 6.4 Customizing the Co-brand Logo

In the RDC Onsite application, the page header displays the Oracle logo in the upper left corner. You can customize the application to include your co-brand logo or image in the upper right corner of the page header.



**To include a company or a co-brand logo on the RDC Onsite application pages:**

1. Stop the `rdc OC4J` instance.
2. Log in to the RDC Onsite application server.
3. Create a GIF image file of your co-brand logo.
4. Copy your GIF image file to the following directory:
 

```
ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc
\rdconsite\images
```

5. Navigate to the following directory:  
`ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\rdconsite\WEB-INF\classes\oracle\pharma\rdc\view`
6. Open the **RdcLogos.properties** file with a text editor.
7. Find the following two lines in the file:  
`image.CoBranding=images/co_brand.jpg`  
`image.CoBrandingRendered=false`
8. Make the following changes:
  - a. Replace the `co_brand.jpg` file name with the name of the file you placed in the images directory.
  - b. Set `image.CoBrandingRendered=true`.
9. Save your changes.
10. Restart the **rdc OC4J** instance.

## 6.5 Customizing the Contact Us Link

By default, the Contact Us link does not display in the page header and footer of the RDC Onsite application pages, along with the other global links.

By default, the RDC Onsite application does not display the **Contact Us** link in the page header and the page footer.

You can indicate whether you want the **Contact Us** icon to appear, and if so, its target URL.

**To customize the Contact Us link:**

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:  
`ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\rdconsite\WEB-INF\classes\oracle\pharma\rdc\view`
4. Open the **RdcLogos.properties** file with a text editor.
5. Find the following two lines in the file:  
`image.ContactUsUrl=https://metalink.oracle.com/`  
`image.ContactUsUrlRendered=false`
6. Make the following changes:
  - a. Replace the `metalink.oracle.com` web address with the URL of the web page that you want users to access when they click the Contact Us link.
  - b. Set `image.ContactUsUrlRendered=true` to display the Contact Us link in the RDC Onsite application.
7. Save your changes.
8. Restart the **rdc OC4J** instance.

## 6.6 Customizing the Change Password Link

By default, the Change Password link appears in the page header and the page footer of the RDC Onsite application pages, along with the other global links. You can customize this link to point to your own change password page by editing the **RdcTexts.properties** file.

In addition, using SQL commands, you can customize password profiles that affect whether the Change Password page is invoked automatically during the grace period or after the password has already expired.

Your options for customizing the Change Password link include:

- [Changing the URL and the Name for the Change Password Link](#)
- [Enforcing Profile Limits for the Change Password Page](#)

### 6.6.1 Changing the URL and the Name for the Change Password Link

By changing the URL, you can customize the page that your users see when they click the Change Password link.

You can also change the name of the Change Password link. You cannot, however, hide the link. The Change Password link always displays in the RDC Onsite application.

**To customize the URL and name for the Change Password link:**

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:  
`ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\rdconsite\WEB-INF\classes\oracle\pharma\rdc\view\nls`
4. Open the **RdcTexts.properties** file with a text editor.
5. Find the following text string and specify your custom URL:  
`url.ChangePassword=rdcUserPreferences.do?pagetype=`
6. Find the following text string and enter the text for the name of the Change Password link:  
`button.ChangePassword=`
7. Save your changes.
8. Restart the **rdc OC4J** instance.

### 6.6.2 Enforcing Profile Limits for the Change Password Page

Passwords have a lifetime and a grace period defined by database profiles. You can set an expiration date for passwords. Accordingly, RDC Onsite prompts users to change their password as the expiration date approaches.

Users have a grace period in which to change their password. If they log in during the grace period, RDC Onsite displays a warning message that their password will expire soon and automatically redirects them to the Change Password page. Users can choose to change their password now or wait until later. RDC Onsite lets users log in.

If users do not change their password during the grace period, the password will expire. However, the opportunity to change the password still exists. If users attempt

to log in with an expired password, RDC Onsite automatically redirects them to the Reset Expired Password page. In this case, users cannot continue until they successfully change their password. Users must then log in with their new password.

To ensure that the profile limits are enforced, use the following SQL command to assign a profile to a user:

```
ALTER USER user_name PROFILE profile_name
```

## 6.7 Customizing the Electronic Signature (Approval) Warning Message

Whenever a user approves a CRF or a group of CRFs in RDC Onsite, the approval represents an electronic signature provided in accordance with FDA 21 CFR Part 11.

Every time the user approves a CRF or undoes the approval for a CRF, RDC Onsite issues a standard warning message. You can customize this message.

Users can select options in the Data Entry window or options on the application pages to approval CRFs. Therefore, if you decide to customize the approval warning message, make sure you change the message for both locations in the user interface.

### 6.7.1 Customizing the Approval Warning Messages for the Data Entry Window

To customize the approval warning messages for the Data Entry window:

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:
 

```
ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc
\rdconsite\WEB-INF\classes\oracle\pharma\rdc\de\resource\properties
```
4. Open the **de\_external.properties** file with a text editor.
5. Modify the Approval warning message:
  - a. Find the following text string:
 

```
de.dcs.approve.signoff=
```
  - b. Change the text following the equal symbol (=) to the message that displays when the user approves a CRF from the Data Entry window. The default text is:
 

```
de.dcs.approve.signoff=IMPORTANT By approving this CRF
page, you confirm that all data on the page is complete
and correct. This approval is equivalent to an electronic
signature.
```
6. Modify the Undo Approval warning message:
  - a. Find the following text string:
 

```
de.dcs.unapprove.signoff=
```
  - b. Change the text following the equal symbol (=) to the message that displays when the user undoes the approval from the Data Entry window. The default text is:
 

```
de.dcs.unapprove.signoff=IMPORTANT By undoing approval,
you are rescinding the electronic signature on this page.
```
7. Save your changes.

8. Restart the **rdc OC4J** instance.

## 6.7.2 Customizing the Approval Warning Messages for the Application Pages

To customize the approval warning messages for the application pages:

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:  
`ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\rdconsite\WEB-INF\classes\oracle\pharma\rdc\view\nls`
4. Open the **RdcTexts.properties** file with a text editor.
5. Modify the Approval warning message:
  - a. Find the following text string:  
`prompt.ApproveCrfWarning2=`
  - b. Change the text following the equal sign (=) to the message that displays when the user approves a CRF from an application page. The default text is:  
`prompt.ApproveCrfWarning2=By approving this group of CRFs, you confirm that all data are complete and correct. Each approval is equivalent to an electronic signature.`
6. Modify the Undo Approval warning message:
  - a. Find the following text string:  
`prompt.UnApproveCrfWarning2=`
  - b. Change the text following the equal sign (=) to the message that displays when the user undoes the approval from an application page. The default text is:  
`prompt.UnApproveCrfWarning2=By undoing the approval of this group of CRFs, you revoke prior certification that the data was complete and correct. Each un-approval is equivalent to removal of an electronic signature.`
7. Save your changes.
8. Restart the **rdc OC4J** instance.

## 6.7.3 Other Options for Customizing Approvals

In addition to customizing the approval warning messages, you can:

- Disable approval from RDC Onsite. See [Section 3.3.4, "Allowing Group Verifications and Approvals"](#) for more information.
- Set a timeout value for pre-population of user name for approvals. See [Section 7.2, "Configuring a Timer Period for Subsequent Electronic Signatures"](#) for more information.

## 6.8 Setting the User Session Timeout Value

A session begins when a user successfully logs in to RDC Onsite. The session ends either when the user logs out or when RDC Onsite times out due to inactivity.

By default, RDC Onsite times out after 30 minutes of inactivity. However, you can change the timeout interval to another value. If a user remains inactive in a session for the specified period of time, RDC Onsite automatically times out and logs the user out of the application.

The automatic timeout provides added security to unauthorized use of the application. If a timeout occurs, RDC Onsite prompts the user to log in again.

### 6.8.1 Recommendations for Setting the Session Timeout Value

Oracle recommends that you do not set the user session timeout to more than 40 minutes unless you first consult the following white paper on My Oracle Support (MetaLink):

**Document Name:** *Configuring Oracle Clinical RDC 4.6 for Performance and Scalability*

**MetaLink Document ID:** 873743.1

When determining whether to increase the session timeout to more than 40 minutes, you must consider the following issues:

- High timeout values *may* negatively affect performance and scalability because memory usage increases as the timeout value increases. Specifically, when a session times out, the system cleans out all resources assigned to the user. Increasing the timeout value means the system continues to use resources for a longer time. However, if the number of concurrent users accessing the system is low (that is, 25–50), you may not notice that resources are used for a longer time, and therefore, you may not experience any resource problems. Furthermore, if you have correctly configured your server for the number of users accessing the system, you should not experience any problems with memory or CPU resources.
- The value for the **jbo.ampool.maxinactiveage** setting in the bc4j.xcfg file must be set higher than the session timeout. The default value for this setting is 60 minutes. Therefore, you must also edit the **jbo.ampool.maxinactive.age** setting if you set the session timeout to more than 59 minutes.

### 6.8.2 Changing the Session Timeout Value

To change the timeout interval for an RDC Onsite session:

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:  
`ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\rdconsite\WEB-INF`
4. Open the **web.xml** file with a text editor.
5. Find the following lines in the file:  

```
<session-config>
  <session-timeout>30</session-timeout>
</session-config>
```
6. Change the session timeout value. The default value is **30** minutes.

7. Save your changes.
8. Restart the **rdc OC4J** instance.

## 6.9 Setting the Maximum Number of Rows Fetched

By default, RDC Onsite retrieves a maximum of 1000 rows of data (records) whenever you open the Home page or execute a search.

You can change the default value by adding the **Max\_rows\_fetched** parameter to the **web.xml** file. You specify the maximum number of rows that RDC Onsite can retrieve from the database at a time. When you execute a search, RDC Onsite issues a warning message to adjust the search criteria if your query would retrieve more rows than the maximum number allowed.

**To change the maximum number of rows fetched:**

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:  
`ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\rdconsite\WEB-INF`
4. Open the **web.xml** file with a text editor.
5. Insert the following lines into the file:

```
<context-param>
  <param-name>Max_rows_fetched</param-name>
  <param-value>1000</param-value>
</context-param>
```

Make sure the XML syntax is preserved when you insert these lines.

6. Change the maximum number of rows fetched. The default value is **1000**.
7. Save your changes.
8. Restart the **rdc OC4J** instance.

## 6.10 Storing Custom Web Pages

The installation process for RDC Onsite creates the following directory:

```
ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\rdconsite\custompages
```

Use this directory to save the custom web pages that you create for CRF online help and for the Links section on the Home page.

For information on creating and maintaining links, see [Chapter 10, "Configuring Links."](#)



## 6.11 Storing the DCIF Images

Form designers can embed logos or other images in their forms.

To enable image viewing on CRFs during data entry in RDC Onsite, you can choose either to set up a central repository or to copy images to all RDC Onsite installations. For information on enabling image viewing, see the *Oracle Clinical Administrator's Guide*.

## 6.12 Setting the Keep Alive Timeout

To insure that RDC Onsite functions properly, you need to modify the **Keep Alive Timeout** setting to 0 (zero) seconds.

---

---

**Note:** Runtime error 12152 can indicate that the Keep Alive Timeout setting is incorrect.

---

---

**To modify the Keep Alive Timeout setting:**

1. Log in to the Oracle Enterprise Manager 10G Application Server Control.
2. Select the appropriate application server instance.
3. Open the Application Server Control page.
4. Scroll down the **System Components** table and click the **Web Cache** component.
5. Click the **Administration** tab. Make the following change:
  - a. In the Properties/WebCache section, click the **Resource Limits and Timeouts** link.
  - b. In the Timeouts section, change the **Keep Alive Timeout (seconds)** to **0**.
6. Click **OK** to apply your changes. Wait until the system refreshes the page and displays a confirmation message dialog box. Your changes will not take effect until you restart the cache.
7. Click **Restart Web Cache** and make sure the web cache is successfully restarted.



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## Working with the RDC Client Package

The RDC Client package contains PL\*SQL procedures that you can modify to customize various aspects of how the RDC Onsite application behaves. For example, you can customize document numbers, set how often RDC Onsite requests user names and password for approvals, and customize bookmark labels for a Patient Data Report.

To make these custom changes, you only need to modify the procedures in the RDC package body for the client:

```
rdcpb_client.sql
```

---

---

**Note:** Do not modify the RDC package specification for the client (`rdcps_client.sql`).

---

---

This chapter includes the following topics:

- [Deriving Company-Specific Document Numbers](#)
- [Configuring a Timer Period for Subsequent Electronic Signatures](#)
- [Configuring the DCI Bookmark Label for the Patient Data Report](#)
- [Configuring the DCM Bookmark Label for the Patient Data Report](#)
- [Configuring the Visit Bookmark Label for the Patient Data Report](#)

## 7.1 Deriving Company-Specific Document Numbers

<b>Function Name:</b>	DeriveDocumentNumber
<b>Purpose:</b>	<p>Derives an identification number from the key fields of the document. Modify the code according to your business rules. For example, you may want to make the site number part of the document number.</p> <p>The DeriveDocumentNumber function serves the same purpose as the DeriveDocumentNumber function in the Oracle Clinical package. If you customized code for the Oracle Clinical package, you can copy and paste that code into the RDC Client package.</p>
<b>Parameters:</b>	<p><code>study</code> (in varchar2) — Denotes the name of the study.</p> <p><code>clinical_study_id</code> (in number) — Denotes the ID number of the study.</p> <p><code>patient</code> (in varchar2) — Denotes the code name (external identifier) of the patient.</p> <p><code>patient_position_id</code> (in number) — Denotes the position number of the patient.</p> <p><code>investigator</code> (in varchar2) — Denotes the code name of the investigator.</p> <p><code>investigator_id</code> (in number) — Denotes the ID number of the investigator.</p> <p><code>site</code> (in varchar2) — Denotes the code name of the site.</p> <p><code>site_id</code> (in number) — Denotes the ID number of the site.</p> <p><code>DCI</code> (in varchar2) — Denotes the name of the <a href="#">data collection instrument (DCI)</a>.</p> <p><code>dci_id</code> (in number) — Denotes the ID number of the DCI.</p> <p><code>event</code> (in varchar2) — Denotes the name of the clinical planned event.</p> <p><code>clin_plan_eve_id</code> (in number) — Denotes the ID number of the clinical planned event.</p> <p><code>subevent</code> (in number) — Denotes the ID number of a subtype of the planned event.</p> <p><code>rxc_env_type</code> (in varchar2) — Denotes the environment type, where T indicates Test mode and P indicates Production mode.</p>
<b>Return Value:</b>	Returns the ID number as a varchar2. The default is a system-generated sequence number.
<b>Default Logic:</b>	Returns "R" concatenated to the next value from sequence Received_dci_seq2.

## 7.2 Configuring a Timer Period for Subsequent Electronic Signatures

**Function Name:** `htmlde_timeout_mins`

**Purpose:** Sets the time period in minutes for when users performing approvals in RDC Onsite will need to re-enter their user name.

The first time a user attempts to approve a CRF in a session, RDC Onsite prompts for both a user name and a password. After the first approval, the defined time period starts. During the time period, the user can approve many CRFs. For these subsequent approvals, RDC Onsite prompts only for a password.

When the time period expires, RDC Onsite again prompts for both a user name and a password before approving the CRF. The time period then restarts. The user only needs to enter a password on subsequent approvals until the time period expires.

**Parameters:** None.

**Return Value:** Returns an integer that specifies the number of minutes for the time period.

**Default Logic:** 10 (that is, 10 minutes).

## 7.3 Configuring the DCI Bookmark Label for the Patient Data Report

**Function Name:** `get_dci_label`

**Purpose:** Lets you customize the label used for a DCI in the bookmark of the Patient Data Report.

By default, this function returns the name of the DCI. You may want to customize this function to return the short name or to use the unique `dci_id` to retrieve a label from another table or system.

**Parameters:** `pDciId` — Denotes the ID of the DCI.

**Return Value:** Returns the text that is displayed for a DCI in the bookmark of the Patient Data Report.

**Default Logic:** Returns the name of a DCI.

**Related Functions:** `get_dcm_label`  
`get_visit_label`

## 7.4 Configuring the DCM Bookmark Label for the Patient Data Report

<b>Function Name:</b>	get_dcm_label
<b>Purpose:</b>	Lets you customize the label used for a DCM in the bookmark of the Patient Data Report. RDC Onsite calls this function only if the local database setting for the data domain is set to DCM.  By default, this function returns the name of the DCM. You may want to customize this function to return the description or to use the unique combination of dcm_id, dcm_subset_sn, dcm_layout_sn, and qualifying_value to retrieve a label from another table or system.
<b>Parameters:</b>	pDcmId — Denotes the ID of the DCM. pDcmSubset — Denotes the subset number of the DCM. pDcmLayout — Denotes the layout number of the DCM. pDcmQualVal — Denotes the qualifying value of the DCM.
<b>Return Value:</b>	Returns the text that is displayed for a DCM in the bookmark of the Patient Data Report.
<b>Default Logic:</b>	Returns the name of a DCM.
<b>Related Functions:</b>	get_dci_label get_visit_label

## 7.5 Configuring the Visit Bookmark Label for the Patient Data Report

<b>Function Name:</b>	get_visit_label
<b>Purpose:</b>	Lets you customize the label used for a visit in the bookmark of the Patient Data Report.  By default, this function returns the name of the visit (that is, the clinical planned event). You may want to customize this function to return the description, to return the phase, or to use the unique clin_planned_event_id to retrieve a label from another table or system.
<b>Parameters:</b>	pClinPlanEveId — Denotes the ID of the clinical planned event. pSubEventNo — Denotes the subevent number.
<b>Return Value:</b>	Returns the text that is displayed for a visit in the bookmark of the Patient Data Report.
<b>Default Logic:</b>	Returns the name of a visit.
<b>Related Functions:</b>	get_dci_label get_dcm_label

---

---

## Configuring News

**News** items are messages that the study sponsor wants to communicate to all, some, or one of its RDC Onsite users. For example, the news might be about study protocol, upcoming deadlines, daily reminders, or weekly status.

To define the news items, you use the News Definition for Remote Data Capture form in the RDC Administration application. You can customize the news information according to the current study, site, user, role, or date.

Any user with RDC administrator privileges can customize news content. In addition, you can grant a user the privilege to define news content, but not perform other administrator tasks. Granting others this privilege makes it easy to update daily and site-specific news.

This chapter includes the following topics:

- [About the News Section in RDC Onsite](#)
- [Creating User Roles that Can Define News Items Only](#)
- [Creating and Modifying News Items](#)
- [Querying News Definitions](#)

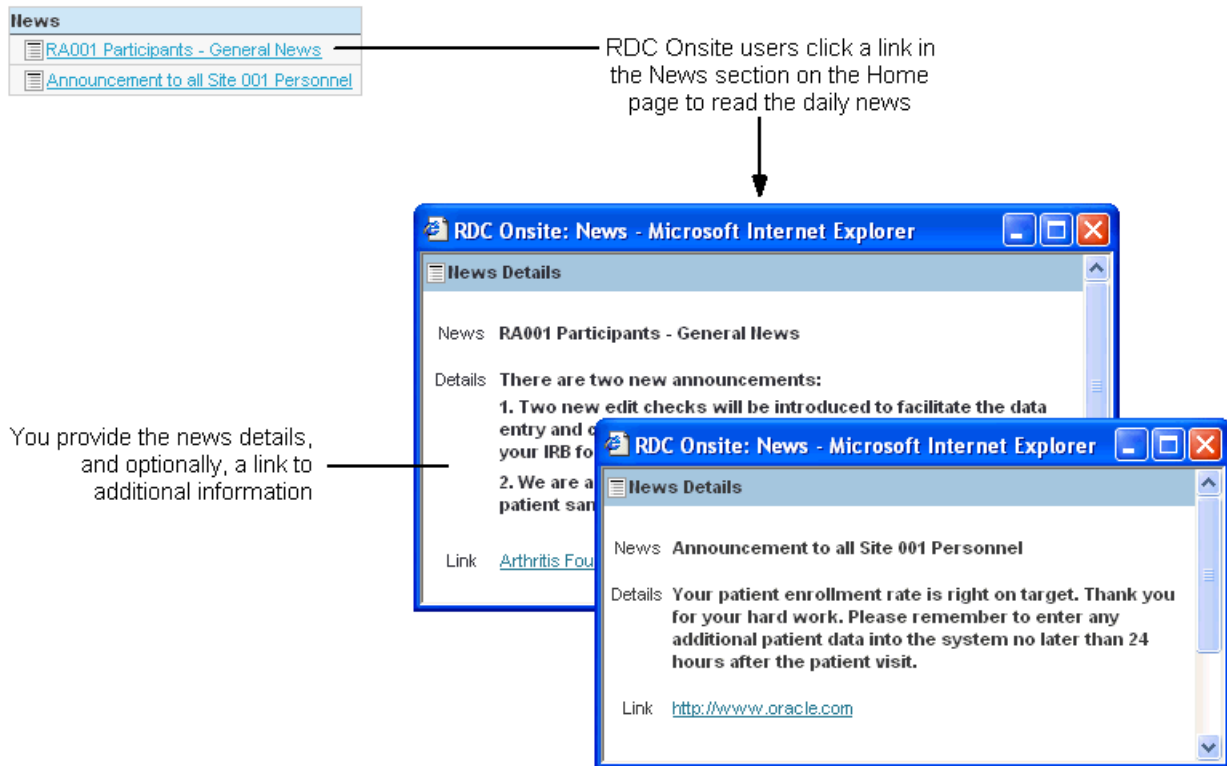
## 8.1 About the News Section in RDC Onsite

RDC Onsite displays news items as links in the News section on the Home page. Your users see the news headlines as soon as they log in to the RDC Onsite application.

RDC Onsite supports an unlimited number of news items. [Figure 8-1](#) illustrates two links in the News section along with the details that display when the user clicks the link. Note that each news item can include a URL that links to additional information.

You define the headline text, the detailed message, and the optional URL. When defining the news details, you can use substitution parameters to create messages with personalized greetings and changing dates.

**Figure 8-1** Reading the Daily News in RDC Onsite





## 8.2 Creating User Roles that Can Define News Items Only

By default, any user with one of the following roles can perform all RDC administrative tasks, including the task of defining news items:

- RXC\_ADMIN
- RXC\_SUPER
- RXC\_SUPER\_NOGL
- RXC\_DES
- RXC\_DMGR

You can also create a different set of roles with limited administrator privileges. For example, you can grant a user the privilege to define news content only. Granting others this one privilege makes it easy to update daily and site-specific news.

Note that the process you use to create the user roles that have privileges to define news content is different from the process for creating the user roles for other administrative privileges. Therefore, you can identify user roles for defining news content that are different from the roles for performing other administrative tasks.

**To create or modify the set of user roles that can define news items only:**

1. Log in to the Oracle Clinical database server.
2. Navigate to the Oracle Clinical INSTALL directory.
3. Open the `opapb_level_privs_m1.sql` file with a text editor.
4. Find the `admin_user` function.
  - Add the roles that you want to have privileges to define news items.
  - Delete any roles you do not want to have the ability to define news items.
5. Connect to SQL\*Plus.
6. Run the SQL script to process your changes:

```
SQL*Plus> START opapb_level_privs_m1.sql
```

---



---

**Note:** Oracle supports this modification, but you are responsible for re-applying any modification if a patch overrides the package.

---



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## 8.3 Creating and Modifying News Items

For each news item, you can:

- Define who sees the news item. You can determine who sees the news item based on a study, a site within the study, a user login name, or a user role.
- Set the dates for when to display the news item.
- Set the priority and sequence of the news item.
- Create a news headline. RDC Onsite displays the headline as a link in the News section on the Home page.

- Specify additional details about the news item. When the user clicks the headline link, RDC Onsite opens the News Details window, which displays the additional information you entered.
- Specify a link name (button label) and URL that RDC Onsite also displays in the News Details window.

### 8.3.1 Accessing the Form for Defining News Items

To access the form for defining news items:

1. Open the RDC Administration application.
2. Navigate to **RDC Admin, Maintain**, and then select **News**.

The system opens the News Definition for Remote Data Capture form. See [Figure 8-2](#).

[Table 8-1](#) describes the fields in the News Definition for Remote Data Capture form.

**Figure 8-2 News Definition for Remote Data Capture Form**

Study	Site	User	Role	From Date	To Date	Priority	Seq#
DE_STUDY	%	%	%	01-Apr-2002	01-Dec-2010	1	1
ORACLIN	%	OPS\$KH	%	15-Mar-2002	16-Mar-2002	1	1
ORACLIN2	001	%	%	01-Jan-2002	01-Jan-2003	1	1
ORACLIN2	S2	%	%	01-Jan-2002	01-Jan-2003	1	1
ORACLIN2	%	%	%	01-Jan-2002	01-Jan-2003	1	1
STUDY01	%	%	%	01-Jan-2000	01-Jan-2002	1	2
HANDSON	%	%	%	01-Jan-2000	01-Jan-2002	1	2
HANDSON	%	%	%	01-Jan-2000	31-Dec-2001	1	1
STUDY03	%	%	%	01-Jan-2000	01-Jan-2001	1	1
STUDY01	%	%	%	01-Jan-1999	01-Jan-2002	1	1

Title: Announcement to all Site 001 Personnel

News: Your patient enrollment rate is right on target. Thank you for your hard work. Please remember to enter any additional patient data into the system no later than 24 hours after the patient visit.

Button: Link      URL: http://www.oracle.com

Buttons: Exit, Save

**Table 8–1 Fields in the News Definition for Remote Data Capture Form**

Field Name	Description
Study	Specifies the name of the study for which you want to make the news item available. To specify all studies, enter % (percent sign).
Site	Specifies the name of the site for which you want to make the news item available. The site must be in the specified study.  To specify all sites in the specified study, enter % (percent sign). If you specify % in the Study field, then you must specify % in the Site field.
User	Specifies the user name to which you want to make the news item available. To specify all users, enter % (percent sign).
Role	Specifies the role to which you want to make the news item available. To specify all roles, enter % (percent sign).
From Date	Specifies the date (inclusive) to start displaying the news item.
To Date	Specifies the date (inclusive) to stop displaying the news item.
Priority	Defines the importance ranking for the news item. Priorities range from 1 (highest) to 9 (lowest).  Use the Priority field, along with the Seq# field, to order the display of the news items. See <a href="#">Section 8.3.2, "Priority and Sequence of News Items"</a> for more information.
Seq#	Defines the sequence, or placement, order of the displayed news items. The sequence value is either 1 or 2.  Use the Seq# field, along with the Priority field, to order the display of the news items. See <a href="#">Section 8.3.2, "Priority and Sequence of News Items"</a> for more information.
Title	Specifies the headline text of the news item. RDC Onsite uses this text in the following places: <ul style="list-style-type: none"> <li>■ For the link that displays in the News section on the Home page</li> <li>■ For the News title that displays in the News Details window</li> </ul> See <a href="#">Figure 8–1</a> for an example.
News	Provides the detail content of the news item. RDC Onsite displays this information in the News Details window.  You can specify one or more substitution parameters to customize and personalize news items. See <a href="#">Section 8.3.3, "Substitution Parameters for News Items"</a> for more information.
Button	Provides a text label for the link that RDC Onsite displays in the News Details window.
URL	Specifies the URL that RDC Onsite displays in the News Details window. Users can click the URL to link to additional information.

### 8.3.2 Priority and Sequence of News Items

RDC Onsite supports an unlimited number of news items.

The order in which each news item is processed is based on a hierarchy that determines which item takes precedence:

- Priority
- Seq#
- Records where % is specified in the User field are listed before records where the user is specified
- Records where % is specified in the Study field are listed before records where the user is specified
- Records where % is specified for the Site field are listed before records where the user is specified

### 8.3.3 Substitution Parameters for News Items

You can add substitution parameters to the News field in the News Definition for Remote Data Capture form.

These parameters track variable information such as time of day, system date, first names, and last names. You can use these parameters to customize news items. For example, you can create personalized greetings based on the time of day and the user's last name: *Good morning, Mr. Smith.*

[Table 8–2](#) lists the parameters that you can use when defining news text. For a sample of before and after text using these parameters, see [Example 8–1](#).

**Table 8–2 Substitution Parameters for News Items**

Parameter	Description	Possible Value	Sample Usage	Displayed As
\TIME OF DAY\	Time according to the Application Server clock	12 midnight to 12 noon	Good\TIME OF DAY\	Good morning
		less than 6 PM	Good\TIME OF DAY\	Good afternoon
		6 PM to 12 midnight	Good\TIME OF DAY\	Good evening
\SYSDATE\	System date of the Application Server	18-Dec-2010	Today is \SYSDATE\	Today is 18-Dec-2010
\DAYS TO dd-mmm-yyyy\	Calendar days, not inclusive	15	New study begins in \DAYS TO 1-Oct-2009\ days.	New study begins in 18 days.
\FIRST NAME\	User's given name, from Oracle Accounts form	John	Hello \FIRST NAME\	Hello John
\LAST NAME\	User's surname, from Oracle Accounts form	Doe	Welcome to Oracle, Mr. \LAST NAME\.	Welcome to Oracle, Mr. Doe.
\NAME\	Full name (first name, last name, with initial capital letter)	John Doe	Hello, Mr. \NAME\!	Hello, Mr John Doe!

**Example 8-1 Using the Substitution Parameters for News Items**

Suppose you enter the following text and parameters in the News field in the News Definition for Remote Data Capture form:

```
Good \TIME OF DAY\, \FIRST NAME\. Today is \SYSDATE\. Bonus program
for this quarter includes certificates for travel, entertainment, and electronics.
See our web site for details. You have \DAYS TO 31-DEC-2009\ days to earn
rewards. Good luck!
```

RDC Onsite processes the parameters, substitutes the appropriate text, and displays the following message in the News Details window:

Good afternoon, Jane. Today is 3-Dec-2009. Bonus program for this quarter includes certificates for travel, entertainment, and electronics. See our web site for details. You have 28 days to earn rewards. Good luck!

## 8.4 Querying News Definitions

In the RDC Administration application, you can also navigate to **Query** and then select **News** to access the News Definition for Remote Data Capture form in query mode. This option lets you access and view — but not add or modify — news items that are defined for studies in the database.



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## Customizing Activities

In RDC Onsite, the Home page displays an Activities section that presents the user with a list of customized tasks.

The Activities section provides a configured set of links that guide the user to certain tasks. The text of the activity and how the activity appears can be based on specific conditions, such as the presence of discrepancies.

This chapter includes the following topics:

- [Displaying the Activities List](#)
- [Default Activities for RDC Onsite](#)
- [Key Concepts for Activities](#)
- [Activities Database Tables](#)
- [Activity Tags and Functions Included with Oracle Clinical](#)
- [Creating and Maintaining Customized Activities](#)
- [Creating an Activity Tag Function](#)

## 9.1 Displaying the Activities List

RDC Onsite automatically displays the Activities section on the left side of the Home page. You do not need to configure any setting to display the Activities list.

Activities ▲
<a href="#">Review 2 Other Discrepancies</a>
<a href="#">Review 5 Active Discrepancies</a>
<a href="#">Review Investigator comments</a>
<a href="#">Review non-blank CRFs ready for initial verification</a>

## 9.2 Default Activities for RDC Onsite

Table 9–1 lists the default activities included in RDC Onsite.

**Table 9–1 Default Activities for RDC Onsite**

Title of the Activity Link Displayed on the Home Page	Clicking the Activities link...	Condition for Display
Review <i>n</i> Active Discrepancies	Opens the Review Discrepancies page <i>and</i>	If there is at least one active discrepancy in the site with an active discrepancy for the current user
Review <i>n</i> Other Discrepancies	Opens the Review Discrepancies page <i>and</i>	If there is at least one other discrepancy in the site with an other discrepancy for the current user
Review non-blank CRFs ready for initial verification	Opens the Review CRFs page <i>and</i>	If there is at least one CRF entered for a site
Review non-blank CRFs ready for initial approval	Opens the Review CRFs page <i>and</i>	If there is at least one CRF entered for a site
Review Investigator comments	Opens the Review Investigator Comments page <i>and</i>	If there is at least one Investigator Comment entered for a patient

## 9.3 Key Concepts for Activities

This section describes the following concepts for activities:

- [User Roles and Activities](#)
- [Types of Activities](#)
- [Scope of Activities](#)

### 9.3.1 User Roles and Activities

You can define an activity for a user role, a set of user roles, or all roles. If you specify one or more roles, the activity is applicable only to users with one of the specified roles. For example, if an activity list is set up for DM role, the activity list defined would come up for all users to whom the DM role is granted.



## 9.3.2 Types of Activities

Each activity is a pre-defined shortcut that RDC Onsite displays as a link. There are two types of activities:

- **Procedure** — A *procedure activity* executes the defined query, navigates to the appropriate RDC page, and displays only those patients/CRFs that meet your defined search criteria. You use this type of activity for procedure-based tasks.  
For RDC Classic, a procedure activity can also be a trigger activity that executes a specific Oracle Clinical function. Trigger activities apply to RDC Classic only.
- **URL** — A *URL activity* launches a browser instance, opens a new browser window, and automatically navigates to the web page associated with the URL you specified. You use this type of activity for URL-based tasks.

## 9.3.3 Scope of Activities

The meaning of activity scope varies depending on your version of the RDC application:

- For RDC Onsite, the *activity scope* determines the page navigation. You can define an activity to navigate to the Review CRFs page, the Review Discrepancies page, the Review Investigator Comments page, or a web page.  
In addition, RDC Onsite always processes a procedure activity for the current site. Therefore, the scope does not define whether the activity is applicable to a specific study, site, or patient.
- For RDC Classic, the *activity scope* determines where to display and how to restrict the activity. The scope also defines whether the activity is applicable to the study, site, or patient.

## 9.4 Activities Database Tables

To create and maintain activities list, you use the following database tables:

- The RDC\_ACTIVITIES database table, which contains the setup information for all the activities defined for the RDC application
- The RDC\_ACTIVITIES\_TAGS database table, which contains the tags that call the functions that provide values for a text string, a display expression, or a URL

The sections that follow provide more information about each table.

### 9.4.1 RDC\_ACTIVITIES Database Table

The Oracle Clinical RDC\_ACTIVITIES database table contains the setup information for all the activities defined for the RDC application. You can add new activities, modify existing activities, and delete activities.

Each record (that is, row) in the RDC\_ACTIVITIES database table defines the setup information for one activity. Note that the database table includes the default activities listed in [Table 9-2](#).

Each field (that is, column) defines the values for an activity. [Table 9-2](#) describes each column in the RDC\_ACTIVITIES database table.

**Table 9–2 RDC\_ACTIVITIES Database Table**

Column Name	Description	Type (Max Length)
USER_ROLE	<p>Specifies for which user roles RDC displays the activity. Each user logging in to RDC is associated with only one role. You can use the user role to control which activities RDC displays when the user logs in to the application.</p> <p>You can specify:</p> <ul style="list-style-type: none"> <li>■ One role</li> <li>■ Multiple roles (use a comma to separate roles)</li> <li>■ All roles (use the % wildcard character)</li> </ul> <p>For example, assume you define the following activities and user roles:</p> <ul style="list-style-type: none"> <li>■ Activity 1: USER_ROLE = %</li> <li>■ Activity 2: USER_ROLE = <b>DM</b></li> <li>■ Activity 3: USER_ROLE = <b>DM, CRA, SITE</b></li> </ul> <p>For this example, RDC displays:</p> <ul style="list-style-type: none"> <li>■ All three activities when the data manager (DM) logs in</li> <li>■ Only Activity 1 and Activity 3 when the CRA logs in</li> <li>■ Only Activity 1 when the investigator (INV) logs in</li> </ul> <p>The user role is not the only value that controls when RDC displays an activity. The value defined in the DISPLAY_EXPR column defines the condition that must be met for RDC to display the activity. See the DISPLAY_EXPR description later in this table for more information.</p>	VARCHAR2 (50)
TEXT	<p>Specifies the title of the activity. This is the title the user sees in the RDC application. Examples of title text:</p> <ul style="list-style-type: none"> <li>■ Show All My Open Discrepancies</li> <li>■ Review All Investigator Comments</li> <li>■ Go to the Oracle Web Site</li> </ul> <p>You must specify the TEXT value in English. RDC Onsite HTML currently only supports English. For RDC Classic, you can use the TEXT_NLS column to specify the title in Japanese for the NLS version of RDC Classic.</p> <p>The TEXT value can contain one or more tags. A tag provides variable information, such as the site name, a count of records, or a refer function. You use % signs to enclose a tag. For example, %OPEN_DISCREPS%.</p> <p>When you specify a tag in the TEXT column, RDC processes the tag as follows:</p> <ul style="list-style-type: none"> <li>■ Locates the tag in the RDC_ACTIVITY_TAGS table</li> <li>■ Calls the function specified in the FUNCTION_NAME column in that table</li> <li>■ Replaces the tag with the value returned by the called function</li> </ul> <p>For example, assume the TEXT column has the following line:</p> <pre>Show %OPEN_DISCREPS% Active Discrepancies for Site %CURR_SITE%</pre> <p>For this example, the resulting title in the RDC application might be:</p> <pre>Show 3 Active Discrepancies for Site ACME DRUG CO</pre> <p>You can also customize the return value of the function to take into account the applicable site.</p>	VARCHAR2 (200)

**Table 9–2 (Cont.) RDC\_ACTIVITIES Database Table**

Column Name	Description	Type (Max Length)
ACTIVITY_ID	Provides a unique key for the activity.	Number (10)
ACTIVITY_TYPE	<p>Defines the type of activity.</p> <ul style="list-style-type: none"> <li>■ <b>P</b> — Indicates that this is a <i>procedure activity</i>. Recall that a procedure activity executes the defined query, navigates to the appropriate RDC page, and displays only those patients/CRFs that meet your defined search criteria. You use this type of activity for procedure-based tasks.</li> </ul> <p>For RDC Classic, a procedure activity can also be a trigger activity that executes a specific Oracle Clinical function. Trigger activities apply to RDC Classic only.</p> <ul style="list-style-type: none"> <li>■ <b>U</b> — Indicates that this is a <i>URL activity</i>. Recall that a URL activity launches a browser instance, opens a new browser window, and automatically navigates to the web page associated with the URL. You use this type of activity for URL-based tasks.</li> </ul>	VARCHAR2 (15)
ACTIVITY_SCOPE	<p>Defines the scope in which the activity is eligible for display. The possible values for ACTIVITY_SCOPE depend on your version of the RDC application.</p> <p><i>For RDC Onsite HTML (4.5.3 and later), ACTIVITY_SCOPE determines the page navigation. Because all activities in RDC Onsite HTML are always processed for the current site, you do not need to define whether the activity is applicable to a specific study, site, or patient.</i></p> <ul style="list-style-type: none"> <li>■ <b>RDC_ZF_CRF</b> — Navigates to the Review CRFs page.</li> <li>■ <b>RDC_ZF_DISCREP</b> — Navigates to the Review Discrepancies page.</li> <li>■ <b>RDC_ZF_INV</b> — Navigates to the Review Investigator Comments page.</li> <li>■ <b>RDC_ZF_LINK</b> — Navigates to the web page defined by the URL.</li> </ul> <p><i>For RDC Onsite PDF (4.5.2):</i></p> <ul style="list-style-type: none"> <li>■ <b>ONSITE_CRF</b> — Navigates to the Review CRFs screen.</li> <li>■ <b>ONSITE_DISCREP</b> — Navigates to the Review Discrepancies screen.</li> <li>■ <b>ONSITE_LINK</b> — Navigates to the web page defined by the URL.</li> </ul> <p><i>For RDC Classic, ACTIVITY_SCOPE determines when to display and how to restrict the activity. You can define whether the activity is applicable to the study, site, or patient.</i></p> <ul style="list-style-type: none"> <li>■ <b>STUDY</b> — Displays when you initially open the activity screen or when you click on the study in the navigator panel.</li> <li>■ <b>XSITE</b> — Displays once for each site when you initially open the activity screen or when you click on the study in the navigator panel. For example, if four sites match the specified condition, then RDC Classic displays the activity four times.</li> <li>■ <b>SITE</b> — Displays when you click on the site name in the navigator panel if the site matches the specified criteria.</li> <li>■ <b>PATIENT</b> — Displays when you click on the patient name in the navigator panel if the patient matches the specified criteria.</li> </ul>	VARCHAR2 (15)

**Table 9–2 (Cont.) RDC\_ACTIVITIES Database Table**

Column Name	Description	Type (Max Length)
ACTIVITY_EXEC	<p>Defines what task RDC executes when the user clicks the activity link. The value you specify depends on the type of activity you are creating.</p> <p>If the ACTIVITY_TYPE is <b>P</b>, then the value in the ACTIVITY_EXEC column:</p> <ul style="list-style-type: none"> <li>Is the name of the procedure to call when the activity is executed. Procedures use standard variables to determine the current study, site, or patients. Therefore, tags are not necessary with procedures. Examples of procedures: <pre>rdc_activity_std.process_open_discreps RDC_ZF_surround_activity.LoadInvComments('All')</pre> </li> <li>Is a trigger activity to execute specific Oracle Clinical functions. Trigger activities apply to RDC Classic only.</li> </ul> <p>If the ACTIVITY_TYPE is <b>U</b>, then the value in the ACTIVITY_EXEC column is the URL. As shown in the following examples, you can use tags to make the URL sensitive to the context:</p> <pre>U = http://oracle.com/v_rmdir/study%CURR_STUDY%.htm U = http://opa.apps.us.oracle.com/v_rmdir/rdcservlet?study=%CURR_STUDY%&amp;site=%CURR_SITE%</pre> <p>For these URL examples, you must create the study specific web pages or a servlet that accepts study and site as parameters. See <a href="#">Section 9.6, "Creating and Maintaining Customized Activities"</a> for more information.</p>	VARCHAR2 (200)
DISPLAY_EXPR	<p>Defines the condition that determines whether RDC displays the activity link. You can enter no value (null) or you can specify a conditional display expression associated with the activity. The expression can include tags. The expression must return a true or false value.</p> <p>Based on the value in the column, RDC determines whether to display the activity.</p> <ul style="list-style-type: none"> <li>If the value is null, RDC always displays the activity.</li> <li>If the value of the specified expression evaluates to <b>true</b>, RDC displays the activity.</li> <li>If the value of the specified expression evaluates to <b>false</b>, RDC does not display the activity.</li> </ul> <p>You use the DISPLAY_EXPR column to suppress activities if no records match a specific condition. For example, you can define that RDC display a link to view all active discrepancies <i>only if</i> the number of open discrepancies is greater than zero (%OPEN_DISCREPS% &gt; 0).</p> <pre>%BLANK_COUNT%&gt;0 %OPEN_DISCREPS%&gt;0 %ZF_OTHER_DISC%&gt;0 %ZF_OPEN_DISC%&gt;0</pre>	VARCHAR2 (200)
TEXT_NLS ACTIVE_NLS STATUS_NLS LANGUAGE	<p>Provide support for the Japanese language for the RDC Classic NLS product.</p> <p>These columns do not apply to RDC Onsite, which currently only supports English.</p>	RDC Classic only

## 9.4.2 RDC\_ACTIVITY\_TAGS Database Table

The RDC\_ACTIVITY\_TAGS database table contains the tags that are defined in the system and the execution module (function name) that evaluates the tag.

Table 9-3 describes the column in the RDC\_ACTIVITY\_TAGS table.

**Table 9-3 RDC\_ACTIVITIES\_TAGS Database Table**

Column Name	Description	Type (Max Length)
ACTIVITY_TAG	<p>Defines the tag that you can then specify in the following columns in the RDC_ACTIVITIES database table:</p> <ul style="list-style-type: none"> <li>▪ TEXT</li> <li>▪ ACTIVITY_EXEC</li> <li>▪ DISPLAY_EXPR</li> </ul> <p>When RDC finds a tag in a column, RDC then searches through the values in the ACTIVITY_TAG column looking for a match for the tag.</p> <ul style="list-style-type: none"> <li>▪ Locates the tag in the RDC_ACTIVITY_TAGS table</li> <li>▪ Calls the function specified in the FUNCTION_NAME column in that table</li> <li>▪ Replaces the tag with the value returned by the called function</li> </ul> <p>When each of these columns is parsed, if a TAG is found, the process searches this column to find the TAG match so that it can identify the code or substitution variable to display in place of the TAG. If a match is found, it processes the expression found in the FUNCTION_NAME column.</p>	VARCHAR2 (15)
FUNCTION_TYPE	<p>Defines the type of function specified in the FUNCTION_NAME column.</p> <ul style="list-style-type: none"> <li>▪ <b>F</b> — Indicates the function is a user-defined function.</li> <li>▪ <b>S</b> — Indicates the function contains search parameters. You use this type as a place holder for the search parameters (if they need to be brought up as part of the URL link).</li> <li>▪ <b>P</b> — Indicates the function contains one of the following parameters: SITE, STUDY, or PATIENT. RDC Onsite sets the tag to the name to apply to the site, study, or patient. You cannot define new tags as parameter tags. The valid values are restricted to the name of the site, study, or patient.</li> <li>▪ <b>T</b> — Indicates the function is a trigger activity. Trigger activities apply to RDC Classic only.</li> </ul>	VARCHAR2 (15)
FUNCTION_NAME	<p>Defines either the name of the substitution variable or the name of the function in the system. Depending on the FUNCTION_TYPE value, the value in this column can be one of several types.</p> <ul style="list-style-type: none"> <li>▪ If the FUNCTION_TYPE is <b>F</b>, then this column holds a database function, for example rdc_activity_std.open_discreps. See Function Activity Tags for examples of activity tags with a function type of <b>F</b>.</li> <li>▪ If the FUNCTION_TYPE is <b>S</b>, then</li> <li>▪ If the FUNCTION_TYPE is <b>P</b>, then the only valid value is SITE. The tag gets the value of the current site being processed.</li> <li>▪ If the FUNCTION_TYPE is <b>T</b>, then this value refers to a trigger.</li> </ul>	VARCHAR2 (61)

## 9.5 Activity Tags and Functions Included with Oracle Clinical

Table 9–4 lists the default activity tags and the corresponding functions included with Oracle Clinical and configured to work with existing functions.

You can add records to the RDC\_ACTIVITY\_TAGS database table to point to a function you create or to a pre-existing function.

**Table 9–4 Default Activity Tags and Corresponding Functions**

Activity Tag	Function Name	Description	Valid For
ZF_OPEN_DISC	RDC_ZF_surround_discrep.getOpenDiscrep	Count of active discrepancies for the current context	RDC Onsite only
ZF_OTHER_DISC	RDC_ZF_surround_discrep.getOtherDiscrep	Count of other discrepancies for the current context	RDC Onsite only
CURR_ROLE	Rdc_user_activity_tags.getCurrRole	Role of the current user	All versions of RDC
CURR_SITE	Rdc_user_activity_tags.getCurrSite	Site in context	All versions of RDC
CURR_STUDY	Rdc_user_activity_tags.getCurrStudy	Study in context	All versions of RDC

## 9.6 Creating and Maintaining Customized Activities

As described in Table 9–1, RDC Onsite has a set of default activities.

By modifying the RDC\_ACTIVITIES database table, which contains the setup information for all the activities defined for the RDC application, you can:

- Create and add new activities
- Modify an existing activity
- Copy an existing activity and then modify it to create a new activity
- Delete an activity

In addition, you can create an activity procedure.

### 9.6.1 Working with the RDC\_ACTIVITIES Table

From SQL, select \* from rdc\_activities to find the values for columns in an existing table.

**To use these values to create procedural or link activities:**

1. Log in to the database server.
2. Execute opa\_setup opa\_setup *database-name*.
3. Connect to SQL\*Plus by entering the command line:
 

```
sqlplus rxc/rxcpassword
```
4. Determine the maximum activity ID that exists in the database:
 

```
SQL*Plus> SELECT max (activity_id) FROM rdc_activities;
```
5. If this is a task-based (procedural) activity, create a new activity procedure, unless using you are using an existing procedure. If this is a link activity, set up the web service referred to by the link, if necessary.

6. Create an insert script like the example below, copying the text, activity\_scope, activity\_type, activity\_exec, and display\_expr from the original activity that you want to replicate. When prompted for activity ID, enter a value just greater than the maximum activity id in the database or greater than 20,000. This is to avoid conflicts with activities included by Oracle Clinical. When prompted for the user role, enter the role for which you want to create this activity.

For example, enter the following command in a SQL session:

```
SQL*Plus> INSERT INTO rdc_activities (ACTIVITY_ID, CREATION_TS,
CREATED_BY, USER_ROLE, TEXT, ACTIVITY_SCOPE, ACTIVITY_TYPE,
ACTIVITY_EXEC, DISPLAY_EXPR) VALUES (&activityid, sysdate,
'RXC', 'DM,CRA&userrole', 'Review %OTHER_DISCREPS% Other Discrepancies',
'PATIENT', 'P', 'rdc_activity_std.process_other_discreps',
'%OTHER_DISCREPS%>0'); COMMIT;
```

### 9.6.1.1 Copying Activities

To copy an activity, you can use values from an existing activity to populate a new activity record and then modify the columns as appropriate.

For example, enter the following command in a SQL session:

```
SQL*Plus> INSERT INTO rdc_activities (ACTIVITY_ID, CREATION_TS,
CREATED_BY, USER_ROLE, TEXT, ACTIVITY_SCOPE, ACTIVITY_TYPE,
ACTIVITY_EXEC, DISPLAY_EXPR) VALUES (&activityid, sysdate,
CREATED_BY, USER_ROLE, TEXT, 'RDC_ZF_DISCREP', ACTIVITY_TYPE,
ACTIVITY_EXEC, DISPLAY_EXPR) WHERE activity_id = 72; COMMIT;
```

If copying from one surround to another (for instance, RDC Classic to RDC Onsite HTML), create a new activity procedure and specify the value in ACTIVITY\_EXEC.

### 9.6.1.2 Deleting Activities

To delete an activity, enter the following command:

```
SQL*Plus> DELETE FROM rdc_activities WHERE activity_id = 31;
```

Alternatively, you can update the user role to NONE:

```
SQL*Plus> UPDATE rdc_activities SET user_role = 'NONE' WHERE
activity_id = 31;
```

## 9.6.2 Creating an Activity Procedure

The activity\_exec in the ACTIVITY\_TAGS table specifies the activity procedure that gets executed immediately before a procedure-based activity (versus URL) is executed. The activity procedure is used to load query parameters before executing the query for a page.

To specify each search parameter and its value, use the following procedure:

**rdc\_zf\_surround\_activity.setSearchCondition** (*parameter, value*)

For example, the following procedure sets the BOOK\_ID parameter to retrieve only CRFs with a book ID of 123:

**rdc\_surround.setSearchCondition (BOOK\_ID, 123)**

Table 9-5 lists the parameters that you can specify in the search procedure. To see examples, refer to the existing procedure specified in the ACTIVITY\_EXEC column of rdc\_activities where the scope is like %ZF%.

When creating a new activity procedure, you should create your own package and not use those packages included with Oracle Clinical.

**Table 9–5 Parameters for the `rdc_zf_surround_activitiy.setSearchCondition` Procedure**

<b>Parameter</b>	<b>Description</b>	<b>Example/Possible Values</b>
STUDY_ID	Study ID	24601
SITE_ID	Site ID	4501
DCI_BOOK_ID	DCI book ID	1000
PATIENT_FROM	Starting range value for the patient ID	F101
PATIENT_TO	Ending range value for the patient ID	F106
VISIT_ID	Visit ID	10001
DCI_ID	DCI ID	101
APPROVAL_STATUS	Approval status	NOT APPROVED/APPROVED
VERIFICATION_STATUS	Verification status	NOT VERIFIED/VERIFIED
PATIENT_BOOK_ID	Patient book ID	101
CRF_ENTRY_STATUS	CRF entry status	BLANK RECEIVED BATCH LOADED PASS 1 COMPLETE PASS 1 STARTED PASS 2 COMPLETE PASS 2 STARTED PASS 1 OR 2 COMPLETE
PAT_DISC_STATUS	Patient discrepancy status	OTHER, ACTIVE
CRF_DISC_STATUS	CRF discrepancy status	OTHER, ACTIVE
DISC_STATUS	Discrepancy status	OTHER, ACTIVE
PATIENT_ENTRY_STATUS	Patient entry status	USED, NOT_USED
PATIENT_LIST	List of patient position IDs. Populated when you select a set of patients on the Home page or the Casebooks page, and then drill down.	100100, 100101
CRF_LIST	List of received DCI IDs	450001, 4500013, 4500014



### 9.6.3 Adding Counts to Existing Activities

The following default activities do not include counts:

- Review CRFs ready for approval
- Review CRFs ready for verification
- Review Investigator Comments

You can, however, modify these activities to include counts. You can use existing activity\_tags CRF\_READY\_VERI, CRF\_READY\_APP, or INV\_COMMENTS.

To use these, update the applicable activity tags so the text includes `%tag_name%`. The following statements update:

```
Connect as RXC user
SQL*Plus> UPDATE rdc_activities SET title = 'Review %CRF_READY_VERI% non-blank
CRFs ready for initial verification' WHERE activity_id = 9528;
SQL*Plus> UPDATE rdc_activities SET title = 'Review %CRF_READY_APP% non-blank
CRFs ready for initial approval' WHERE activity_id = 9529;
SQL*Plus> UPDATE rdc_activities SET title = 'Review %INV_COMMENTS% Investigator
comments' WHERE activity_id = 9530;
SQL*Plus> COMMIT;
```

---



---

**Note:** The Activity tags used in the above queries are existing tags referring to the function that limits to max 1000 rows, update the activity tag function or create a new activity tag referring to a new custom function, include the activity tag in the above query.

---



---

If you do not want to limit the count to 1,000, you will need to create your own function and create activity tag records to refer to these functions. The code for the function should be as follows:

```
FUNCTION <name> RETURN NUMBER
IS
  nCount NUMBER(10);
  nClinicalStudyId NUMBER(10);
  nSiteId NUMBER(10);
BEGIN
  nClinicalStudyId := rdc_daapi.getStudyId;
  nSiteId := rdc_daapi.getSiteId;
  <select statement from table below>;
  RETURN ncount;
END;
```

The SQL statements in [Table 9–6](#) will calculate the counts.

**Table 9–6 SQL Statements to Calculate Counts**

Count of...	SQL statement
CRFs Ready for Approval	<pre> SELECT /*+ index(rd RECEIVED_DCI_SITE_NFK_IDX) */ count(1) INTO nCount FROM received_dcis rd, patient_positions ppl WHERE rd.patient_position_id = ppl.patient_position_id AND ppl.has_data_flag = 'Y' AND ppl.clinical_study_id = nClinicalStudyId AND rd.end_ts = to_date(3000000,'J') AND rd.clinical_study_id = nClinicalStudyId AND rd.site_id = nSiteId AND rdc.rdc_verify_status(RDC_ZF_ surround.fetchMode,RD.received_dci_id) = 'VERIFIED' AND rdc.rdc_verify_status(RDC_ZF_ surround.fetchMode,RD.received_dci_id) = 'VERIFIED' AND rdc_daapi.hasDiscrep(rd.received_dci_id,'NONE')='Y' AND decode(RD.received_dci_status_code,'PASS 1 COMPLETE',1,'PASS 2 STARTED',1,'PASS 2 PENDING',1,'PASS 2 COMPLETE',1,0) = 1                     </pre>
CRFs Ready for Verification	<pre> SELECT /*+ index(rd RECEIVED_DCI_SITE_NFK_IDX) */ count(1) INTO nCount FROM received_dcis rd, patient_positions ppl WHERE rd.patient_position_id = ppl.patient_position_id AND ppl.has_data_flag = 'Y' AND ppl.clinical_study_id = nClinicalStudyId AND rd.end_ts = to_date(3000000,'J') AND rd.clinical_study_id = nClinicalStudyId AND rd.site_id = nSiteId AND decode(rdc.rdc_verify_status(RDC_ZF_ surround.fetchMode,RD.received_dci_id),'NOT VERIFIED',1,'UNDONE',1,0) = 1 AND rdc_daapi.hasDiscrep(rd.received_dci_id,'NONE')='Y' AND decode(RD.received_dci_status_code,'PASS 1 COMPLETE',1,'PASS 2 STARTED',1,'PASS 2 PENDING',1,'PASS 2 COMPLETE',1,0) = 1                     </pre>
Investigator Comments	<pre> SELECT /*+ index(ppl PATIENT_POSITION_PK_IDX) index(rd RECEIVED_DCI_PK_IDX) index(respX RESPONSE_PK_IDX) index(rdcM RECEIVED_DCM_PK_IDX)*/ count(1) INTO nCount FROM responses respX,received_dcms rdcM,received_dcis rd,patient_positions ppl WHERE dcmX.RECEIVED_DCM_ID = respX.RECEIVED_DCM_ID AND respX.clinical_study_id = nClinicalStudyId AND rdcM.end_ts = to_date(3000000,'J') AND rd.end_ts = to_date(3000000,'J') AND rd.received_dci_id = rdcM.received_dci_id AND ppl.patient_position_id = rd.patient_position_id AND respX.end_ts = to_date(3000000,'J') AND ppl.clinical_study_id = nClinicalStudyId AND rd.site_id = nSiteId AND respX.data_comment_text is not null                     </pre>

## 9.7 Creating an Activity Tag Function

The `FUNCTION_NAME` column in `ACTIVITY_TAGS` table specifies the function that gets executed when a tag is evaluated. You can look at the existing functions specified in `FUNCTION_NAME` column of `rdc_activities` to see examples.

If the existing activity tags do not provide what you are looking for, you can create a new activity tag and corresponding activity tag functions. You should create your own package and not use those packages included with Oracle Clinical.

Activity tag functions commonly execute a SQL statement to count the applicable activity.

If the activity count causes performance problems, there are various ways to improve performance if tuning the specific SQL statement does not work. You can limit the count to first **1,001** rows, and return **>1,000** if more than **1,000**. If two activities require processing a similar set of records, you could calculate two counts simultaneously, return the first count, and buffer the second count. The function for the second activity could return the buffered value. This technique requires that the activities are displayed in a specific order.

[Table 9-7](#) lists the functions included in `RDC_ACTIVITY_STD` package included that you can use in your activity tag function.

**Table 9-7 Functions Included in the `RDC_ACTIVITY_STD` Package**

Functions	Description
<code>GetCurrStudy</code>	Returns the study in current context. No parameters.
<code>GetCurrSite</code>	Returns the site in current context. No parameters.
<code>GetCurrScope</code>	Returns the scope. For example, <code>RDC_ZF_CRF</code> , <code>RDC_ZF_DISCREP</code> , <code>RDC_ZF_INV</code> , <code>RDC_ZF_LINK</code>
<code>GetTestProd</code>	Returns the mode for the user currently logged in to RDC Onsite. <b>P</b> for Production mode; <b>T</b> for Test mode.
<code>GetCurrRole</code>	Returns the role of user currently logged in to RDC Onsite. No parameters.



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## Configuring Links

You can use the Maintain Links form in the RDC Administration application to add customized links to RDC Onsite. Any information that can be made available through a URL can be made accessible to RDC Onsite users.

In addition, your customized links support passing session details to a URL or database function. Therefore, you can link to pages that are context-sensitive to a user's current RDC Onsite environment.

For example, you can configure a URL that RDC Onsite displays in the Links section on the Home page. The link adds a parameter string with the session's user role value to the URL. You can write a target page that switches the content according to user role. A site user, data manager, and investigator can then view different content from the same link.

This chapter includes the following topics:

- [About Custom Links](#)
- [Using the Maintain Links Form](#)
- [Link Parameters](#)
- [Creating Links for the Home Page](#)
- [Defining Links for the Patient Summary Reports](#)
- [Defining a Link for CRF Help](#)

## 10.1 About Custom Links

In the Maintain Links form, you can customize links that display in the RDC Onsite application. You can define links for:

- The Links section on the Home page
- The Links section in a Patient Summary Report
- The CRF Help icon when viewing and updating a CRF in the Data Entry window

When you create these links, you can restrict the audience for the link. You can define who has access to the link and the associated web page. Access can range from no restriction (for all users) to very restricted access (for users with a certain role only).

---

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**Note:** You do not configure other custom links, such as a News link or an Activity link, in the Maintain Links form. For more information on customizing those links, see [Chapter 8, "Configuring News"](#) and [Chapter 9, "Customizing Activities."](#)

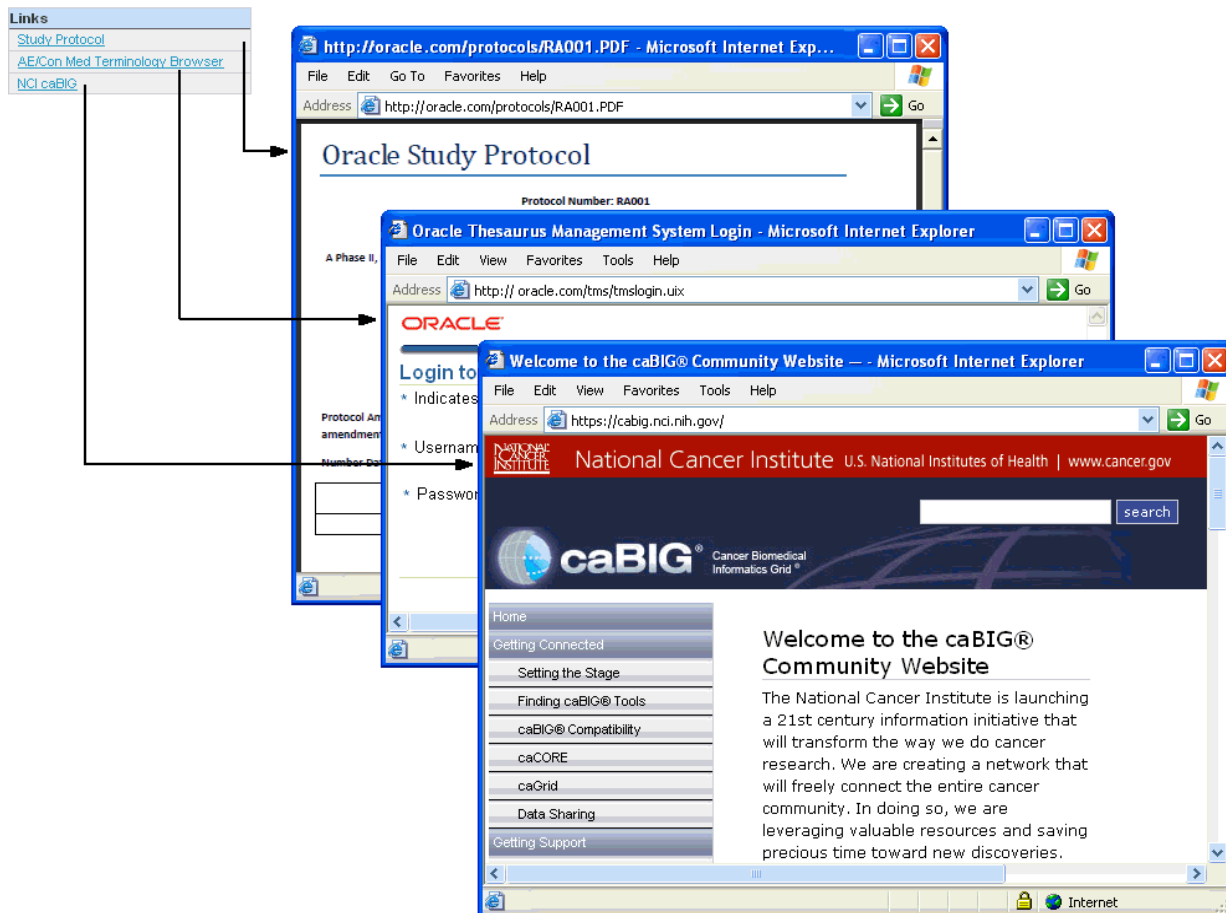
---

---

### 10.1.1 Links on the Home Page

In RDC Onsite, the Links section on the Home page displays your customized links to other web sites or applications. See [Figure 10-1](#). The Home page supports an unlimited number of links. You can also change the title of the Links section.

**Figure 10-1** Sample Customized Links on the Home Page

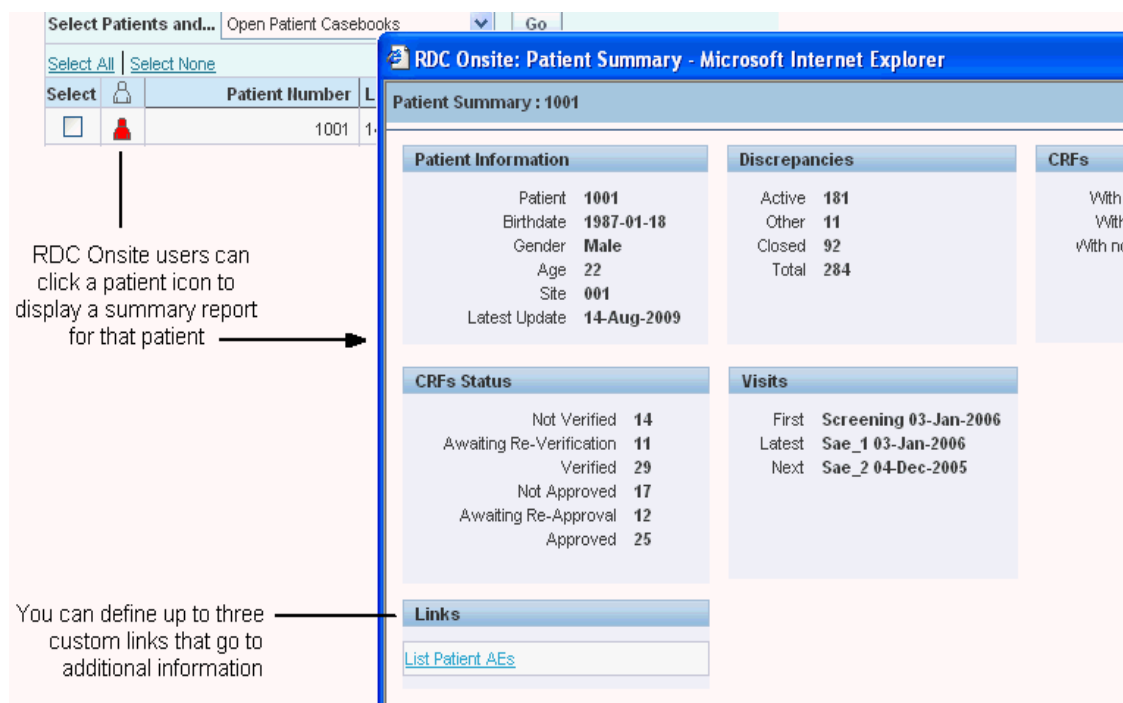


### 10.1.2 Links on the Patient Summary Report

RDC Onsite lets you display a maximum of three patient links in the Links section of a Patient Summary Report. See Figure 10-2.

In a typical patient link, RDC passes parameters to a custom SQL program and opens a new browser window. The custom program queries the database for patient data and presents a custom report in the new browser window.

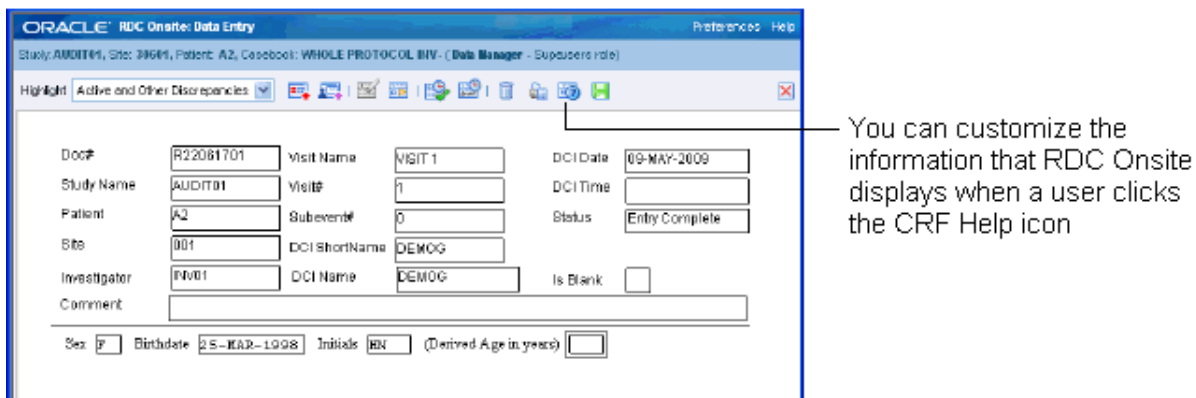
Figure 10-2 Links Displayed in the Patient Summary Report



### 10.1.3 A Link for CRF Help

You can configure one link for the CRF Help icon in the toolbar in the Data Entry window. When the user clicks the icon, RDC Onsite opens a new browser window to the link's target location. RDC Onsite displays the CRF Help icon only if you define and enable a link in the Maintain Links form.

Figure 10-3 Customizing Help for the CRF



## 10.2 Using the Maintain Links Form

To access the Maintain Links form:

1. Log in to the RDC Administration application.
2. Select **Maintain**, and then select **Links**.

Figure 10–4 shows the Maintain Links form.

**Figure 10–4** Maintain Links Form

Seq#	Link Text	URL	Type	Scope	Use Pt/CRF link in Onsite
2	Google	http://www.google.com	Static	Site	<input type="checkbox"/>
3	MSN	http://www.msn.com	Static	Study	<input type="checkbox"/>
4	Expedia	http://www.expedia.com	Static	Site	<input type="checkbox"/>
5	Mapquest	http://www.mapquest.com	Static	Patient	<input checked="" type="checkbox"/>
6	Fandango	http://www.fandango.com	Static	User	<input type="checkbox"/>
7	Weather Channel	http://www.weather.com	Static	Patient	<input checked="" type="checkbox"/>
1	Yahoo	http://www.yahoo.com	Static	User	<input type="checkbox"/>
8	Dynamic Link Study	dmo_links.geturl	Dynamic	Study	<input type="checkbox"/>
9	Dynamic Link	dmo_links.geturl	Dynamic	CRF	<input checked="" type="checkbox"/>
10	Dynamic Link User	dmo_links.geturl	Dynamic	User	<input type="checkbox"/>
11			Static	Study	<input type="checkbox"/>
12			Dynamic	CRF	<input type="checkbox"/>
13			Static	CRF	<input type="checkbox"/>

Exit Save

### 10.2.1 Ordering the Display of Links

Use the **Seq#** field to specify the order in which a link appears in its section in RDC Onsite. The value for each Seq# must be unique for all links that appear in RDC Onsite.

### 10.2.2 Defining the Link Text

Use the **Link Text** field to specify the text for the link label.

RDC Onsite uses this text when listing the links on the Home page and in the Patient Summary Report.



### 10.2.3 Specifying the URL or Function

Use the **URL** field to specify either the URL or the function name, depending on whether you are creating a static link or a dynamic link:

- For a static link, enter the URL of the target web page. The URL must work when RDC Onsite appends the parameters listed in [Table 10-2](#), even if you do not take advantage of the parameters.
- For a dynamic link, enter the specification for the function. The function must handle the parameters specified in [Table 10-3](#).

### 10.2.4 Specifying the Type of Link

Use the **Type** field to specify the type of link you are creating. You can define two type of links for use in the RDC Onsite application:

- Static links
- Dynamic links

Both types of links support passing parameter values to a URL. Therefore, you can link to pages that are context-sensitive to a user's current RDC Onsite environment.

The two types of links differ in the way RDC Onsite generates the URLs.

**For static links**, RDC Onsite appends a parameter string of session information to the target URL you specified in the URL field. You must write a target URL page, such as a JavaServer page, that can process the parameters. Note that for a static link with a scope of None, RDC Onsite passes a URL without a parameter string.

**For dynamic links**, RDC Onsite derives the URL from the return value of the database function you specified in the URL field. The database function also takes parameters. You must create the target URL page. Dynamic links trigger your own functions to return URLs.

### 10.2.5 Specifying the Link Scope

The **scope of a link** determines two factors: where RDC Onsite displays the link and which parameter values RDC Onsite passes to either the URL or the function.

- Links of scope **None**, **User**, **Study**, and **Site** display in the Links section on the Home page. The Home page supports an unlimited number of links.
- Links of scope **Patient** display in the Links section of a Patient Summary Report. You can define a maximum of three links to display in a Patient Summary Report. In the Maintain Links form, you select the **Use Pt/CRF Link in Onsite** check box to mark up to three links to display in the Patient Summary Report.
- A link of scope **CRF** configures a link for the CRF Help icon in a Data Entry window. In the Maintain Links form, you select the **Pt/CRF Link in Onsite** check box for one link.

## 10.2.6 Enabling Patient Summary and CRF Help Links

The **Use Pt/CRF Link in Onsite** check box applies only to links of scope **CRF** or **Patient**.

RDC Onsite lets you display a maximum of three patient links in a Patient Summary Report. It lets you define one link for the CRF Help icon in a Data Entry window.

To specify which patient and CRF links appear in RDC Onsite, select the **Use Pt/CRF Link in Onsite** check box for the appropriate links.

## 10.3 Link Parameters

[Table 10-1](#) describes all the possible parameters for static links and dynamic links. The scope of a link defines the subset of these parameters that RDC Onsite appends to your specified URL or passes to your specified function.

**Table 10-1** *Parameter Descriptions*

Static Links Parameter Name	Dynamic Links Parameter Name	Database Object	Description
userid	pUserId	USERID	Sends the login user ID of the RDC Onsite session.
user_role	pUserRole	USER_ROLE	Sends the RDC Onsite login user's assigned role value.
test_prod	pTestProd	TEST_PROD	Sends the session's study mode: T for Test mode or P for Production mode.
study_id	pStudyId	CLINICAL_STUDY_ID	Sends the internal Oracle Clinical identifier that corresponds to the STUDY value.
study	pStudy	STUDY	Sends the session's Oracle Clinical Study name.
site_id	pSiteId	SITE_ID	Sends the internal Oracle Clinical identifier that corresponds to the SITE value.
site	pSite	SITE	Sends the session's SITE value.
patient_id	pPatientId	PATIENT_POSITION_ID	Sends the internal Oracle Clinical identifier that corresponds to the PATIENT value.
patient	pPatient	PATIENT	Sends the name of the PATIENT the user is currently viewing.
book_id	pBookId	DCI_BOOK_ID	Sends the internal identifier that corresponds to DCI_BOOKS.NAME.
book	pBook	DCI_BOOKS.NAME	Sends the name of the DCI book the user is currently viewing.
dci_id	pDciId	DCI_ID	Sends the internal Oracle Clinical identifier that corresponds to the user's currently viewed DCI.
cpe_id	pCpeId	CLIN_PLAN_EVE_ID	Sends the internal Oracle Clinical identifier that corresponds to the user's currently viewed Clinical Planned Event.
subno	pSubNo	SUBEVENT_NUMBER	Sends the subevent number.
page_display_sn	PPageDisplaySn	DISPLAY_SN	Sends the DCI's sequence number, its viewing order in the currently viewed DCI Book. DISPLAY_SN is in the DCI_BOOK_PAGES table.

**Table 10–1 (Cont.) Parameter Descriptions**

Static Links Parameter Name	Dynamic Links Parameter Name	Database Object	Description
page_no	pPageNo	—	Sends the derived page number in the currently viewed Data Entry window of a multiple-page DCI.
—	pHeader	—	Sends the value of the URL field. This value is used in earlier RDC releases. It is available in dynamic links but not in static links.
—	pScope	—	Sends the scope type to a dynamic link function. It is available in dynamic links but not in static links.

### 10.3.1 Parameters for Static Links Based on Scope

Static links generate a URL from the target HTTP address defined in the Maintain Links form. Based on the scope of the link, RDC Onsite appends a subset of parameter values from the user's current session to your specified URL when the user clicks the link.

You create a target web page that can resolve the parameter values that RDC Onsite appends to the URL. You do not have to use all of the parameters, but the target page must be able to open the URL.

Table 10–2 lists the parameter strings that RDC Onsite appends to static links, according to the scope of the link.

**Table 10–2 Parameter Strings for Static Links**

Scope	Parameter String Appended to the URL Value
None	RDC Onsite appends no parameters to the URL value.
User	?user_role=user_role
Study	?userid=userid&user_role=user_role&test_prod=test_prod &study_id=study_id&study=study
Site	?userid=userid&user_role=user_role&test_prod=test_prod &study_id=study_id&study=study&site_id=site_id&site=site
Patient	?userid=userid&user_role=user_role&test_prod=test_prod &study_id=study_id&study=study&site_id=site_id&site=site &patient_id=patient_id&patient=patient
CRF	?userid=userid&user_role=user_role&test_prod=test_prod &study_id=study_id&study=study&site_id=site_id&site=site &patient_id=patient_id&patient=patient&book_id=book_id &book=book&dci_id=dci_id&cpe_id=cpe_id&subno=subno &page_display_sn=page_display_sn&page_no=page_no

### 10.3.2 Parameters for Dynamic Links Based on Scope

Dynamic links derive an HTTP address from a function. You create a function that returns a URL.

Table 10–3 lists the parameters that RDC Onsite passes to a SQL function, according to the scope of the link. All parameters are VARCHAR2 except for the pStudyId and pSiteId parameters, which are NUMBER.

**Table 10–3 Dynamic Link Parameters**

Scope	Parameters Passed to the SQL Function
None	pHeader, pScope
User	pHeader, pScope, pUserRole
Study	pHeader, pScope, pUserId, pUserRole, pTestProd, pStudyId, pStudy
Site	pHeader, pScope, pUserId, pUserRole, pTestProd, pStudyId, pStudy, pSiteId, pSite
Patient	pHeader, pScope, pUserId, pUserRole, pTestProd, pStudyId, pStudy, pSiteId, pSite, pPatientId, pPatient
CRF	pHeader, pScope, pUserId, pUserRole, pTestProd, pStudyId, pStudy, pSiteId, pSite, pPatientId, pPatient, pBookId, pBook, pDciId, pCpeId, pSubNo, pPageDisplaySn, pPageNo

---

**Note:** The **Maintain Links** form does not verify the existence of, validity of, or access privileges to functions or data.

---

### 10.3.2.1 Sample Function Available

Oracle provides the following sample function that you can use when defining links:

#### **dmo\_links.geturl**

This function is in the rxcpbdomolinks.sql file, which is located in the INSTALL directory.

### 10.3.2.2 Function Specification for Dynamic Links

The following specification outlines the requirements of the function that is accessed by dynamic links with a scope of CRF.

---

**Note:** A dynamic link with a scope of CRF processes all available session parameters. You can specify functions for dynamic links of other scopes with fewer parameters, but if you use DEFAULT NULL then you can include the extra parameters.

---

```

Create or replace FUNCTION sub-program name here(
  , pHeader          IN VARCHAR2 DEFAULT NULL
  , pScope          IN VARCHAR2 DEFAULT NULL
  , pUserId         IN VARCHAR2 DEFAULT NULL
  , pUserRole       IN VARCHAR2 DEFAULT NULL
  , pTestProd       IN VARCHAR2 DEFAULT NULL
  , pStudyId        IN VARCHAR2 DEFAULT NULL
  , pStudy          IN VARCHAR2 DEFAULT NULL
  , pSiteId         IN VARCHAR2 DEFAULT NULL
  , pSite           IN VARCHAR2 DEFAULT NULL
  , pPatientId      IN VARCHAR2 DEFAULT NULL
  , pPatient        IN VARCHAR2 DEFAULT NULL
  , pBookId         IN VARCHAR2 DEFAULT NULL
  , pBook           IN VARCHAR2 DEFAULT NULL
  , pDciId          IN VARCHAR2 DEFAULT NULL
  , pCpeId         IN VARCHAR2 DEFAULT NULL

```

```

, pSubNo          IN VARCHAR2 DEFAULT NULL
, PPageDisplaySn IN VARCHAR2 DEFAULT NULL
, pPageNo        IN VARCHAR2 DEFAULT NULL
)RETURN VARCHAR2 IS
BEGIN sub-program logic here
END;
```

## 10.4 Creating Links for the Home Page

Links of scope **None**, **User**, **Study**, and **Site** display in the Links section of the RDC Onsite Home page.

The Home page in RDC Onsite displays your customized links in the Links section. The Home page supports an unlimited number of links. You can also change the name of the Links section.

Links on the Home page can have one of the following scopes:

- **None** — Use this scope to create a link with no parameter information from the user's session. For example, you can create a link to your company's home page.
- **User** — Use this scope to generate links targeted to user roles.
- **Study** — Use this scope to generate links to study-specific content.
- **Site** — Use this scope to generate links to site-specific content.

Table 10–1 describes all the possible parameters for static links and dynamic links. For static links, see Table 10–2 for a list of parameter values that RDC Onsite appends to your specified URL based on the scope of the link. For dynamic links, see Table 10–3 for a list of parameter values that RDC Onsite passes to your specified function based on the scope of the link.

### 10.4.1 Defining a Link for the Home Page

To define a link for the Links section on the Home page:

1. Log in to the RDC Administration application.
2. Select **Maintain**, and then select **Links**.
3. Insert or modify a row in the Maintain Links form to have these settings:
  - **Seq#** — Sequence the rows so they have the same sequence that you prefer in the Links section on the Home page.
  - **Link Text** — Enter the link label. RDC Onsite uses your specified text when listing the links in the Links section on the Home page.

Links
<a href="#">Study Protocol</a>
<a href="#">AE/Con Med Terminology Browser</a>
<a href="#">NCI caBIG</a>

- **URL** — Enter the URL if you are defining a static link; enter the name of the function if you are defining a dynamic link.
- **Type** — Select either **Static** or **Dynamic**. (See Section 10.2.4, "Specifying the Type of Link" for more information.)

- **Scope** — Select **None**, **User**, **Study**, or **Site**. The scope determines which parameter values RDC Onsite passes to either the URL or the function.
  - **Use PT/CRF Link in Onsite** — Do not enable this setting. This setting applies only to links of scope CRF or Patient.
4. Save your changes.
  5. Create a target Web page that can resolve the parameters RDC Onsite passes when the user invokes the link.

## 10.4.2 Parameters for Links with a Scope of None

Use scope type **None** to create a link with no parameter information from the user's session.

- For a static link of scope None, RDC Onsite does not append a parameter string to the URL.
- For a dynamic link of scope None, RDC Onsite passes the following parameter values to the function:

`pHeader`, `pScope`

## 10.4.3 Parameters for Links with a Scope of User

Use scope type **User** to generate links targeted to user roles.

- For a static link of scope User, RDC Onsite appends the following parameter values from the user's session to the URL:

`?user_role=user_role`

- For a dynamic link of scope User, RDC Onsite passes the following parameter values from the user's session to the function:

`pHeader`, `pScope`, `pUserRole`

See [Table 10-1](#) for a description of each parameter.

### **Example 10-1** *Creating a Dynamic User Link*

Sample steps to create a dynamic user link:

1. Insert a row into the Maintain Links form.
2. Specify the following values:
  - **URL:** `dynamicUrl.getUsersUrl`
  - **Type:** Dynamic
  - **Scope:** User
3. Create a SQL function named `getUsers` in package `dynamicUrl` with the following specification:

```
function getUsers (pHeader varchar2, pScope varchar2,
pUserRole varchar2)
return varchar2
```

4. Write the return clause of the function to return a URL.

## 10.4.4 Parameters for Links with a Scope of Study

Use scope type **Study** to generate links to study-specific content.

- For a static link of scope Study, RDC Onsite appends the following parameter values from the user's session to the URL:

```
?userid=userid&user_role=user_role&test_prod=test_prod
&study_id=study_id&study=study
```

- For a dynamic link of scope Study, RDC Onsite passes the following parameter values from the user's session to the function:

```
pHeader, pScope, pUserId, pUserRole, pTestProd, pStudyId,
pStudy
```

See [Table 10-1](#) for a description of each parameter.

### **Example 10-2 Static Study Link**

Configure a static link of scope Study for the following URL:

```
http://mycompany.com/study.jsp
```

If the data manager PRASPADM is viewing the PILOT study, which is in production, RDC Onsite generates the following URL:

```
http://mycompany.com/study.jsp?userid=OPS$PRASPADM&user_
role=DM&test_prod=P&study_id=28601&study=PILOT
```

## 10.4.5 Parameters for Links with a Scope of Site

Use scope type **Site** to generate links to site-specific content.

- For a static link of scope Site, RDC Onsite appends the following parameter values from the user's session to the URL:

```
?userid=userid&user_role=user_role&test_prod=test_prod
&study_id=study_id&study=study&site_id=site_id&site=site
```

- For a dynamic link of scope Site, RDC Onsite passes the following parameter values from the user's session to the function:

```
pHeader, pScope, pUserId, pUserRole, pTestProd, pStudyId,
pStudy, pSiteId, pSite
```

See [Table 10-1](#) for a description of each parameter.

### **Example 10-3 Static Site Link**

Configure a static link of scope Site for the following URL:

```
http://mycompany.com/site.jsp
```

If the data manager JSMITH at site 001 is running a session in the PDFREPORT study, which is in production, RDC Onsite generates the following URL:

```
http://mycompany.com/site.jsp?userid=ops$jsmith
&user_role=dm&test_prod=P&study_id=55202&study=pdfreport
&site_id=4501&site=001
```

## 10.4.6 Customizing the Label for the Links Section

The **Label for the Links Tab** configuration setting lets you customize the title of the Links section on the Home page. For example, you may want to change the title to *More Study Information* or *Helpful Web Sites*.

For more information on customizing the label, see [Section 3.3, "Configuration Settings for RDC Onsite."](#)

## 10.5 Defining Links for the Patient Summary Reports

You can define a maximum of three links for the Links section of a Patient Summary Report. These links have a scope of **Patient**.

**To define a link for the Patient Summary Report:**

1. Log in to the RDC Administration application.
2. Select **Maintain**, and then select **Links**.
3. Insert or modify a row in the Maintain Links form to have these settings:
  - **Seq#** — You can define up to three links for the Patient Summary Report. Sequence the Patient-scope rows so they have the same sequence that you prefer in the report's Links section.
  - **Link Text** — Enter the link label.
  - **URL** — Enter the URL if you are defining a static link; enter the name of the function if you are defining a dynamic link.
  - **Type** — Select either **Static** or **Dynamic**. (See [Section 10.2.4, "Specifying the Type of Link"](#) for more information.)
  - **Scope** — Select **Patient**.
  - **Use PT/CRF Link in Onsite** — Enable this check box. You can select up to three rows with a scope of Patient.
4. Save your changes.
5. Create a target web page or JavaServer page referred to by the static URL, or the dynamic return value of the function you specified.

### 10.5.1 Parameters for a Patient Link

Use scope type **Patient** to create links for the Patient Summary Report.

- For a static link of scope Patient, RDC Onsite appends the following parameter values from the user's session to the URL:

```
?userid=userid&user_role=user_role&test_prod=test_prod
&study_id=study_id&study=study&site_id=site_id&site=site
&patient_id=patient_id&patient=patient
```

- For a dynamic link of scope Patient, RDC Onsite passes the following parameter values from the user's session to the function:

```
pHeader, pScope, pUserId, pUserRole, pTestProd, pStudyId,
pStudy, pSiteId, pSite, pPatientId, pPatient
```

See [Table 10-1](#) for a description of each parameter.



**Example 10–4 Static Patient Link**

Configure a static link of scope Patient for the following URL:

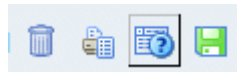
```
http://mycompany.com/patient.jsp
```

When data manager JSMITH, who is viewing patient 101 of in-production study PDFREPORT at site 001, clicks on the link in the Patient Summary Report, RDC Onsite invokes the following URL:

```
http://mycompany.com/patient.jsp?userid=ops$jsmith
&user_role=dm&test_prod=p&study_id=28601&study=pdfreport
&site_id=4501&site=001&patient_id=100001&patient=101
```

## 10.6 Defining a Link for CRF Help

You can configure one link for CRF Help. If you configure this link, RDC Onsite automatically adds the CRF Help icon to the toolbar in the Data Entry window.



Clicking the icon opens a new browser window to the link's target location and displays sponsor-defined help for the current CRF.

The link for CRF Help has a scope of CRF. The link can be static or dynamic.

### To configure a link for CRF Help:

1. Log in to the RDC Administration application.
2. Select **Maintain**, and then select **Links**.
3. Insert or modify a row in the Maintain Links form to have these settings:
  - **Seq#** — Not relevant because you can define only one link for CRF Help.
  - **Link Text** — Not relevant because RDC Onsite adds the CRF Help icon to the toolbar.
  - **URL** — Enter the URL if you are defining a static link; enter the name of the function if you are defining a dynamic link.
  - **Type** — Select either **Static** or **Dynamic**. (See [Section 10.2.4, "Specifying the Type of Link"](#) for more information.)
  - **Scope** — Select **CRF**.
  - **Use PT/CRF Link in Onsite** — Enable this check box. You can select only one row for a CRF link.
4. Save your changes.
5. Create a target web page or JavaServer page referred to by the static URL, or the dynamic return value of the function you specified.

### 10.6.1 Parameters for a CRF Help Link

Use scope type **CRF** to create a link to the CRF Help.

- For a static link of scope CRF, RDC Onsite appends the following parameter values from the user's session to the URL:

```
?userid=userid&user_role=user_role&test_prod=test_prod
&study_id=study_id&study=study&site_id=site_id&site=site
&patient_id=patient_id&patient=patient&book_id=book_id
&book=book&dci_id=dci_id&cpe_id=cpe_id&subno=subno
&page_display_sn=page_display_sn&page_no=page_no
```

- For a dynamic link of scope CRF, RDC Onsite passes the following parameter values from the user's session to the function:

```
pHeader, pScope, pUserId, pUserRole, pTestProd, pStudyId,
pStudy, pSiteId, pSite, pPatientId, pPatient, pBookId, pBook,
pDciId, pCpeId, pSubNo, pPageDisplaySn, pPageNo
```

See [Table 10-1](#) for a description of each parameter.

## 10.7 Querying Link Definitions

In the RDC Administration application, you can also navigate to **Query** and then select **Links** to access the Maintain Links form in query mode. This option lets you access and view — but not add or modify — the links that are defined for RDC Onsite.

## 10.8 About Storing Your Customized Web Pages

See [Section 6.10, "Storing Custom Web Pages"](#) for more information on where to place your web pages.

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## Customizing Online Help

You can customize the help that users can display when using the RDC Onsite application. You can create help text for each field in a CRF, modify the existing online help topics installed with RDC Onsite, and create help information for CRFs displayed in the Data Entry window.

This chapter includes the following topics:

- [Defining Help for the Fields in a CRF](#)
- [Customizing Online Help](#)
- [Defining Help for CRFs](#)

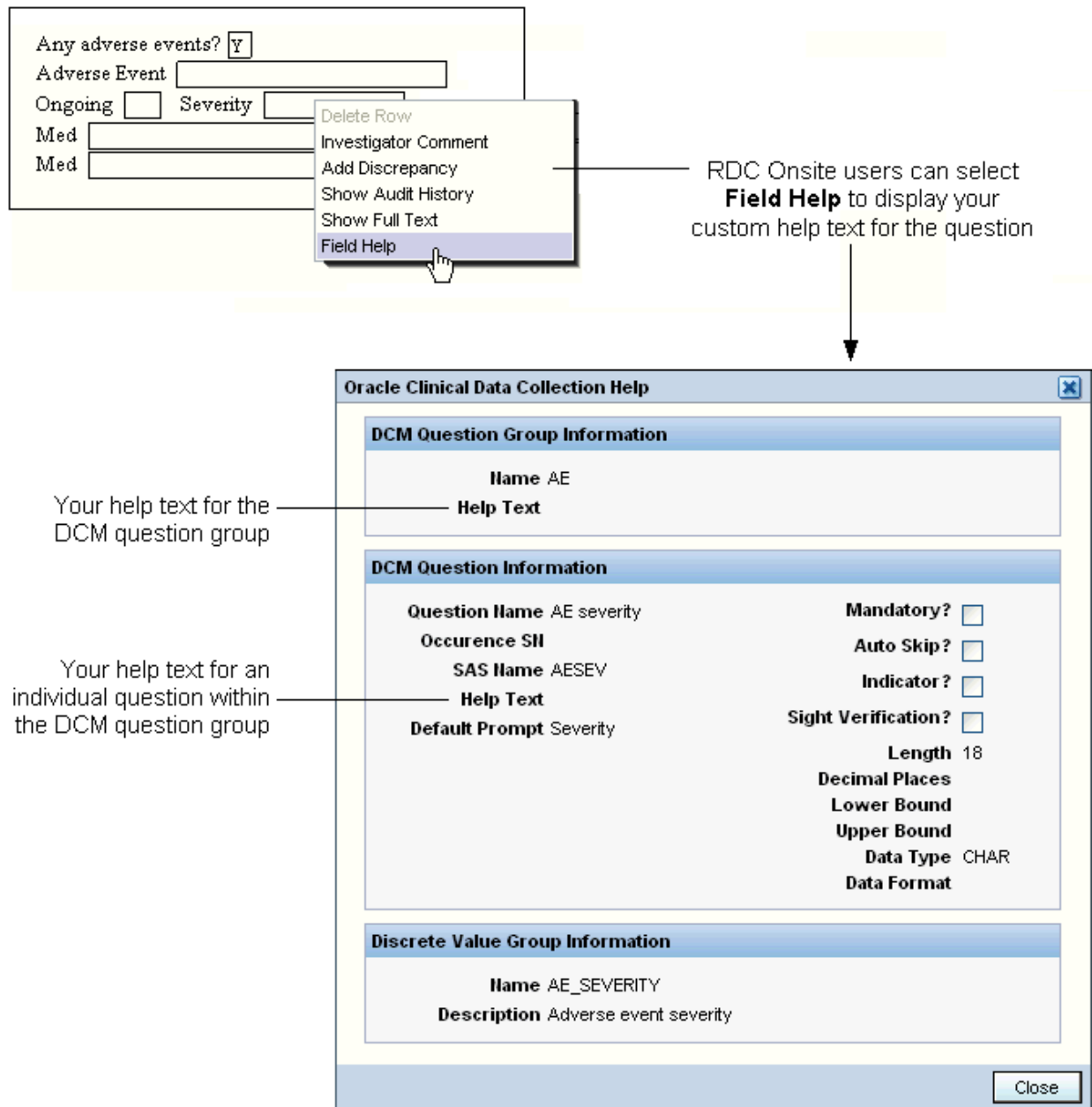
## 11.1 Defining Help for the Fields in a CRF

When using RDC Onsite to enter and update data in a CRF, users can right-click a field and select **Field Help** to get more information about the field.

RDC Onsite opens the Oracle Clinical Data Collection Help window, which displays the help text for the field's DCM Question Group, the help text for the selected field, and other details. See [Figure 11-1](#).

To define this field-level help, you add text to the Oracle Clinical data collection definitions.

**Figure 11-1 Custom Help Text for Fields in a CRF**



You can enter CRF field help text in Oracle Clinical at the study level for:

- DCM question groups
- Individual DCM questions within a group

---



---

**Note:** You can define help text for active or provisional DCMs only.

---



---

**To enter help text for a DCM question group and its DCM questions:**

1. Open Oracle Clinical.
2. Navigate to **Definition, DCMs**, and then select **DCMs**.
3. Select the study where you are defining help text. The Maintain Study DCMs form opens.
4. Select a DCM and then click **DCM Question Groups**. The DCM Question Groups form opens, listing the question groups that are part of the study's DCM.

**To define help text for a DCM question group:**

- a. Select a question group.
- b. Scroll to the right until you view the Help Text field.
- c. Enter up to 200 characters of text.

**To define help text for an individual question in a DCM question group:**

- a. Select a question group.
  - b. Click **DCM Questions**. The DCM Questions form opens, displaying the individual questions that comprise the question group.
  - c. Scroll to the right until you view the Help Text field.
  - d. Enter up to 200 characters of text.
5. Save your changes and regenerate the CRF.

## 11.2 Customizing Online Help

RDC Onsite includes context-sensitive online help files that describe using the application's features. Users invoke the online help by clicking the **Help** link or button displayed on the application pages, in the Data Entry window, or in a dialog box.

The online help includes several navigation frames and a large content frame that displays the contextual topics. The topic files are in HTML format and are generated from the *Oracle Clinical Remote Data Capture Onsite User's Guide* content. You can customize a copy of the online help files and redirect RDC Onsite to display your copy.

---



---

**Note:** The online help is dynamically generated and changes may not be consistent between generations. Oracle does not document changes to the structure or content of the online help between upgrades. If you customize the online help, you may have to reconcile your changes after installing a patch or an upgrade. Release notes indicate if the patch or upgrade affects the online help.

---



---

The tasks required to customize the RDC Onsite online help are as follows:

- [Copying the RDC Onsite Help Files](#)
- [Identifying Individual Topic Files](#)
- [Modifying the Topic Text](#)
- [Diverting the Help Call to a Custom Location](#)

## 11.2.1 Copying the RDC Onsite Help Files

During the installation of Oracle Clinical and RDC Onsite, the system installs the online help files for RDC Onsite into the following directory:

```
ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\rdconsite\  
xhelp\rdc\footprint\*.*
```

**Before you customize the help files:**

1. Copy all the help files from the default location to another location on the application server.
2. Edit the **web.xml** file to specify the new location for your customized online help files. [Section 11.2.4, "Diverting the Help Call to a Custom Location"](#) for more information

The context-sensitive help calls from RDC Onsite require that the directory structure for your customized online help matches the help directory structure provided with RDC Onsite.

You can locate your custom help directory on the shared drive of another application server, but the new location must be accessible by URL.

---

---

**Note:** Do not place your custom help directory in the same directory where the Oracle-provided online help is installed:

```
ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\  
olsardc\rdconsite\
```

This directory may be overwritten by subsequent upgrades or patches.

---

---

## 11.2.2 Identifying Individual Topic Files

The RDC Onsite online help system does not use file names in its context calls. Therefore, the most reliable method for identifying a topic's file name is to invoke the topic from RDC Onsite and then open the Properties dialog box.

**To identify the file name of a help topic:**

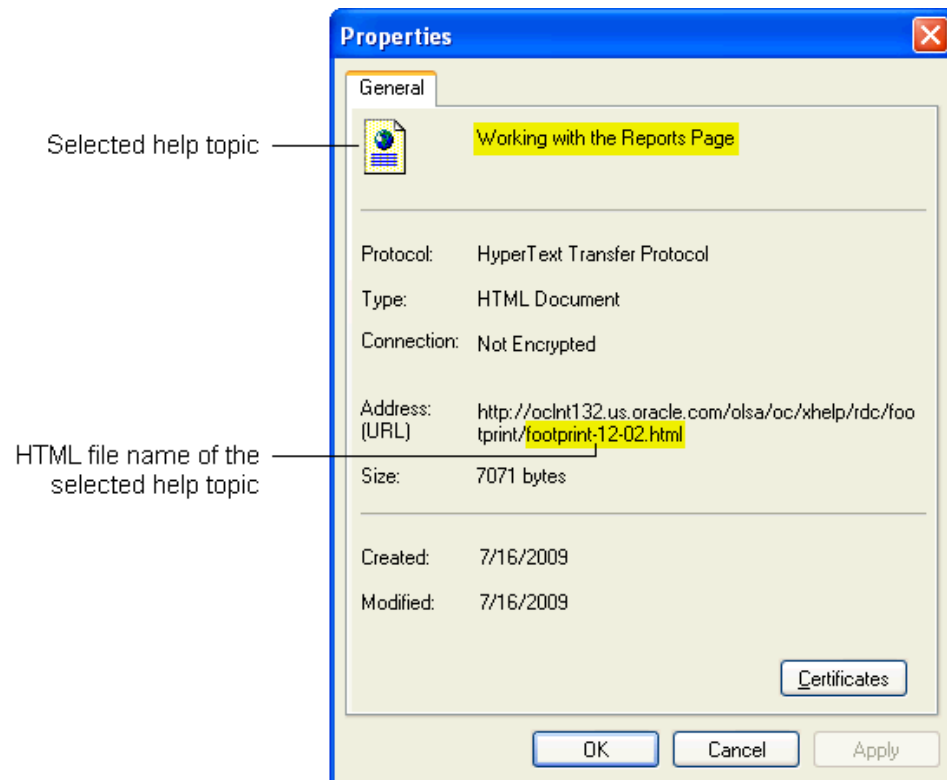
1. Open RDC Onsite to the feature you are documenting.
2. Click **Help** to open the help topic in a new browser window.
3. Right-click the topic area of the window, and then select **Properties**.
4. Note the address listed in the Address (URL) field. The file name for the selected topic is located at the end of the URL address as *filename.html*. See [Figure 11-2](#).

---

**Note:** Be careful to immediately identify the topic file after you open it from RDC Onsite. If you use the help system's navigation aids to browse, you might open another topic file instead of the topic file you want to edit.

---

**Figure 11–2 Identifying the File Name of Individual Help Topics**



### 11.2.3 Modifying the Topic Text

To modify the text for an online help topic:

1. Navigate to the directory location of your customized online help files.
2. Open the file that you identified as the HTML file associated with the topic you want to modify.
3. Edit the text.
4. Save your changes.

When modifying a help topic, keep the following issues in mind to ensure that you retain RDC Onsite's context-sensitivity:

- Do not change header content, file names, anchors, or other metadata. The topic files include metadata identifiers for the context calls from RDC Onsite and for navigating and searching. Changing this metadata may break the context calls from the application or the system's navigation aids.
- Save the file with the same name and to the same relative location.

## 11.2.4 Diverting the Help Call to a Custom Location

When a user clicks **Help** in RDC Onsite, the application constructs a URL based on the current session and the default installation location of the online help system.

To divert the help call to the custom location you created in [Section 11.2.1](#), you edit the `OPA_DOC_DIR` parameter in the `web.xml` file.

**To divert the help call to a custom location:**

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:

```
ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\
rdconsite\WEB-INF
```

4. Open the **web.xml** file with a text editor.
5. Find the following lines in the file:

```
<context-param>
  <param-name>OPA_DOC_DIR</param-name>
  <param-value></param-value>
</context-param>
```

6. Insert the location of your customized online help files. The syntax of the location is as follows:

```
http://help_doc_hostname/directory_name/xhelp
```

---



---

**Note:** Do not add a slash (/) to the end of the URL. RDC Onsite adds a slash and several parameters to the URL to open the file.

---



---

7. Save your changes.
8. Restart the **rdc OC4J** instance.

---



---

**Note:** If you do not specify a location for the `OPA_DOC_DIR` parameter, RDC Onsite opens the topic files in the default installation location.

---



---

## 11.3 Defining Help for CRFs

To enter and update data in a CRF, users open the CRF in a Data Entry window. By default, the Data Entry window does not display the Help icon in its toolbar.

RDC Onsite adds the Help icon to the toolbar only if you create the context-sensitive help that displays when the user clicks the icon.



To create custom help text for the Help icon, you use the Maintain Links form in the RDC Administration application. For more information, see [Section 10.6, "Defining a Link for CRF Help."](#)



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## Configuring Settings for Reports

This chapter includes the following topics:

- [Defining Settings for the Patient Data Report](#)
- [Customizing Bookmark Labels](#)
- [Printing Left Default Prompts for Repeating Response Fields](#)

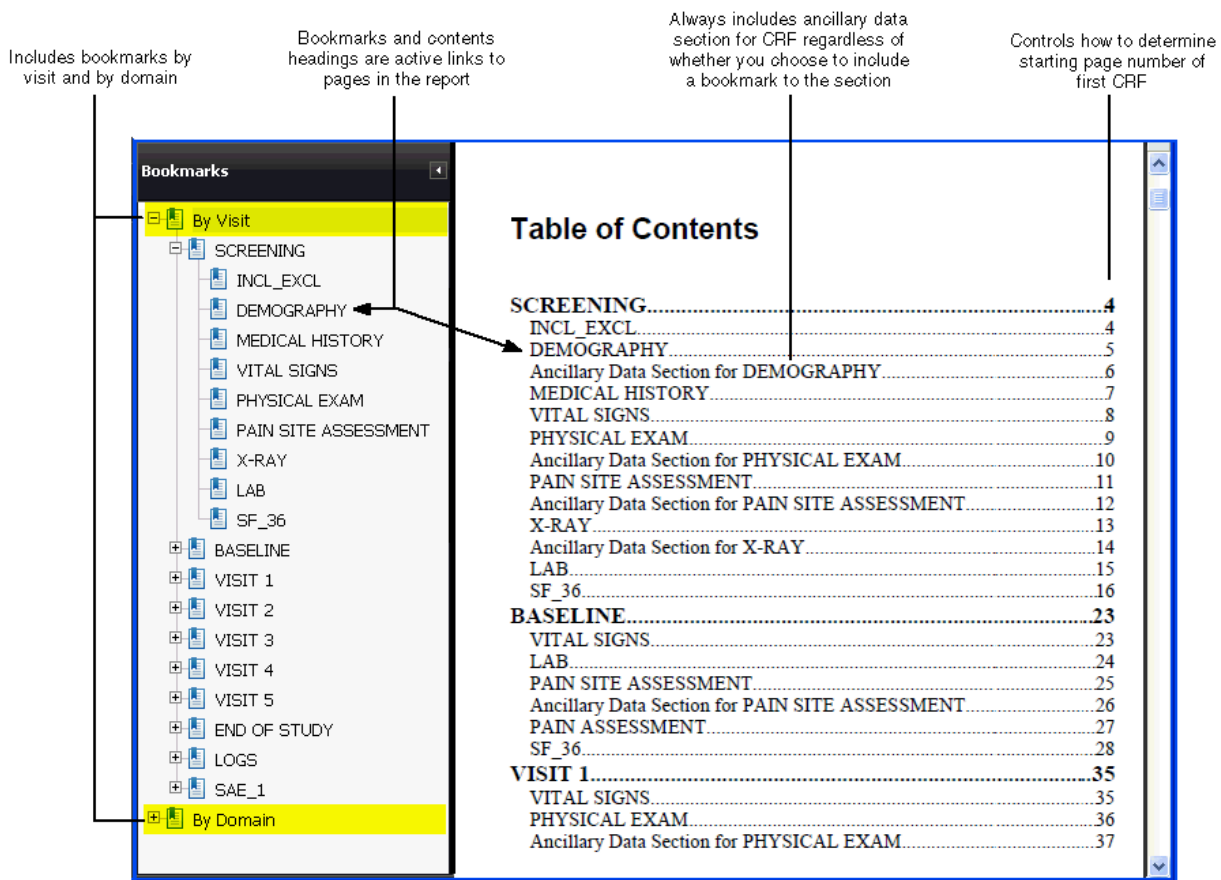
## 12.1 Defining Settings for the Patient Data Report

Using Oracle Clinical, you can configure several settings that control what information is included in a Patient Data Report. You can control:

- Bookmarks in the PDF report file
- Whether to include the approval information for a CRF, the audit history for fields not displayed in the CRF, and the overflow text for hidden protected repeating defaults
- Whether the pages in the table of contents and the cover page are counted when determining the starting page number for the CRFs

The system automatically generates a Table of Contents (TOC) for every report. When you open and view the report, you can click a heading on the Table of Contents pages to go to the selected CRF. The headings, like the bookmarks, are active links to the CRFs.

**Figure 12–1 Sample Patient Data Report**



## 12.1.1 Defining the Configuration Settings for the Patient Data Report

In Oracle Clinical, you can define the configuration settings for the Patient Data Report at the database level or at the study level:

- **At the database level**, the Patient Data Report settings define the default values when a new study is created. For each setting, you can choose to enforce the default value across all studies in the database or allow modification at the study level. You define the default values in the DCI Form Local Database Settings form.
- **At the study level**, the Patient Data Report settings control the output of the Patient Data Report. You can define all settings at the study level except the **PDR Bookmark Data Domain** setting.

### 12.1.1.1 Defining Report Settings at the Database Level

To define the Patient Data Report settings at the database level:

1. Open Oracle Clinical.
2. Navigate to **Admin** and select **DCI Form Local Database Settings**.
3. Expand the **Patient Data Report** node.

Setting	Value	Enforce Local DB Setting
+ Graphic Layout Editor/Updater		<input type="checkbox"/>
+ Graphic Layout Generator - General		<input type="checkbox"/>
+ Graphic Layout Generator - DCMS		<input type="checkbox"/>
+ DCI Form Generation Defaults		<input type="checkbox"/>
+ Default Settings for Showing DCM Header Fields		<input type="checkbox"/>
+ Default DCM Header Field Prompts		<input type="checkbox"/>
+ Version Migration		<input type="checkbox"/>
- Patient Data Report		<input type="checkbox"/>
Bookmark Ancillary Data Section	N	<input type="checkbox"/> LOV
Bookmark Subevents	Y	<input type="checkbox"/> LOV
Bookmark Title for Ancillary Data Section	Ancillary Data Section	<input type="checkbox"/>
Exclude Overflow for hidden Protected Repeating De	N	<input type="checkbox"/> LOV
Include Approval Information	N	<input type="checkbox"/> LOV
Include Audit History for fields not displayed in CRF	N	<input type="checkbox"/> LOV
Include TOC in Page Numbering	Y	<input type="checkbox"/> LOV
PDR Bookmark Data Domain	DCI	<input checked="" type="checkbox"/> LOV
+ Validation		<input type="checkbox"/>

4. Change the value of the settings you want. See [Table 12-1](#) for a description of each setting.
5. Select the **Enforce Local DB Setting** check box to always use this value as the default value.

If not selected, a user who has privileges to the DCI Form Study Database Settings form at the study level can override the default values.

Note that the **Enforce Local DB Setting** check box is always selected for the PDR Bookmark Data Domain setting because you cannot change its value at the study level.

6. Save your changes.

### 12.1.1.2 Defining Report Settings at the Study Level

To define the Patient Data Report settings at the study level:

1. Open Oracle Clinical.
2. Navigate to **Design** and select **DCI Form Local Study Settings**.
3. Expand the **Patient Data Report** node.
4. Deselect the **Inherit From Local DB Setting** check box for any value you want to change.
5. Change the value of the settings you want. See [Table 12-1](#) for a description of each setting.
6. Save your changes.

## 12.1.2 About the Patient Data Report Settings

[Table 12-1](#) describes the settings that you can use to control the output of the Patient Data Report.

**Table 12-1 Settings for the Patient Data Report**

Setting	Description
Bookmark Ancillary Data Section	<p>Specifies whether to create bookmarks for the Ancillary Data section associated with a CRF.</p> <ul style="list-style-type: none"> <li>■ Set to <b>Y</b> to create bookmarks for the sections. When you open and view the report, you can click the bookmark to go directly to the Ancillary Data section for a CRF.</li> <li>■ Set to <b>N</b> to output no bookmarks for the Ancillary Data sections.</li> </ul> <p>Note that the Patient Data Report always includes the Ancillary Data section for a CRF regardless of whether you choose to bookmark the section.</p> <p>If you choose to bookmark the section, you can specify the title of the bookmark by entering text in the <b>Bookmark Title for Ancillary Data Section</b> setting.</p>
Bookmark Subevents	<p>Specifies whether to create bookmarks for the subevents of a visit.</p> <ul style="list-style-type: none"> <li>■ Set to <b>Y</b> to creates a bookmark that provides navigation to the first CRF for the subevent.</li> <li>■ Set to <b>N</b> to output no subevent bookmarks. If set to <b>N</b>, the CRFs in the report are still ordered by Visit and Subevent, but the subevents do not appear as separate bookmarks.</li> </ul>
Bookmark Title for Ancillary Data Section	<p>Specifies the title to use for the bookmarks to the Ancillary Data sections of the CRFs. To create the bookmark, RDC Onsite appends your specified title to the name of any CRF that has an associated Ancillary Data section.</p> <p>Bookmark Format: <i>Bookmark-title for CRF-name</i></p> <p>Example: Ancillary Data Section for DEMOGRAPHY</p> <p>This setting is valid only if the <b>Bookmark Ancillary Data Section</b> setting is set to <b>Y</b>. The default value is <b>Ancillary Data Section</b>.</p>

**Table 12–1 (Cont.) Settings for the Patient Data Report**

Setting	Description
Exclude Overflow for Hidden Protected Repeating Default	<p>Specifies whether the report excludes the overflow text for all repeating default questions that are hidden.</p> <ul style="list-style-type: none"> <li>■ Set to <b>Y</b> to exclude the overflow text for all repeating questions that are hidden.</li> <li>■ Set to <b>N</b> to include the overflow text in the Ancillary Data section for the CRF.</li> </ul> <p>Note: If the CRF response field for a protected repeating default is less than one character long <i>and</i> you generate the report from the command line <i>and</i> this value is set to <b>Y</b>, the Ancillary Data section does not list the values for the response field. By using this combination, you can hide certain fields in a CRF.</p>
Include Approval Information	<p>Specifies whether to include CRF approval information.</p> <p>If set to <b>Y</b>, the Ancillary Data section for each approved CRF includes the following information:</p> <ul style="list-style-type: none"> <li>■ A statement that the CRF was approved</li> <li>■ The user name of the individual who approved the CRF</li> <li>■ The data and time of the approval</li> </ul> <p>If the CRF is approved but has no other ancillary data, the Ancillary Data section for the CRF includes only the approval information.</p>
Include Audit History for Fields Not Displayed in CRF	<p>Specifies whether to include the audit history for CRF fields that are not displayed in the CRF.</p> <ul style="list-style-type: none"> <li>■ Set to <b>Y</b> if you want the Ancillary Data section of a CRF to include the audit history information for any field that does not display on the CRF. This audit information is at the end of the Ancillary Data section and is not attached to a superscript on the CRF.</li> <li>■ Set to <b>N</b> to exclude the audit history for fields not displayed on the CRF.</li> </ul> <p>One example of how CRF data is collected but not displayed on the CRF is the Blank Flag icon. In certain circumstances, RDC Onsite users may need to mark a CRF as intentionally blank; for example, if a patient fails to appear for a scheduled visit. Users can click the Blank Flag icon to mark a CRF as blank. RDC Onsite keeps an audit history of all changes to a CRF.</p> <p>This setting has effect only if you select the <b>Include Audit History</b> check box when generating the Patient Data Report from the Reports page in RDC Onsite or if you specify the <b>-aud</b> parameter when generating the report from the command line.</p>
Include TOC in Page Numbering	<p>Determines how RDC Onsite calculates the starting page number for the CRFs listed in the Table of Contents (TOC).</p> <ul style="list-style-type: none"> <li>■ Set to <b>Y</b> to count the cover page and the TOC pages when calculating the page numbers listed in the TOC. For example, suppose the report has a cover page and a two-page TOC. If set to <b>Y</b>, then the TOC lists the first CRF on page 4 of the report. See <a href="#">Figure 12–1</a> for an example.</li> <li>■ Set to <b>N</b> to ignore the cover page and the TOC pages. The TOC lists the first CRF on page 1 of the report.</li> </ul>

**Table 12–1 (Cont.) Settings for the Patient Data Report**

Setting	Description
PDR Bookmark Data Domain	<p>Specifies whether to consider the DCI or the DCM as the data domain for the purpose of creating the bookmarks. For the report, the system generates two sets of bookmarks: By Visit and By Domain. See <a href="#">Figure 12–1</a> for an example of these bookmarks.</p> <ul style="list-style-type: none"> <li>■ Select DCI if you want to consider each DCI a data domain for the purpose of creating the bookmarks.</li> <li>■ Select DCM if you want to consider each DCM a data domain for the purpose of creating the bookmarks.</li> </ul> <p>You can configure this setting only at the database level. Note that the <b>Enforce Local DB Setting</b> check box is always selected for the PDR Bookmark Data Domain setting because you cannot change its value at the study.</p>

## 12.2 Customizing Bookmark Labels

The RDC Client package contains PL\*SQL procedures that you can modify to change the labels for the Domain and Visit bookmarks:

- DCI bookmark label
- DCM bookmark label
- Visit bookmark label

For details on changing these labels, see [Chapter 7, "Working with the RDC Client Package."](#)

## 12.3 Printing Left Default Prompts for Repeating Response Fields

When you setup and define DCM questions in Oracle Clinical, you can define repeating default values for repeating question groups.

To print left repeat default prompts for each repeating response in a CRF:

1. Enter the default response prompt when you define the DCM question in a DCM.
2. Select **Left** as the prompt position when defining the DCM question group.

Once defined in Oracle Clinical, RDC Onsite automatically includes the default repeat prompts for all defined responses to print (and display) in the DCM question group in the CRF:

- When you print a Blank Casebook Report
- When you open a new blank CRF in RDC Onsite

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## Generating Reports from the Command Line

In the RDC Onsite application, you can use the Reports page to define report parameters, and generate Patient Data Reports and Blank Casebook Reports. In addition, RDC Onsite includes a DOS command-line interface for generating either a Patient Data Report or a Blank Casebook Report from the command line.

Generating reports from the command line can be useful when producing electronic submissions for new drug applications (NDAs). Adding the commands to a batch file lets you generate many Patient Data Reports at once.

This chapter includes the following topics:

- [Configuring Desktop PDR for Report Generation](#)
- [Generating a Patient Data Report from the Command Line](#)
- [Generating a Blank Casebook Report from the Command Line](#)
- [File Names for Reports Generated from the Command Line](#)

## 13.1 Configuring Desktop PDR for Report Generation

For every desktop where a user must be able to generate Patient Data Reports or Blank Casebook Reports from the command line, you must:

- Install the Java Runtime Environment (JRE), Version 1.4
- Copy the desktoppdr folder and files to the appropriate location on each desktop
- Copy the xdo.cfg file to the JRE installation folder, and then modify the file to define the location of the PC's Windows directory
- Edit settings in the RunPDR.cmd file and the RunBlankCasebook.cmd file to configure the user's environment

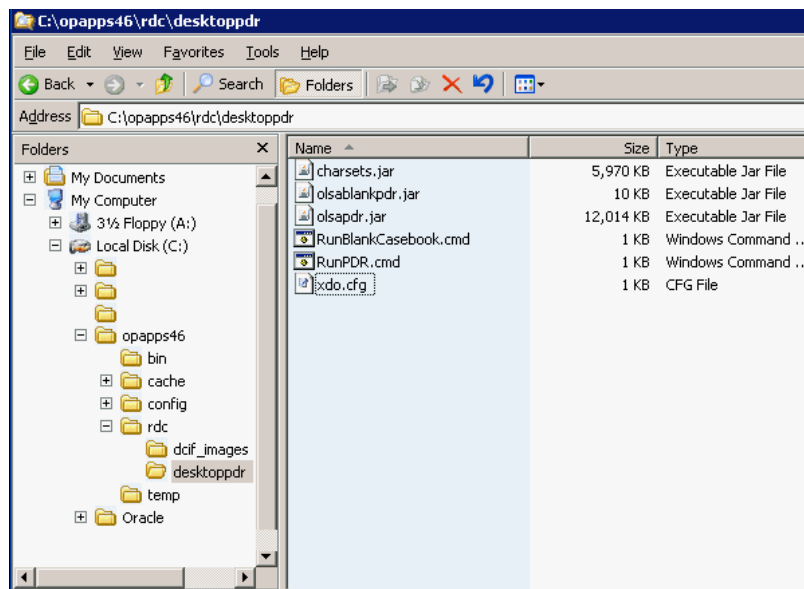
### 13.1.1 Contents of the desktoppdr Folder

During the installation of Oracle Clinical, the system creates a **desktoppdr** folder in the installation directory.

The desktoppdr folder has the following files:

- **charsets.jar**, **olsablankpdr.jar**, and **olsapdr.jar** — Java ARchive (JAR) files containing the required class files for generating Patient Data Reports and Blank Casebook Reports.
- **RunBlankCasebook.cmd** — Command file used to generate a Blank Casebook Report from the command line.
- **RunPDR.cmd** — Command file used to generate a Patient Data Report from the command line.
- **xdo.cfg** — Configuration file with information about the Arial font generation in the reports.

**Figure 13–1** Sample PC Desktop Showing the desktoppdr Folder





### 13.1.2 Installing the Java Runtime Environment

You must install the Java Runtime Environment (JRE) onto the PC desktop if it is not already installed.

You can download the JRE from the Sun Microsystems website at this URL:

[http://java.sun.com/products/archive/j2se/1.4.2\\_11/index.html](http://java.sun.com/products/archive/j2se/1.4.2_11/index.html)

### 13.1.3 Copying the Files in the desktoppdr Folder

Copy the desktoppdr folder and its files to the RDC directory on your PC desktop. For example:

`C:\opapps46\rdc`

In addition, you need to copy the xdo.cfg file from the desktoppdr folder to the directory where you installed the JRE. For more information, see [Section 13.1.4, "Copying and Modifying the xdo.cfg File."](#)

### 13.1.4 Copying and Modifying the xdo.cfg File

The xdo.cfg file stores system information about the Arial font, which is the font used by the Patient Data Report and the Blank Casebook Report.

During the installation of the Report Server component of Oracle Clinical, the system automatically creates and copies the xdo.cfg file to the following location:

`RS_Install_Directory/jdk/jre/lib`

In addition, any PC that will be used to generate reports from the command line must have a copy of the xdo.cfg file in the JRE installation directory on the desktop. You must also edit the file to define the location of the Windows directory.

**To copy and modify the xdo.cfg file:**

1. Copy the **xdo.cfg** file to the following directory where you installed the JRE on your PC desktop:

`JRE_Install_Directory/jdk/jre/lib`

2. Open the **xdo.cfg** file with a text editor.

3. Locate the following two lines in the file:

```
<truetype path="%OUI_WIN_DIR%\fonts\Arial.ttf" />
```

```
<truetype path="%OUI_WIN_DIR%\fonts\arialbd.ttf" />
```

4. Replace each occurrence of the %OUI\_WIN\_DIR% variable with the location of the Windows directory on your PC.

For example:

```
<truetype path="C:\WINDOWS\fonts\Arial.ttf" />
```

## 13.1.5 Modifying the RunPDR.cmd File

To modify the RunPDR.cmd file:

1. Navigate to the **desktoppdr** folder on your PC.
2. Open the RunPDR.cmd file with a text editor.
3. Modify the following lines in the file:
  - a. **set JAVA\_CMD** to the directory path where you installed the JRE. For example:

```
set JAVA_CMD=C:\Progra~1\Java\jre\bin\java
```
  - b. **set JAR\_PATH** to the directory path where you installed the JAR files (charsets.jar, olsapdr.jar, and olsablankpdr.jar). For example:

```
set JAR_PATH=C:\OLSAPDR
```
  - c. **set DB\_CONNECT\_STRING** in the following format to specify the database connection:

```
host-name:port-number:database-sid
```

For example, if you have a database with sid, **proddb**, that is installed on the **prodserver** host machine at port number **1532**, then you define your database connection string as follow:

```
set DB_CONNECTION=prodserver:1532:proddb
```
  - d. In the command line, add the **-Xms** and the **-Xmx** options to set the initial and maximum amount of memory for the report generation. For example:

```
%JAVA_CMD% -classpath %CLASSPATH% -Xms64M -Xmx512M %JAV...
```

For more information on these options, see [Section 13.1.7, "Adjusting the Heap Size for the Java Virtual Machine \(JVM\)."](#)
4. Save your changes.
5. Copy and rename the RunPDR.cmd file for every database that your users need to connect to and access. For example, if your users need to connect to a *production* database and a *test* database, create the following two new files: RunPDRprod.cmd and RunPDRtest.cmd.
6. Open each copy of the RunPDR.cmd file.
  - a. Modify the **set DB\_CONNECT\_STRING** parameter for each database connection.
  - b. Save your changes.

## 13.1.6 Modifying the RunBlankCasebook.cmd File

To modify the RunBlankCasebook.cmd file:

1. Navigate to the **desktoppdr** folder on your PC.
2. Open the RunBlankCasebook.cmd file with a text editor.
3. Modify the following lines in the file:
  - a. **set JAVA\_CMD** to the directory path where you installed the JRE. For example:

```
set JAVA_CMD=C:\Progra~1\Java\jre\bin\java
```
  - b. **set JAR\_PATH** to the directory path where you installed the JAR files (charsets.jar, olsapdr.jar, and olsablkpdr.jar). For example:

```
set JAR_PATH=C:\OLSAPDR
```
  - c. Use the following lines to specify the database connection:

```
set HOST=host-name
set PORT=port-number
set SID=database-sid
```
  - d. In the command line, add the **-Xms** and the **-Xmx** options to set the initial and maximum amount of memory for the report generation. For example:

```
%JAVA_CMD% -classpath %CLASSPATH% -Xms64M -Xmx512M %JAV...
```

For more information on these options, see [Section 13.1.7, "Adjusting the Heap Size for the Java Virtual Machine \(JVM\)."](#)
4. Save your changes.
5. Copy and rename the RunBlankCasebook.cmd file for every database that your users need to connect to and access. For example, if your users need to connect to a *production* database and a *test* database, create the following two new files:
  - RunBlankCasebookprod.cmd
  - RunBlankCasebooktest.cmd
6. Open each copy of the RunBlankCasebook.cmd file.
  - a. Modify the **set HOST**, **set PORT**, and **set SID** parameters for each database connection.
  - b. Save your changes.

## 13.1.7 Adjusting the Heap Size for the Java Virtual Machine (JVM)

Report generation may fail with an `OutOfMemoryError` message. This failure occurs when the Java program needs more memory than the amount currently allocated. As the number of pages in the Patient Data Reports and the Blank Casebook Reports increases, you may need to increase the JVM heap size accordingly.

To support large reports, use the following JVM options to specify the heap size:

- Use the `-Xms` option to set the initial amount of memory allocated for the program.
- Use the `-Xmx` option to set the maximum amount of memory that can be allocated for the program.

As a benchmark, Oracle has successfully generated a 4000-page report with an allocation of 512M.

### 13.1.7.1 Adjusting JVM Heap Size Options for the Desktop

To adjust the heap size available for reports generated from the command line, you need to modify the `RunPDR.cmd` file (for Patient Data Reports) and the `RunBlankCasebook.cmd` file (for Blank Casebook Reports).

To adjust the heap size in the files:

1. Open the `RunPDR.cmd` file or the `RunBlankCasebook.cmd` file.
2. Locate the following line in the file:

```
%JAVA_CMD% -classpath %CLASSPATH% ...
```

3. Add the `-Xms` and `-Xmx` options to the line. For example:

```
%JAVA_CMD% -classpath %CLASSPATH% -Xms64M -Xmx512M %JAVA...
```

Substitute the 64M value for the initial amount of memory to allocate, and the 512M value for the maximum amount of memory to allocate.

4. Save your changes.

### 13.1.7.2 Adjusting JVM Heap Size Options on the Report Server

To adjust the heap size available to reports generated from either the RDC Onsite or the Oracle Clinical applications:

1. Log in to the Oracle Enterprise Manager 10g Application Server Control.
2. Click the name of the Reports Server (for example, `oclw2k36`) in the System Components table.
3. Click the **Configuration** link in the Administration section. The system opens the Configuration page and displays the Reports Engine Parameters section.

## Reports Engine Parameters

* Engine ID	<input type="text" value="rwEng"/>	
Classpath	<input type="text"/>	
* Initial Engines (initEngine)	<input type="text" value="1"/>	
* Maximum Engines (maxEngine)	<input type="text" value="1"/>	
* Minimum Engines (minEngine)	<input type="text" value="0"/>	
* Maximum Jobs Before Shutdown (engLife)	<input type="text" value="50"/>	
* Maximum Idle Before Shutdown (maxIdle) (minutes)	<input type="text" value="30"/>	
JVM Option	<input type="text"/>	Use this field to specify the values for the JVM heap size

- Click the **JVM Option** field. Set the appropriate values for the JVM heap size options as follows:  
**-Xms64M -Xmx512M**  
 Substitute the 64M value for the initial amount of memory to allocate, and the 512M value for the maximum amount of memory to allocate.
- Click **OK** to save your changes. The system prompts for confirmation to restart the Reports Server now.
- Click **Yes**. You must restart the Reports Server before your changes to the JVM heap size will take effect.

When the system confirms that the Reports Server has been restarted, click **OK**.

## 13.2 Generating a Patient Data Report from the Command Line

You can generate a Patient Data Report by issuing the RunPDR command from the Microsoft Windows command line.

You enter the RunPDR command in the following format:

```
RunPDR.cmd -st study [-si study_site] [-p patient] [-bk DCI_Book]
-l folder_location -u user [-pw password] [-aud] [-disc] [-debug] [-trace] [-nobm]
[-o orientation] [-test]
```

### 13.2.1 Displaying the Command Syntax

To display the syntax for the command:

- Type **RunPDR** on the command line.
- Press **Enter**.

### 13.2.2 Parameters for the RunPDR Command

Table 13–1 describes the required and optional parameters for the RunPDR command.

**Table 13–1 Parameters for the RunPDR Command**

Parameter	Required?	Description
<b>-st</b> <i>study</i>	Yes	Runs the Patient Data Report for the specified study. The system produces a separate PDF report file for each patient.
<b>-si</b> <i>study_site</i>	No	Runs a report for all patients currently assigned to the specified study site. If you do not specify a site, the system runs the report for all patients assigned to those study sites that your user role has privileges to access. The system produces a separate PDF report file for each patient.
<b>-p</b> <i>patient</i>	No	Runs a report for the specified patient only. If you do not specify a patient, the system runs a report for all patients in the specified study and sites.
<b>-bk</b> <i>DCI_Book</i>	No	Denotes the DCI Book (casebook) to use for any CRF that was not entered against a casebook. Note that: <ul style="list-style-type: none"> <li>■ If you do not specify this parameter and a CRF was not entered against a DCI Book, the system uses the casebook assigned to the patient.</li> <li>■ If no casebook is assigned to the patient, the system uses the default casebook for the study.</li> <li>■ If no default casebook exists for the study, the system uses the first active DCI Book, in alphabetical order, for the study.</li> </ul>
<b>-l</b> <i>folder_location</i>	Yes	Specifies the directory where the system saves the PDF file created for each report, and the log files created during the generation of the report.  In addition, the system uses this directory to write the debug information if you include the <b>-debug</b> parameter on the command line. The directory that you specify must already exist. If the directory does not exist, the command fails and displays an error message that the folder is invalid.
<b>-u</b> <i>user</i>	Yes	Specifies your user name for logging in to the Oracle Clinical database.
<b>-pw</b> <i>password</i>	No	Specifies your password for logging in to the Oracle Clinical database. When you use this parameter, your password is visible on the screen.  If you do not use this parameter, the system prompts you for your password. Asterisks mask your password as you type it. For security reasons, Oracle recommends that you do not specify your password directly on the command line.
<b>-aud</b>	No	Includes audit information in the report.
<b>-disc</b>	No	Includes discrepancy information in the report.
<b>-debug</b>	No	Leaves data in temporary tables and outputs files to the directory that you specified with the <b>-l</b> <i>folder_location</i> parameter. This data is useful when working with customer support to debug an issue. After you resolve the issue and the debug information is no longer necessary, be sure you truncate the temporary <code>pdr_temp</code> and <code>pdr_superscripts</code> tables.
<b>-trace</b>	No	Turns on database trace and creates a trace file during the execution of the report. Trace data is useful when debugging performance problems. The system saves the trace file in the directory specified in the <code>init.ora</code> file of the database. Check with your database administrator for the location.
<b>-nobm</b>	No	Does not create the bookmarks or a table of contents for the report.
<b>-o</b> <i>orientation</i>	No	Denotes the orientation of the pages in the cover, table of contents, ancillary data sections, and appendixes. Valid entries are:  P = portrait (default) L = landscape
<b>-test</b>	No	Runs the report in test mode for test data. The report uses provisional DCI form versions in place of active ones when the provisional versions exist.

## 13.3 Generating a Blank Casebook Report from the Command Line

You can generate a Blank Casebook Report by issuing the `RunBlankCasebook` command from the Microsoft Windows command line.

You enter the `RunBlankCasebook` command in the following format:

```
RunBlankCasebook.cmd -st study [-p patient] -bk DCI_Book
-l folder_location -u user [-pw password] [-debug] [-trace] [-o orientation]
```

### 13.3.1 Displaying the Syntax for the RunBlankCasebook Command

To display the syntax for the command:

1. Type `RunBlankCasebook` on the command line.
2. Press **Enter**.

### 13.3.2 Parameters for the RunBlankCasebook Command

[Table 13–2](#) describes the required and optional parameters for the `RunBlankCasebook` command.

**Table 13–2** Parameters for the `RunBlankCasebook` Commands

Parameter	Required?	Description
<code>-st <i>study</i></code>	Yes	Specifies the name of the study to use for the generated report. <ul style="list-style-type: none"> <li>▪ If you do not include the <code>-p <i>patient</i></code> parameter, the system generates a Blank Casebook Report for the casebook defined in the <code>-bk <i>DCI_Book</i></code> parameter.</li> <li>▪ If you include the <code>-p <i>patient</i></code> parameter, the system generates a Blank Casebook Report that is specific to a particular patient.</li> </ul>
<code>-p <i>patient</i></code>	No	Specifies a unique patient number (ID). The system generates a Blank Casebook Report that is specific to the specified patient.
<code>-bk <i>DCI_Book</i></code>	Yes	Specifies the name of the DCI Book (casebook) to use for the generated report. Note that for a patient-specific report, this value may not match the casebook assigned to the specified patient.
<code>-l <i>folder_location</i></code>	Yes	Specifies the directory where the system saves the PDF file created for each report, and the log files created during the generation of the report. In addition, the system uses this directory to write the debug information if you include the <code>-debug</code> parameter on the command line. The directory that you specify must already exist. If the directory you specify does not exist, the command fails and displays an error message that the folder is invalid.
<code>-u <i>user</i></code>	Yes	Specifies your user name for logging in to the Oracle Clinical database.
<code>-pw <i>password</i></code>	No	Specifies your password for logging in to the Oracle Clinical database. When you use this parameter, your password is visible on the screen. If you do not use the <code>-pw</code> parameter, the system prompts you for your password. Asterisks mask your password as you type it. For security reasons, Oracle recommends that you do not specify your password directly on the command line.

**Table 13–2 (Cont.) Parameters for the RunBlankCasebook Commands**

Parameter	Required?	Description
<b>-debug</b>	No	Leaves data in temporary tables and outputs files to the directory that you specified with the <b>-l</b> <i>folder_location</i> parameter. This data is useful when working with customer support to debug an issue. After you resolve the issue and the debug information is no longer necessary, be sure you truncate the temporary <code>pdr_temp</code> and <code>pdr_superscripts</code> tables.
<b>-trace</b>	No	Turns on database trace and creates a trace file during the execution of the report. Trace data is useful when debugging performance problems. The system saves the trace file in the directory specified in the <code>init.ora</code> file of the database. Check with your database administrator for the location.
<b>-o orientation</b>	No	Denotes the orientation of the pages in the cover, table of contents, ancillary data sections, and appendixes. Valid entries are: P = portrait (default) L = landscape

## 13.4 File Names for Reports Generated from the Command Line

The output file name for the Patient Data Report and the Blank Casebook Report uses the following format:

**crf--STUDY--SITE--PATIENT.pdf**

where *STUDY*, *SITE*, and *PATIENT* are the study name, the site ID, and the patient number.

Example: `crf--demo2--a9898--b205.pdf`

---

**Note:** If you generate a Blank Casebook Report that is not specific to a patient, the PDF file name does not include the site and patient information. In this case, the output file name has this format:

**crf--STUDY.pdf**

---

### About the File Naming Conventions

The file naming conventions follow the PDF specifications defined by the United States Food and drug Administration (FDA).

- Use numeric and lowercase alphabetic characters.
- Use hyphens.
- Avoid using the underscore (`_`) character.

Note that RDC Onsite uses two hyphens (`--`) instead of the underscore character to separate the names of the study, site, and patient from each other.

If you use an underscore in the name of the study, site, or patient, RDC Onsite preserves those underscores in the output file name. For example:

`crf--demo_alpha--s2244--male_107.pdf`

- Do not use spaces, punctuation, or other non-alphanumeric symbols (for example, `\ / : * ? < > | " % # +`).

In addition, these naming conventions comply not only with the FDA guidelines, but also with Image Solutions eCTD Express tool for publishing eSubmissions.



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## Collecting Debug Data

If you encounter problems in RDC Onsite, Oracle Support may ask you to collect diagnostic information from the application. There are various diagnostics that can be enabled.

Oracle Support provides instructions on the traces you need to collect depending on the type of error you encounter. This chapter provides instructions on how to collect the various trace files and log files for analysis by Oracle Support.

This chapter includes the following topics:

- [Enabling a SQL Trace for Searches](#)
- [Displaying Document Numbers in the RDC Onsite Application](#)
- [Displaying Discrepancy IDs in the RDC Onsite Application](#)
- [Debugging the Patient Data Report](#)
- [Debugging the RDC Onsite Application](#)
- [Debugging Performance Issues in the Data Entry Window](#)

## 14.1 Enabling a SQL Trace for Searches

To enable a SQL trace for searches (queries) executed during a user session, add the **&sqlTrace=true** parameter to the URL that starts the RDC Onsite application.

For example:

`http://server.domain/olsa/oc/rdcLogin.do?event=doSetup&sqlTrace=true`

---

---

**Note:** If you need a SQL trace for the Data Entry window, you must enable the trace at the user level by a login trigger. Contact Oracle Support for instructions and assistance with this type of trace.

---

---

## 14.2 Displaying Document Numbers in the RDC Onsite Application

Several screens in the RDC Onsite application display the name of the a CRF (document) in the CRF Name column. Recall that the terms *CRF* (RDC Onsite) and *document* (Oracle Clinical) are synonyms and used interchangeably.

To assist you with debugging some errors, you can choose to display the document (CRF) number in addition to the document (CRF) name.

To display the document number, specify the **&display\_docnum=Y** parameter in the URL that starts the RDC Onsite application. For example:

`http://server.domain/olsa/oc/rdcLogin.do?event=doSetup&display_docnum=Y`

When you set the **&display\_docnum** parameter, the RDC Onsite application inserts a CRF Number column to the right of the CRF Name column:

- On the Review CRFs page
- On the Review Discrepancies page
- In the Discrepancy Details window
- On the Review Investigator Comments page

Configuring the **&display\_docnum** parameter is not dependent on enabling the debug feature for other modules.

## 14.3 Displaying Discrepancy IDs in the RDC Onsite Application

To display the discrepancy identifier (ID), add the following parameter to the URL that starts the RDC Onsite application:

`&display_descpId=Y`

For example:

`http://server.domain/olsa/oc/rdcLogin.do?event=doSetup&display_descpId=Y`

When you set the **&display\_descpId** parameter, RDC Onsite adds a Discr ID column to the Review Discrepancies page and the Discrepancy Details window. The Discr ID column displays to the right of the CRF Number column.

Configuring the **&display\_descpId** parameter is not dependent on enabling the debug feature for other modules.

## 14.4 Debugging the Patient Data Report

To enable the debugging feature for the Patient Data Report:

1. Log in to the Reports Server.
2. Stop the Reports Service.
3. Open the Windows Registry Editor:
  - a. Click **Start** and then select **Run**.
  - b. Type **regedit** and then click **OK**.
4. Navigate to the following location in the registry:  
HKEY\_LOCAL\_MACHINE\SOFTWARE\ORACLE\HOME
5. Find the registry key OC\_RPT\_DEBUG and set its value to **Y**.
6. Find the registry key OC\_RPT\_DEBUG\_TMP\_FOLDER. Set its value to the directory where RDC Onsite will create and store the temporary files for debugging the Patient Data Report. For better performance, Oracle recommends setting the value to a directory on the Reports Server.
7. Restart the Reports Service.
8. Submit the request to generate the Patient Data Report.

When you set OC\_RPT\_DEBUG = Y, RDC Onsite does not delete the records in the following temporary tables when it finishes generating the Patient Data Report:

- PDR\_TEMP
- PDR\_SUPERSCRIPTS
- PDR\_AUDIT\_TEMP

In addition, RDC Onsite does not delete the PDR temporary files stored in the directory defined by the OC\_RPT\_DEBUG\_TMP\_FOLDER registry key.

When you are finished debugging the Patient Data Report, be sure to turn off the report debugging feature so your system does not accumulate temporary tables and files for every Patient Data Report generated.

To disable the report debugging feature, return to the Windows Registry Editor and change the value of the OC\_RPT\_DEBUG key to **N**.

---

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**Note:** The jlog file is located in the user's Reports Server Log directory. RDC Onsite creates this file regardless of the value set for the OC\_RPT\_DEBUG registry key.

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## 14.5 Debugging the RDC Onsite Application

RDC Onsite provides the following logging files:

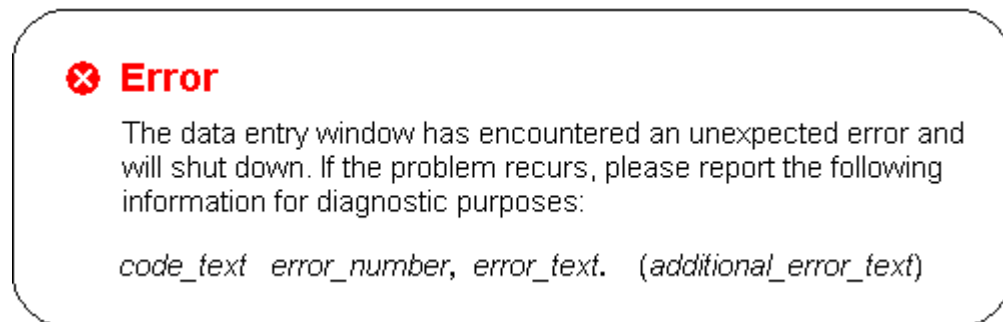
- **Application Pages Java Logs** — 1 per Java Virtual Machine (JVM) instance in OC4J. The default size is 10 MB, and the total log folder size is 100 MB.
- **Data Entry Java Logs** — 1 per JVM instance. These logs are subject to the same size limits as the logs for the application pages, unless you set up a separate log file for data entry. See [Section 14.5.2.1, "Changing the Location of the Data Entry Logs"](#) for more information.
- **Data Capture Logs** — 3 per Data Capture session. Note that due to DCAPI caching, the number of logs is not always related directly to the number of Data Entry windows the user opens. If a DCAPI instance is cached after the first window is closed and reused for another window, the log files will contain entries for the second window.

In addition to these session-based log files, the DCAPI framework generates two log files of its own. These files contain mainly logs from the framework code that launches and manages DCAPI instances. These log files are helpful for troubleshooting issues with launching data entry sessions.

- **Performance Profile Logs** — 1 per JVM instance.
- **Scalability Logs** — 1 set per JVM instance.

### 14.5.1 About the Error Messages in RDC Onsite

When an error occurs while working in the Data Entry window, RDC Onsite displays an error message in the following format:



[Table 14–1](#) describes the types of errors that can occur and the corresponding *error\_text* that displays with the message.

**Table 14–1** Errors and the Text Added to the Message

Type of Error	Text Added to the Message
Network drop, error from Internet Explorer, or error from the Application Server	<b>XMLHttp error code</b> <i>error_number</i> , ( <i>additional_error_text</i> ) Note that under most circumstances, RDC Onsite handles a momentary network drop, and displays a different message that presents a Retry option to the user. However, in some cases, a network drop results in the Data Entry window shutting down.
Error in the data entry code	<b>Log code</b> <i>error_number</i> , <b>internal error</b> .
Error in the DCAPI	<b>Log code</b> <i>error_number</i> , <b>data capture error</b> .

## 14.5.2 Locating the Log Files

RDC Onsite records all log information for both the application pages and the Data Entry window as part of the OC4J logs. You use the log files when debugging errors.

RDC Onsite stores these log files in the following directory on the application server:

`ORACLE_AS10GR2MT_HOME\j2ee\rdc\log\rdc_default_island_n\oc4j\log.xml`

where *n* is the process number (JVM instance number) for the OC4J instance.

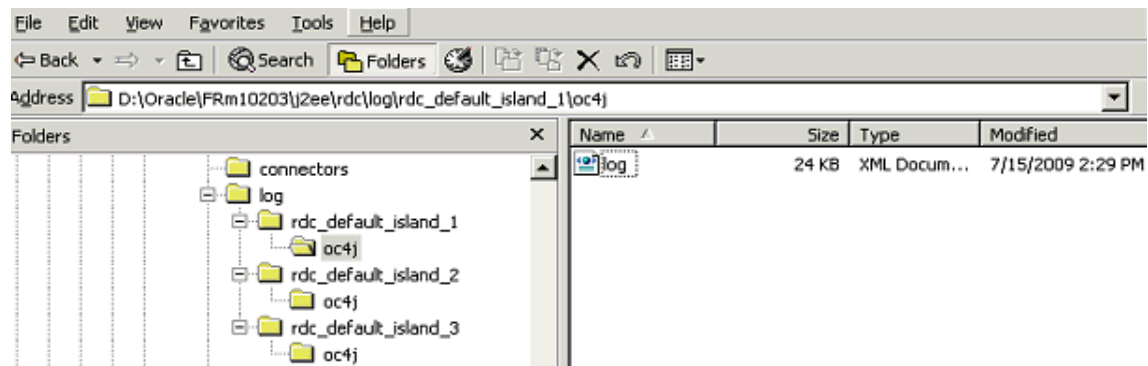
For example, if only one process is used to run the OC4J instance, the directory path is as follows:

`ORACLE_AS10GR2MT_HOME\j2ee\rdc\log\rdc_default_island_1\oc4j\log.xml`

In the case of multiple processes, you cannot tell where the user logs will be located because it depends on which process instance is serving the user.

Figure 14–1 shows a sample directory path for both the application pages and the data entry log files. In this example, the server is running RDC Onsite on three JVMs.

**Figure 14–1** Location of the RDC Onsite Log Files



### 14.5.2.1 Changing the Location of the Data Entry Logs

By default, the log files for data entry are recorded as part of the same OC4J logs as the RDC Onsite application pages. These log files are in the same directory location on the application server.

Alternatively, you can change the default location of the data entry logs by modifying the `j2ee-logging.xml` file.

**To modify your configuration so RDC Onsite writes data entry logs to a different file:**

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:  
`ORACLE_AS10GR2MT_HOME\j2ee\rdc\config`
4. Open the **j2ee-logging.xml** file with a text editor.

5. Add a handler by inserting the following lines into the file:

```
<log_handler name='dataentryloghandler'  
class='oracle.core.ojdl.logging.ODLHandlerFactory'  
  <property name='path' value='%ORACLE_HOME%/j2ee/%OPMN_PROC_TYPE%/log/  
%OPMN_PROC_TYPE%_%OPMN_PROC_SET%_%OPMN_PROC_INDEX%/oc4j/de' />  
  <property name='maxFileSize' value='5242880' />  
  <property name='maxLogSize' value='104857600' />  
</log_handler>
```

6. Create a logger for data entry by adding the following lines to the file:

```
<logger name='oracle.pharma.rdc.de' level='NOTIFICATION:1'  
useParentHandlers='false'  
  <handler name='dataentryloghandler' />  
</logger>
```

7. Save your changes.
8. Restart the **rdc OC4J** instance.

Once you restart the rdc OC4J instance, RDC Onsite will record all data entry logs in the DE folder in the main log folder.

### 14.5.3 Setting the Log File Size and Number

The following XML property tags in the j2ee-logging.xml file control the log file size and number:

```
<property name='maxFileSize' value='10485760' />  
<property name='maxLogSize' value='104857600' />
```

The first property controls the size of each log file. The second property controls the total size of the log folder. Therefore, in the previous example, 10 files will be generated, each 10 MB in size for a total of 100 MB.

The latest log is always located in the log.xml file. When the maximum size is reached, RDC Onsite renames that file to log1.xml and records new logs into a new log.xml file. This renaming extends to log2.xml, log3.xml, and so on until the total size of the folder reaches the maxLogSize value defined in the j2ee-logging.xml file.

#### To set the log file size and number:

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:  
`ORACLE_AS10GR2MT_HOME\j2ee\rdc\config`
4. Open the **j2ee-logging.xml** file with a text editor.
5. Find the following lines and modify the values:  

```
<property name='maxFileSize' value='10485760' />  
<property name='maxLogSize' value='104857600' />
```
6. Save your changes.
7. Restart the **rdc OC4J** instance.

---



---

**Note:** If you use a separate log file data entry, the log files are subject to the sizes specified in the separate configuration for the data entry logs. See [Section 14.5.2.1, "Changing the Location of the Data Entry Logs"](#) for more information.

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## 14.5.4 Configuring the Level of Detail for Log Files

The logs for the RDC Onsite application pages have two levels only: enabled and disabled. Therefore, you do not need to define a level of detail for these log files. Note that RDC Onsite always logs exceptions and errors, even if logging is disabled.

You can, however, specify the detail level of the debugging information that RDC Onsite collects in the data entry logs. A finer level of detail can help you debug problems seen with data entry. To change the default level of details for the data entry logs, you modify the `dataentrylogger.properties` file on the application server.

**To configure the level of debug information to collect in the data entry logs:**

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:  
`ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\rdconsite\WEB-INF\`
4. Open the **dataentrylogger.properties** file with a text editor.
5. Locate the following line:  
`level=WARNING`

---



---

**Note:** The other settings in the file are for Oracle internal use only. Do not modify the other settings.

---



---

6. Change the value to one of the following levels: SEVERE, WARNING (default value), INFO, FINE, FINER, or FINEST.
7. Save your changes.
8. Restart the **rdc OC4J** instance.

## 14.5.5 Enabling the Logging of Debug Information

You can collect debug information for errors that occur when using any of the RDC Onsite application pages and when using the Data Entry window.

To collect this debug information, add the **&debug** parameter to your URL that starts the RDC Onsite application:

**&debug=module-name**

where *module-name* defines the type of debugging you want.

**Valid entries for *module-name*:**

- **surround** (only debugs errors pertaining to the application pages, such as the Home page, Casebooks page, and Review CRFs page)
- **de** (only debugs errors pertaining to the Data Entry window)
- **all** (debugs errors pertaining to both the application pages and the Data Entry window)

**General format of the URL:**

http://*server.domain*/olsa/oc/rdcLogin.do?event=doSetup&debug=*module-name*

**Examples:**

http://ORACLE.com/olsa/oc/rdcLogin.do?event=doSetup&debug=de

http://pharma1.usa.atlantic.com/olsa/oc/rdcLogin.do?event=doSetup&debug=all

## 14.5.6 Reviewing the Log Entries for the RDC Onsite Application Pages

RDC Onsite records all logs against a user identifier that consists of the user name, the database, and the HTTP Session ID.

[Example 14–1](#) shows a portion of a sample log from the RDC Onsite application pages. The actual log text is the text enclosed by the <MSG\_TEXT> tag.

**Example 14–1 Sample Log from RDC Onsite Application Pages**

```
<MESSAGE>
  <HEADER>
    <TSTZ_ORIGINATING>2009-07-15T14:27:57.968-07:00</TSTZ_ORIGINATING>
    <COMPONENT_ID>pharma</COMPONENT_ID>
    <MSG_TYPE TYPE="TRACE"></MSG_TYPE>
    <MSG_LEVEL>9</MSG_LEVEL>
    <HOST_ID>ap7010pha</HOST_ID>
    <HOST_NWADDR>140.87.92.79</HOST_NWADDR>
    <MODULE_ID>rdc.logging.RdcLogger</MODULE_ID>
    <THREAD_ID>13</THREAD_ID>
    <USER_ID>SYSTEM</USER_ID>
  </HEADER>
  <CORRELATION_DATA>

  <EXEC_CONTEXT_ID><UNIQUE_ID>5018554431287</UNIQUE_ID><SEQ>2</SEQ></EXEC_CONTEXT_ID>
  </CORRELATION_DATA>
  <PAYLOAD>

  <MSG_TEXT>[ops$user@database:e78e5b0fabf40558fdaa63b644191
eefef023608b49bcf0f8e3188f9d301258e] RdcLoginAction: Trying to obtain binding
container.</MSG_TEXT>
  </PAYLOAD>
</MESSAGE>
```

You can locate all the log entries for the user for a particular RDC Onsite session by searching for the session ID in the log file. As shown in [Example 14–1](#), the session ID is the alphanumeric string that follows the ops\$user@database information in the <MSG\_TEXT> tag.



## 14.5.7 Reviewing the Log Entries for Data Entry

RDC Onsite records all logs against a user identifier that consists of the user name, the database, and the HTTP Session ID.

To review the information in the data entry logs:

1. Locate and check the log files for the application pages. See [Section 14.5.6, "Reviewing the Log Entries for the RDC Onsite Application Pages"](#) for more information.
2. Use the same session ID to locate the data entry logs.

When the user opens a Data Entry window, RDC Onsite assigns a unique ID to the window. In addition, RDC Onsite creates a log entry against the user's HTTP session ID.

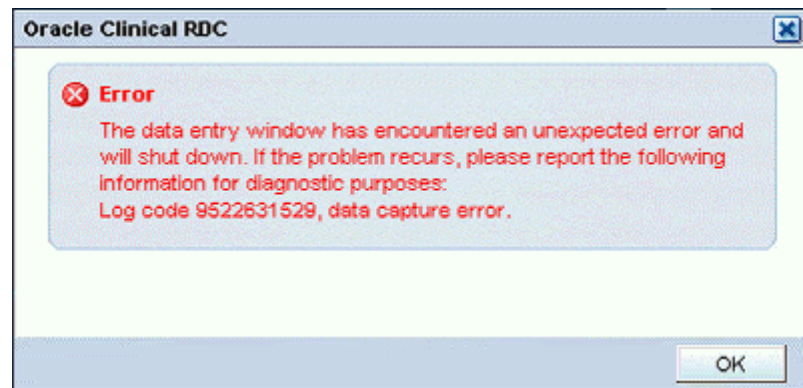
You can locate all data entry logs relevant to the user for the data entry session using the HTTP Session ID and the Window Context ID. The following example highlights these IDs in bold.

```
[9e46412a075dc5104ec7e9a06b704bbfb121525115d20e641d6835974ac786e8]
Window context Id for this CRF: 4750992751934458
```

## 14.5.8 Locating Log Files for a Fatal Failure during Data Entry

In the case of a fatal failure, RDC Onsite displays the error message and log code information. See [Figure 14–2](#).

**Figure 14–2 Fatal Error Dialog Box with Log Code information**



When the error occurs, the RDC Onsite user should record the log code number and the error text, and then report the information to you. For example:

**Log code 9522631529, data capture error.**

You can use the log code to search the log file and get more details on the error. Two important notes:

- The exact code can be in any one of the log files in the log folder.
- The particular log file that contains the log code may be deleted if you do not read the log within a reasonable time after the failure because the log size limits can force the logger to delete log files and create new files to accommodate new logs.

---

---

**Note:** In case of critical errors or failures in the Data Entry window, RDC Onsite automatically generates a log entry even if you did not enable logging from the URL. RDC Onsite users should always record the log code when the error occurs. Subsequently, you can use the log code to reference additional information about the error.

---

---

## 14.5.9 Data Capture API (DCAPI) Logs

Every data entry session is supported by a data capture engine running on the middle tier for that session. This engine consists of the following parts:

- A Java layer
- A process (olsadcapiservice.exe)
- A DLL (olsadcapi.dll) loaded by the process

Each part generates a log file when logging is enabled.

DCAPI log files contain internal technical messages that may be meaningful to Oracle support and development only.

### 14.5.9.1 Location of DCAPI Log Files

The DCAPI log files are located in the following directory:

*RDC\_HOME*\log

The name of these log files use the following format:

- **Java layer:** DcapiJava\_*user-name*\_*date-time*.dbg
- **Process layer:** DcapiExec\_*user-name*\_*date-time*.dbg
- **DLL layer:** DcapiHtml\_*user-name*\_*date-time*.dbg

where:

*user-name* is the user's login ID.

*date-time* is the date and time of the event. For example, 2009Aug15134550236.

### 14.5.9.2 Log Level for DCAPI Log Files

There are no log levels associated with DCAPI logs.

### 14.5.9.3 Enabling DCAPI Logging

DCAPI logging is automatically enabled whenever you enable logging for data entry.

### 14.5.9.4 Locating DCAPI Log Entries

The way to link DCAPI logs to your data entry session is by noting the user name and the approximate time when the data entry session started and then locating the log files in the *RDC\_HOME*\log directory.

## 14.5.10 Data Capture API (DCAPI) Framework Logs

You can enable RDC Onsite to generate DCAPI framework logs that capture logs from the common code that creates, manages, and closes DCAPI instances. The DCAPI generates two log files for each JVM instance running rdc OC4J service. These log files help when troubleshooting issues with launching data entry sessions.

**To enable DCAPI framework logging:**

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:

```
ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\
rdconsite\WEB-INF\
```

4. Open the **dcapi.properties** file with a text editor.
5. Find the following parameter and set the value to **1**:

```
frameworklog=1
```

6. Find the following parameter:

```
frameworkloglocation=
```

Specify the location for the DCAPI framework log files. For example, if you want the DCAPI to save the framework log files in the RDC log folder, set the parameter as follows:

```
frameworkloglocation=drive:\\RDC_HOME\log
```

Note that you must specify the double forward slash throughout the directory path. Otherwise, the Java APIs read the single slash as an escape character.

7. Save your changes.
8. Restart the **rdc OC4J** instance.

Once you log in to RDC Onsite and open a CRF, the DCAPI generates the framework log files and continuously adds logs to the files. The names for the framework log files use the following format:

- OHSА\_DCАPI\_Framework\_Java\_n.log
- OHSА\_DCАPI\_Framework\_Native\_n.log

where *n* is the JVM instance number. (If a single JVM is running the OC4J instance, then *n* is 1.)

## 14.5.11 Dump File for a Data Entry Fatal Failure Error

A fatal failure in a data entry session always generates a dump file on the middle tier that contains information relevant to the failure. This information will help Oracle support and developers troubleshoot issues.

### 14.5.11.1 Location of the Dump File

The name of the dump file uses the following format:

```
logcode.dump
```

where *logcode* is the log code that appears in the Data Entry window in case of a fatal failure.

RDC Onsite creates this file on the middle tier in the *RDC\_HOME\log* directory.

### 14.5.11.2 Enabling Dump File Creation

RDC Onsite always creates dump files in the case of a fatal failure in data entry, with or without logging enabled. However, it is helpful to Oracle support if you generate and gather more information by enabling logging for data entry. For critical errors, Oracle suggests that you set the data entry log level to FINEST, and then reproduce the failure to generate the maximum amount of log information.

### 14.5.11.3 Reading a Dump File

When a fatal failure occurs in a data entry session, the RDC Onsite user should note the log code and report it to you. You can use the log code to locate the dump file in the `RDC_HOME\log` directory.

The dump files has several key sections to help with troubleshooting.

As shown in [Example 14–2](#), the first long alphanumeric string in the first section provides the following important identifiers:

- The session ID for the user
- The user name and database
- The session ID for the Data Entry window where the failure happened
- The time stamp for the DCAPI log

#### **Example 14–2 Important Identifiers in the Dump File**

```
#Starting dump of context parameters for failureId: 9522631529
#-----
refids=0a957842231c103dc782a58e44a49c2089684b16a007,
ops$<user>@<database>,28905006072188144,2009Jul15161040954
```

You use the user's session ID, the user name, the database, and the window session ID to search the OC4J logs (log.xml) for all relevant entries. You use the time stamp to locate the DCAPI log files. See [Section 14.5.9, "Data Capture API \(DCAPI\) Logs"](#) for more information.

The next section of the log file lists the actual exception stack.

```
#-----
Exception Details:Error in DCAPI Module.
oracle.pharma.rdc.de.exception.FailedOperationException: Error in DCAPI Module.
    at
oracle.pharma.rdc.de.exception.FailedOperationException.<init>
(FailedOperationException.java:75)
    at
oracle.pharma.rdc.de.service.dcs.DciFormData.doFieldUpdate(DciFormData.java:6274)
.
.
.
```

The section that follows contains the JVM instance number serving the user. This number is important when OC4J is running in a multi-JVM environment because you can use the number to easily locate the OC4J log files.

```
#-----
jvmid=1
```

The remaining sections in the file provide the JVM parameters and environment, CRF, Study, Site, and other details that can aid in troubleshooting.

## 14.5.12 Viewing Additional Log Files of Interest

Table 14–2 lists the additional log files that Oracle Support may request when working with you to debug or troubleshoot an error. You do not need to configure any settings to generate these log files. RDC Onsite automatically creates these files on the application server and continuously collects debug information.

**Table 14–2 Additional Log Files for Oracle Support**

File Name	File Location
access_log	ORACLE_AS10GR2MT_HOME\Apache\Apache\logs
error_log	ORACLE_AS10GR2MT_HOME\Apache\Apache\logs

## 14.5.13 Comparison of the Log Files in RDC Onsite 4.6 and 4.5.3

Table 14–3 provides a mapping of the RDC Onsite 4.6 logs to their counterpart in RDC Onsite 4.5.3.

**Table 14–3 Comparison of the Log Files in RDC Onsite 4.6 and 4.5.3**

Log Files	Location
RDC Onsite application pages	<p><b>RDC Onsite 4.6</b> ORACLE_AS10GR2MT_HOME\j2ee\rdc\log\rdc_default_island_n\oc4j\log.xml where <i>n</i> is the JVM instance</p> <p><b>RDC Onsite 4.5.3</b> RDC_Home\log\RdcOnsite0.xml</p>
Data entry	<p><b>RDC Onsite 4.6</b> (if set up with the log files for the application pages) ORACLE_AS10GR2MT_HOME\j2ee\rdc\log\rdc_default_island_n\oc4j\log.xml</p> <p><b>RDC Onsite 4.6</b> (if set up separately) ORACLE_AS10GR2MT_HOME\j2ee\rdc\log\rdc_default_island_n\oc4j\de\log.xml where <i>n</i> is the JVM instance</p> <p><b>RDC Onsite 4.5.3</b> RDC_Home\log\delog0.log</p>
Data Capture API (Java Log)	<p><b>RDC Onsite 4.6</b> RDC_Home\log\DcapiJava_user-name_date-time.dbg</p> <p><b>RDC Onsite 4.5.3</b> RDC_Home\log\DcapiJava_user-name_number.dbg</p>
Data Capture API (Process Log)	<p><b>RDC Onsite 4.6</b> RDC_Home\log\DcapiExec_user-name_date-time.dbg</p> <p><b>RDC Onsite 4.5.3</b> RDC_Home\log\log-number.log</p>
Data Capture API (DLL Log)	<p><b>RDC Onsite 4.6</b> RDC_Home\log\DcapiHtml_user-name_date-time.dbg</p> <p><b>RDC Onsite 4.5.3</b> RDC_Home\log\DcapiPdf_user-name_number.dbg</p>

## 14.6 Debugging Performance Issues in the Data Entry Window

Performance profiling can provide Oracle Support with diagnostic information for all the activities that are conducted in the Data Entry window for a particular user session.

In addition to the log files for the application pages and for data entry, RDC Onsite lets you monitor performance in different parts of the code. RDC Onsite supports performance profiling for the data entry client and for the data entry server code.

### 14.6.1 Performance Profiling for the Data Entry Client

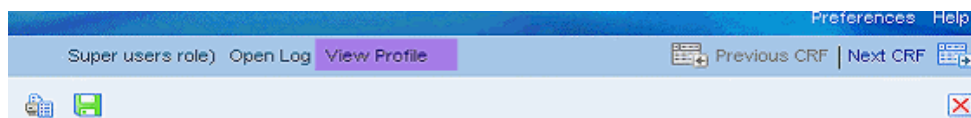
You can monitor the performance of specific requests from the data entry client user interface to get an overall idea of the time spent in different parts of the code.

**To profile a single user session:**

1. Start an RDC Onsite session using the following URL:

```
http://server.domain/olsa/oc/rdcLogin.do?event=doSetup&deparams=profile:1
```

2. Open a CRF where you are seeing the problem of interest. Note that because profiling is turned on, RDC Onsite adds the **View Profile** link to the session information line above the tool bar:



3. Execute the problematic scenario.
4. Click the **View Profile** link. RDC Onsite displays the *client* profile logs in a separate window. Note that the log shows the times spent on the client in different parts of the JavaScript code including network round-trip times.



5. Copy and paste information from the View Profile window into a text file that you can forward to Oracle Support. (This information is related only to actions around opening the CRF.)

6. Collect the log information and forward to Oracle Support. This includes:
  - a. Content of the View Profile windows that you copied into a text file.
  - b. Content of the *RDC\_HOME*\log\requestprofilelog.xml file located on the application server.

On the server side, RDC Onsite also creates a new log entry for the same request in the requestprofilelog.xml in the *RDC\_HOME*\log folder. This log entry breaks down the time spent on the server side for the same request in different parts of the code. For example:

```
<request id="1">
  <user>ops$user@database</user>
  <windowcontext>50645505678382780</windowcontext>
  <profiles>
    <profile name="generateRDciData">484</profile>
    <profile name="loadDciForm">156</profile>
    <profile name="cmdDocData">656</profile>
    <profile name="cmdPostInitialLoad">94</profile>
    <profile name="cmdGetSettings">94</profile>
    <profile name="cmdOpenConfirm">0</profile>
    <profile name="RuntimeController">922</profile>
  </profiles>
</request>
```

A combination of the client profile data and server profile data gives a complete picture of a request-response life cycle that originated from the data entry client code.

## 14.6.2 Performance Profiling for Data Entry Server Code

Another kind of profiling supported by the data entry code gives the average, minimum, and maximum times spent in specific portions of the server code over time and across multiple data entry users. All time values are in milliseconds.

### To enable server profiling:

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:  
*ORACLE\_AS10GR2MT\_HOME*\j2ee\rdc\applications\olsardc\rdconsite\WEB-INF

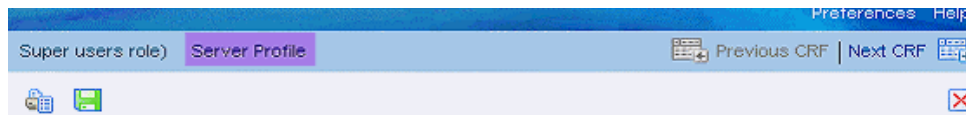
4. Open the **web.xml** file with a text editor.
5. Insert the following lines into the file:

```
<context-param>
  <param-name>performanceprofile</param-name>
  <param-value>1</param-value>
</context-param>
```

Make sure the parameter value is set to 1 to enable profiling. Any other value disables the profiling feature. In addition, make sure the XML syntax is preserved when you insert these lines.

6. Save your changes.
7. Restart the **rdc OC4J** instance.
8. Start the RDC Onsite application, and then open a CRF in the Data Entry window.

Because you enabled server profiling, RDC Onsite adds the **Server Profile** link to the session information line above the toolbar in the Data Entry window:



When you click the **Server Profile** link, RDC Onsite opens a separate window with data about the server profile.

The server profile data includes the Profile Name, the number of calls, and the minimum, maximum, and average time. All time values are in milliseconds. For example:

Profile Name	Number of calls	Min. Time	Max. Time	Avg. Time
cmdApproveDoc	0	-	-	-
cmdRelVal	0	-	-	-
cmdDeleteDoc	0	-	-	-
cmdDocData	3	438	1078	698
cmdSetSettings	0	-	-	-
cmdUpdateField	0	-	-	-
cmdLov	0	-	-	-
cmdBeforePanelOperation	0	-	-	-
cmdGetDiscrepancyDetails	0	-	-	-
cmdHelp	0	-	-	-
cmdGetDeleteDocDlgInfo	0	-	-	-
cmdGetUserNameForApproval	0	-	-	-
getConnection	16	0	438	34
InitController	3	1187	2344	1588

## 14.7 Tracking Scalability Data for RDC Onsite

RDC Onsite provides the capability to track the change in certain data related to the scalability of the system. When you enable this feature, RDC Onsite tracks the following metrics:

- Number of RDC Onsite users
- Number of Business Components for Java (BC4J) application modules
- Number of data entry sessions
- Number of DCAPI instances



## 14.7.1 Enabling Tracking of Scalability

To enable tracking of scalability:

1. Stop the **rdc OC4J** instance.
2. Log in to the RDC Onsite application server.
3. Navigate to the following directory:

```
ORACLE_AS10GR2MT_HOME\j2ee\rdc\applications\olsardc\
rdconsite\WEB-INF
```

4. Open the **web.xml** file with a text editor.
5. Insert the following lines into the file:

```
<context-param>
  <param-name>enablesensor</param-name>
  <param-value>1</param-value>
</context-param>
```

Make sure the XML syntax is preserved when you insert these lines.

6. Save your changes.
7. Restart the **rdc OC4J** instance.

## 14.7.2 Viewing the Scalability Metrics

Once you enable tracking of scalability data, RDC Onsite will generate sensor reports at specific intervals. The sensor reports are CSV files. RDC Onsite saves the files in the RDC log folder (*RDC\_HOME\log*).

For each JVM running the **rdc OC4J** instance, RDC Onsite creates a new folder in the RDC log folder:

```
opasensorreport_n
```

where *n* is the JVM instance number.

The *opasensorreport\_*n** folder has four files that correspond to the metrics collected:

- *NumberOfRdcUsers.csv* — number of RDC Onsite users
- *RdcAM.csv* — number of BC4J application modules
- *NumberOfDEWindows.csv* — number of data entry sessions
- *NumberOfDcapi.csv* — number of DCAPI instances

Each file records a new entry whenever an event that triggers a change in value occurs, for example, when a user logs in or logs out. Note that RDC Onsite updates the files only at specific intervals (every 10 minutes). Therefore, the files may not always reflect the latest data.

In each file, the first column is the number of milliseconds since the **rdc OC4J** instance was started. The second column represents the number (metric) that is being tracked.



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## Database Connections

During your installation of, or upgrade to RDC Onsite, you configured the database connections on your reports servers and application servers. This chapter repeats the information in case you need to set up additional database connections.

There are two parts to establishing database connections. First, you must update the **tnsnames.ora** file to include the database. Second, you must use the opaadmin application to set up the necessary database connections to be used with RDC Onsite.

This chapter includes the following topics:

- [Setting Up the SQL\\*Net Connections for Existing Databases](#)
- [Setting Up Database Connections in the opaadmin Utility](#)
- [Creating a New User with Access to the opaconfig Form](#)
- [Revoking User Access to the opaconfig Form](#)

### A.1 Setting Up the SQL\*Net Connections for Existing Databases

Establish that SQL\*Net connections exist between the Web Server computer and any databases you have already created by modifying the file **tnsnames.ora** to include entries for all the databases and Web Servers. The **tnsnames.ora** file for 10gAS is located at *ORACLE\_AS10GR2MT\_HOME*.

### A.2 Setting Up Database Connections in the opaadmin Utility

The information that you enter for each database with this utility is saved in the file **OpaConfig.xml** on the application server.

When you use the opaadmin utility to define database connections, you also specify the default database to be used by RDC Onsite. See [Section 6.2.2, "Customizing the RDC Onsite URL"](#) for information on how to connect to non-default databases.

#### To set up database connections:

1. Enter the opaadmin application by opening a browser window and specifying the URL:  
  
`http://server.domain/onsiteadmin/opaConfig.do`  
where *server.domain* is the server and domain of the target AS10gR2 server.
2. Complete the following fields:
  - Database Name = Name of your database
  - Host = Host name of your database

- Port = Port number of your database
  - Sid = Sid name of the database
3. Enter the password for the already existing BC4J\_INTERNAL account. If you do not know this password, reset it in the database.
  4. If TMS is installed, enter the password for the TMS\_BROWSER account. Leave the TMS\_BROWSER passwords blank if TMS is not installed.
  5. Specify `Default=true` to identify the default database to be used by RDC Onsite users.
  6. Save your changes.

### A.3 Creating a New User with Access to the opaconfig Form

To create a new user with access to the opaconfig form:

1. Log in to OEM (Oracle Enterprise Manager). Select the appropriate instance.
2. Click the **rdc OC4J** instance.
3. Click the **Applications** tab, the **opadamin** link, and the **Security** link.
4. Click **Add User**.
5. Enter Name, Description, Password, Confirm Password. Under Group Memberships, check the **jazn.com/OpaConfig** check box.
6. Click **OK**.
7. Restart the **rdc OC4J** instance.

### A.4 Revoking User Access to the opaconfig Form

To revoke a user's access to the opaconfig form:

1. Log in to OEM (Oracle Enterprise Manager). Select the appropriate instance.
2. Click the **rdc OC4J** instance.
3. Click the **Applications** tab, the **opadamin** link, and the **Security** link.
4. Select the user, and then click **Remove**. Click **Yes** on the Confirmation page.
5. Restart the **rdc OC4J** instance.

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## Generating HTML DE and PDR Templates for Existing DCI Form Versions

To use HTML Data Entry and the graphic Patient Data Report (PDR), you must design graphic layouts for the CRFs. For information on creating layouts and enabling studies for data entry using DCI Forms, see the *Oracle Clinical Creating a Study*.

If you have existing DCI Form Versions where the PDF form was generated, run the upgrade utility to generate BI Publisher Report Templates and HTML Data entry forms for the existing form versions.

You do not have to change your existing layouts. The Report templates and HTML DE forms look the same.

This appendix includes the following topics:

- [Creating User Roles that Can Upgrade DCI Forms Only](#)
- [Upgrading Existing DCI Form Versions for HTML DE and New PDRs](#)
- [Running the Upgrade Utility in Incremental Mode](#)

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**Note:** To enable image viewing on CRFs during data entry in RDC Onsite, you can choose either to set up a central repository or to copy images to all RDC Onsite installations. For information on enabling image viewing, see the *Oracle Clinical Administrator's Guide*.

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## B.1 Creating User Roles that Can Upgrade DCI Forms Only

By default, users with the role `RXC_ADMIN`, `RXC_SUPER`, or `RXC_SUPER_NOGL` can upgrade the DCI forms that RDC Onsite uses for HTML data entry and for the Patient Data Reports.

Note that the process you use to create the user roles that have access to the DCI Forms Upgrade utility is different from the process for creating the user roles for other administrative privileges. Therefore, you can identify user roles for upgrading DCI forms that are different from the roles for performing other administrative tasks.

**To modify the set of roles that have privileges to upgrade DCI forms:**

1. Log in to the Oracle Clinical database server.
2. Navigate to the Oracle Clinical `INSTALL` directory.
3. Open the `opapb_level_privs_m1.sql` file with a text editor.
4. Find the `dcif_upgrade_user` function.
  - Add the roles that you want to have privileges to upgrade DCI Forms.
  - Delete any roles you do not want to have the ability to upgrade DCI Forms.
5. Connect to SQL\*Plus.
6. Run the SQL script to process your changes:

```
SQL*Plus> START opapb_level_privs_m1.sql
```

---



---

**Note:** Oracle supports this modification, but you are responsible for re-applying any modification if a patch overrides the package.

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## B.2 Upgrading Existing DCI Form Versions for HTML DE and New PDRs

**To generate HTML forms and PDR templates from existing DCI Form layouts:**

1. Open your Web browser.
2. Enter the URL for the upgrade utility.
3. Log in to the upgrade utility using your Oracle Clinical user ID and password.
 

The Generate PDR Templates and HTML DE Forms form lists all the DCI Form Definition Enabled studies that your user ID can access.
4. Select a study by clicking a row. Make sure the entire row is highlighted in blue to indicate that the study has been selected. Although you can select multiple studies, Oracle recommends that you generate forms for only one study at a time.
5. Click **Generate**.

A job is initiated to generate an HTML Data Entry form and a BI Publisher report template for every DCI layout in the study for which a DCI Form Version has been generated previously. Note that this job does not run in the background and will take some time.

The Generation Status field in the lower left of the form shows each DCI form version as it is being processed. On the same form, when the job completes, you can select **View Log** to see whether the application encountered any errors during the execution of the job.

## B.3 Running the Upgrade Utility in Incremental Mode

By default, the Upgrade utility will always generate the HTML data entry forms and the PDR templates for all DCI Form Versions in the study that have PDF data entry forms generated.

There may be times when you have problems with the form or template generation. For example, perhaps some images used in the form layout are no longer in the correct location so the Upgrade utility does not generate a few of the DCI Form versions. For such cases, you can temporarily change the utility to run in incremental mode. In incremental mode, the Upgrade utility only creates the HTML data entry forms and the PDR templates if they do not already exist.

### To configure the Upgrade utility to run in incremental mode:

1. Open Oracle Clinical.
2. Navigate to **Admin, Reference Codelists**, and then select **Local Codelists**.
3. Query for the OCL\_STATE reference codelist.
  - a. Enter **OCL\_STATE** in the Name field.
  - b. Press **F8** to execute the query.
4. Scroll down to the **UPD\_FV\_INCREM** short value.
5. Set the long value to **Y**. Note that:
  - **Y** — Forces the Upgrade utility to run in incremental mode. In incremental mode, the utility will not regenerate HTML data entry forms and PDR templates for form versions that already exist.
  - **N** (default) — Forces the Upgrade utility to generate all form versions.

This setting applies only to running the Upgrade utility for existing DCI Form versions.

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**Note:** Running the Upgrade utility in incremental mode is for resolving problems. Oracle recommends that you do not continue to run the utility in incremental mode. Be sure to change the UPD\_FV\_INCREM value back to **N** after you generate the forms you need.

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# Glossary

## **access**

A property of a user name that denotes that certain privileges have been granted to that user. The term is used in RDC documentation as a means to convey that a set of privileges have or have not been granted to a particular user.

## **active**

A **discrepancy status** that indicates the relevant discrepancy is actionable by members of your user group.

## **approval history**

A record, or set of records, associated with a CRF that lists each change in **approval status** starting with the initial approval action.

## **approval status**

A designation that describes the current state of approval for a CRF. RDC has four approval statuses:

- **not approved**
- **approved**
- **approval undone**
- **awaiting re-approval**

See also **discrepancy status**; **entry status**; **verification status**.

## **approval undone**

An **approval status** that indicates a user with the approve privilege has removed the approved status of a CRF via the Undo Approval action.

## **approve privilege**

A **privilege** assigned to a user name that allows the user to alter the **approval status** of a CRF or a group of CRFs. The privilege is assigned at the site level only.

## **approved**

An **approval status** assigned to a CRF that indicates a user with the approve privilege certifies that the CRF is an accurate representation of the source data. In RDC, an approval is equivalent to an electronic signature.

### **audit history**

The set of all audit records for a given data point.

See also [audit record](#); [data point](#).

### **audit record**

A set of information that describes an instance of data update. Each audit record includes the following information:

- The current value of the data point
- The previous value of the data point
- The user name that changed the data point
- The time stamp the data update occurred
- The change reason
- An optional comment

### **awaiting re-approval**

This is a system-generated [approval status](#) that indicates the CRF is [approved](#), but that one or more response values were updated. A CRF in this approval status can be re-approved or the approval can be undone.

The CRF changes that cause the change in approval status include:

- Response value update
- Update to an investigator comment
- Initiation of a new investigator comment
- Update to a discrepancy
- Initiation of a new discrepancy

### **awaiting re-verification**

This is a system-generated [verification status](#) that indicates the CRF is [verified](#), but that one or more response values were updated. A CRF in this verification status can be re-verified or the verification can be undone.

The CRF changes that cause the change in verification status include:

- Response value update
- Update to an investigator comment
- Initiation of a new investigator comment
- Update to a discrepancy
- Initiation of a new discrepancy

### **batch loaded data**

A designation that specifies response values were entered into a CRF by electronic means, as opposed to manually entered via a user performing data entry.

### **blank**

An RDC [entry status](#) designation that is assigned to a CRF a user has defined as blank. A Blank CRF does not contain data, nor can data be collected while it is marked as blank.

**blank flag**

A check box in the Data Entry window. The Blank Flag, or check box, is used to designate a CRF as **blank**. It is a standard item in the CRF Header area of a Data Entry window and may also be present in the CRF Section, especially in multi-section CRFs.

**book**

See [casebook](#).

**browse (user action)**

A user action that entails reviewing existing data without adding new data or changing existing data.

**browse (privilege)**

A [privilege](#), specific to manually entered CRFs, that provides the user with the ability to view existing data, but not to add new data or update existing data in CRFs. All RDC users must be assigned this privilege or a higher-level privilege that incorporates it.

**browse batch**

A [privilege](#), specific to batch loaded CRFs, that provides the user with the ability to view existing data, but not to add new or update existing data in CRFs. This is the minimum privilege required for a user to view batch loaded CRFs.

**cancel**

A user action that halts the current process or action and reverts to the state of the application that immediately preceded the process or action, without changing the status of the system or data.

**Cancel button**

In a dialog box or window, a Cancel button causes the application to dismiss the window, disregard changes made in the window, and revert to conditions that existed before the window opened.

**casebook**

A collection of phases, patients, visits, and CRFs within a study.

**case report form**

See [CRF](#).

**change history**

A listing of the values that have been assigned to data or information. Each list item includes information that uniquely identifies it. Specifically, a time stamp and the user name of the person who made the change are recorded. In RDC, a change history can be associated with the following:

- [response value](#)
- [investigator comment](#)
- [discrepancy](#)

**change reason**

A constituent of an [audit record](#). A standardized entry that explains why a data point changed. The change reason can be supplied either automatically (system-provided) or manually (user-provided).

### **clinical planned event**

An occurrence, usually a visit, that is scheduled as part of a protocol to collect clinical data for a patient. In RDC, visits appear in the context of a casebook.

### **closed**

A **discrepancy status** that indicates the relevant discrepancy is not actionable by any user group. The discrepancy has been resolved, either by a user or the system.

See also **active**; **discrepancy state**; **discrepancy status**; **obsolete**; **other**.

### **PE**

See **clinical planned event**.

### **created**

An RDC entry status designation that is assigned to a CRF when all required CRF header data has been entered and saved, and no other data (that is, response data) has been entered.

This is used when your internal process involves an administration person who logs the paper as received in-house, but the data have not yet been entered by the data entry staff.

### **CRF**

The case report form (CRF) is a paper or an electronic record associated with a patient in a clinical study. Its purpose is to facilitate accurate collection of clinical data. RDC displays CRFs in the Data Entry window.

### **criterion**

In reference to the RDC Search window, one of the components that can be altered so that a certain set of study data is retrieved. Each criterion is comprised of a set of parameters that allow you to make choices about the data you want to retrieve.

### **CRF header**

A component of a CRF as it is displayed in the Data Entry window. It consists of one or more **header fields**, in which you collect information that uniquely describes and defines the current CRF.

RDC will not save a CRF to the study database until all required CRF header and CRF section header fields are collected.

### **CRF section**

In RDC, a constituent of a CRF that is comprised of a set of related questions. Each CRF contains at least one section and may contain more than one. In Oracle Clinical terms, a section equates to a **data collection module (DCM)**.

### **current**

A discrepancy state that indicates action can be taken on the discrepancy – either by a user or by the system. It has not been made **obsolete** by the system.

See also **active**; **closed**; **discrepancy state**; **obsolete**; **open**; **other**.

### **current study**

The data set that is active in RDC. The name of the current study is displayed in the title bar of the Main Application window.

**data collection instrument (DCI)**

See [DCI](#).

**data collection module (DCM)**

See [DCM](#).

**data entry mode**

In RDC, a designation that describes the method that is used to enter data into a CRF and save it to the study database.

**data entry status**

A designation that describes the current state of data entry for a CRF. RDC has four data entry statuses: [created](#), [blank](#), [entry started](#), and [entry complete](#).

**data field**

A location in the Question area of the Data Entry window in which you type a value that is the response to a CRF question.

**data point**

A location in a form where a data value may be entered. In most cases, a data point corresponds to a field in the Data Entry window.

**data update**

In RDC, the process of changing a CRF that has been [created](#) and saved to the database by altering a [data point](#) and saving the new version of the CRF to the database.

See also [CRF](#); [created](#); [data point](#); [initial data entry](#).

**DCAPI**

An acronym for the Data Capture API system.

**DCI**

The term that Oracle Clinical uses for an RDC [CRF](#). A DCI is composed of one or more DCMs.

See also [CRF](#); [DCM](#).

**DCM**

For RDC, a data collection module (DCM) is the term that Oracle Clinical uses for a CRF [section \(CRF\)](#).

In Oracle Clinical, a DCM is a set of one or more related groups of questions that pertain to a single clinical study visit.

See also [section \(CRF\)](#).

**default study**

The preferred study associated with your user name. RDC automatically selects the default study when you start a session.

- If you have access to one study, that is your default study.
- If you have access to more than one study, the study that was active when you closed the previous session is the default study.

- If you have access to more than study, but have not started a previous session in the current database, the system administrator can specify a default study.
- If the a default study is not specified, the system presents the Change Study window when you log in, which lets you select a study from among those to which you have access.

**discrepancy**

Data that falls outside of an expected range of values or is otherwise flagged during the edit check process.

See also [discrepancy management](#); [manual discrepancy](#); [multivariate discrepancy](#); [univariate discrepancy](#).

**discrepancy action**

A process that changes the status of a discrepancy. There are two types of actions:

- Routing
- Resolution

**discrepancy change history**

The listing associated with a discrepancy that provides details of each update that was made it. The specific components of the discrepancy change history that are available to RDC users are:

- Time stamp of update
- Error text
- Discrepancy comment
- Current status
- Resolution
- Resolution comment
- Change by

**discrepancy management**

A process that systematically addresses discrepancies generated within a study. Discrepancy management attempts to identify the cause and assess the implications of each discrepancy and determine an appropriate action for the discrepancy. Its goal is to satisfactorily resolve all discrepancies associated with each CRF.

See also [discrepancy](#); [manual discrepancy](#); [multivariate discrepancy](#); [univariate discrepancy](#).

**discrepancy record**

An entry that is part of the study database that defines the pertinent aspects of a discrepancy, from its initial occurrence and through each action that is taken on it.

**discrepancy state**

The highest level designation of a discrepancy. A discrepancy can be in one of two states: [current](#) or [obsolete](#).

**discrepancy status**

A designation that describes a current discrepancy or the current state of a CRF with regard to discrepancies. RDC has four discrepancy statuses: [active](#), [other](#), [closed](#), and none.

**discrete value group**

(Oracle Clinical) A set of responses that are acceptable for a given question. A DVG constrains the responses to a question to a distinct set of values. It may also allow the same question to be used in multiple instances.

It is also possible for one DVG to be a subset of another DVG. In this case, the child DVG is made up of responses that are part of the parent.

**document**

In RDC, the equivalent of a [CRF](#).

**document number**

A system-assigned unique identifier for a particular collected CRF.

**DVG**

See [discrete value group](#).

**entry complete**

An [entry status](#) that is assigned to a CRF in which all required fields have been entered, including CRF header fields and Question area response data points.

**entry started**

An [entry status](#) that is assigned to a CRF in which data entry has been started but is not complete. CRFs that are assigned this entry status, some required data fields are complete, while some are not; the document has been saved in an incomplete status.

**entry status**

Formal stages of data entry, delineated in Oracle Clinical and RDC, that track the progression of a CRF from no data entered (created) through entry complete, to approved.

See also [blank](#); [created](#); [entry complete](#); [entry started](#).

**focus**

In RDC, where the cursor is currently active. Focus may change from window to window, as when the cursor moves from the application page to the first field in the Data Entry window.

How focus changes is a consideration when you are modifying the settings on the Preferences window to enhance the efficiency of your data entry or verification and approval sessions.

**frozen**

A designation that is applied to a patient that indicates that all data has been received, entered, reviewed, and cleaned for the patient, CRF, or visit.

**header field**

A location in the CRF Header or the CRF Section Header in which you collect values that provide information about the CRF. A header field is either required or optional.

All required header fields must be collected before the system permits a CRF to be saved to the study database.

In the CRF Header, the following header fields are available:

- Visit date
- Visit time
- Comment
- Blank flag

In CRF Section Headers, the following fields are available:

- Date
- Time
- Blank flag
- Clinical planned event
- Lab
- Qualifying value

**Note:** The preceding lists are specific to RDC only.

### **indicator question**

A question used with a **question group** that allows branching during data entry based on the response.

For example, in a Drug Allergy question group, an indicator question could be, "Allergic to any drug?"

- If the response is **Yes**, the remaining questions in the question group, such as *Drug Name* and *Type of Reaction*, require responses.
- If the response is **No**, the rest of the question group is not collected.

### **initial data entry**

The step in the RDC workflow during which the CRF is initially opened and created. During this process all required CRF and CRF section header information is collected. Response data may or may not be collected.

### **installation reference codelist**

(Oracle Clinical) A reference codelist that is defined and populated upon initial installation of the application.

### **instance**

An application server instance is the set of processes required to run the configured components within an application server installation. There can be only one application server instance per application server installation. The terms installation and instance are sometimes used interchangeably; however, it is important to remember that an installation is the set of files installed into an Oracle home and an instance is a set of processes associated with those files.

### **internal**

A **discrepancy status** that can be assigned to a **section discrepancy** through a **routing** action. This type of discrepancy can be configured so that it is *hidden* from one or more user groups.



**investigator comment**

A textual explanation that is written by the investigator. It provides the investigator with the opportunity to include additional information with a response value. Each investigator comment is saved as part of the response with which it is associated.

RDC provides visual cues to alert the user to the presence of an investigator comment associated with a data point:

- The Data Entry window displays the response field with a yellow background.
- The Data Entry window displays the data value in a green font.
- When focus is in the relevant response field, the title in the Data Entry window includes an <Inv> entry to indicate the presence of the investigator comment.

**list of values**

A set of possible values for a data field. The list of values can generally be displayed by clicking the button that is associated with list of value fields, clicking the **List** button, or pressing the **F9** key.

Values that are defined for a **discrete value group** are displayed as a list of valid values.

See also **discrete value group**.

**lock privilege**

A privilege that may be assigned that enables a user to lock a CRF or a set of CRFs

See also **privilege**.

**lock process**

A process that prevents subsequent update of a CRF. Under most circumstances, a locked CRF cannot be **unlocked**, although administrators may permit, on a limited basis, a user to unlock a single CRF so that data may be updated.

**locked**

A status assigned to a CRF that indicates all data has been collected, approved, and verified. A locked CRF may be viewed in browse mode and may be included in PDRs, however, its data may not be updated under normal circumstances.

See also browse mode; lock; PDR; status; update mode; unlock.

**lock status**

A designation that describes the current state of a CRF, with regard to whether or not it may be updated. RDC has two lock statuses: **locked** and **unlocked**.

**LOV**

See **list of values**.

**mandatory response field**

A response field in the question area of CRF section that should be completed before the CRF is saved in the Entry Complete status. Failure to do so results in the generation of a discrepancy, which is associated with the relevant response field.

**mandatory field discrepancy**

A **discrepancy** associated with a **mandatory response field** that is generated by the system when a CRF is saved. The discrepancy triggers when data for the field is not collected.

### **manual discrepancy**

A **discrepancy** that is generated by a user, rather than a **data point** value. In RDC, a manual discrepancy may be associated with an entire CRF, a CRF section header, or a specific response in the question area of a CRF.

See also [discrepancy](#); [discrepancy management](#); [section discrepancy](#).

### **multivariate discrepancy**

A **discrepancy** that is dependent on two or more **data point** values, which can be within a single CRF or across multiple CRFs and/or visits. A multivariate discrepancy is generated when a CRF is saved, which causes the system to run the validation procedures that locate this type of discrepancy.

See also [discrepancy](#); [discrepancy management](#); [manual discrepancy](#).

### **news item**

A message that is communicated by the study sponsor to some portion of its RDC users.

### **non-repeating question group**

A set of questions that are related, but for which there is not a single set of possible answers.

See also [question group](#); [repeating question](#).

### **not approved**

An **approval status** assigned to a CRF that indicates the CRF has never been **approved**.

See also [approval status](#); [approved](#); [awaiting re-approval](#); [not approved](#).

### **not verified**

A **verification status** that indicates the CRF has not yet been verified.

See also [awaiting re-verification](#); [not verified](#); [verification status](#); [verified](#).

### **obsolete**

A system-generated **discrepancy state** assigned to a discrepancy that is associated with a response that is a constituent of:

- A **repeating question** row that was deleted
- A question that was deleted
- A CRF section that was deleted
- A CRF that was deleted

A section discrepancy is made obsolete when its parent CRF is deleted or made blank. A data discrepancy is also made obsolete if the validation procedure upon which it is based is retired.

### **OC4J Location**

OC4J location refers to the folder location where the OC4J instance under which the RDC application is running is installed. Typically, this location is at:

[Oracle Root Folder]\[Middle Tier folder, abbreviated as MT, for example, AS10GR2mt]\j2ee\rdc

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Oracle Application Server Containers for J2EE (OC4J) is a complete set of J2EE containers written entirely in Java that execute on the Java Virtual Machine (JVM) of the standard Java Development Kit (JDK).

**OC4J Restart**

RDC Onsite is run under a specific OC4J instance called rdc created under 10GAS during installation. Restarting this OC4J involves going to the 10G administrative console (web or command prompt), locating this particular OC4J instance, and restarting it.

**OPA\_HOME**

OPA\_HOME is an environment variable (UNIX) or registry key (Windows) that indicates the directory where Oracle software is installed. For RDC, OPA\_HOME refers to the location of the OLSA home folder, which includes subfolders containing binaries, logs, temporary files, and configurations.

**open**

A designation for a **discrepancy** that indicates it is either in the **active** or **other** discrepancy status; that is, it is actionable by a user group.

A designation for a CRF that indicates it contains at least one **active** or **other** discrepancy.

**optional CRF**

A CRF that is planned in a visit, but that the protocol does not require to be collected. Optional CRFs are not included when the system determines whether there are missing pages. The information in the CRF Column Header of optional CRFs is displayed in italic font to distinguish each from required CRFs.

**other**

A **discrepancy status** that indicates the discrepancy is actionable by a user group other than yours.

**parameter**

In reference to the Search window, a component of a **criterion** that you use to define a specific property of the data you want to comprise the workset. A parameter may be comprised of settings that represent a value or range of values that, when combined with any other parameters in the same criterion, define specific data.

See also **criterion**; **search phrase**; **setting**.

**pass 2 complete**

A **data entry status** that assigned to CRFs that originate in the Oracle Clinical data entry system. It indicates that two-pass data entry was required for the CRF and that the second pass is complete.

**pass 2 started**

A **data entry status** that assigned to CRFs that originate in the Oracle Clinical data entry system. It indicates that two-pass data entry was required for the CRF and that at least one response field has been recorded in the second pass.

**patient**

The data that represents a participant in a clinical study. This includes demographic information and clinical results.

## **Patient Data Report (PDR)**

In Oracle Clinical or RDC, a Patient Data Report (PDR) is a generated compilation of data that is presented in a [PDF](#) document.

### **patient list**

The set of patients that contain at least one CRF that satisfies the search criteria.

### **patient number**

A designation for a set of patient data that is unique across a given study. Patient numbers are assigned to a study as part of the Oracle Clinical Design process. Alternative terms include: enrollment number, allocation number, and randomization number.

The following rules apply to all patient numbers:

- Each patient number must always be assigned to a site.
- Each patient number may not be assigned to more than one site at a time.
- The first character in the patient number string may be a non-zero numeric or an alphabetic character.
- If the first character in the patient number string is alphabetic, the second character must be a non-zero numeric character.
- Only the first character may be alphabetic.

### **PDF**

Portable Document Format (PDF) is a universal file format published by Adobe Systems, Inc., that preserves all the fonts, formatting, graphics, and color of a source document that is generated with any application on any operating system.

### **pending changes**

Changes that are made to a CRF that have not yet been committed to the study database. The changes that may be pending are response value, investigator comments, or discrepancies. The save action commits pending changes to the database.

### **phase**

An attribute of a book that denotes a stage of a study. Phases are used to divide the study into logical groupings of visits. Examples of phases include: Screening, Dosing, and Follow-up.

You can use the RDC Spreadsheet to view CRFs by phases. To do this, select the Phase Spreadsheet view from the Spreadsheet View drop-down list box.

### **Portable Document Format**

See [PDF](#).

### **privilege**

A privilege is the right to perform an action on the database. Privileges can either be general (system privileges) or specific to particular database objects (object privileges). They can also be grouped into roles.

The ability for an RDC user to perform a certain task. Privileges are granted to users in the RDC Administration study and site maintenance windows by administrators. In general, users within a user group, that is, those that are given the same [role](#), are assigned the same set of privileges.

The following privileges may be assigned to RDC users:

- Browse
- Browse batch loaded data
- Update data
- Update batch data
- Update discrepancies
- Verify CRFs
- Approve CRFs (on a site basis only)
- Lock
- Unlock (on a site basis only)

### **qualifying value question**

A question that differentiates between sets of identical questions. In a multi-section CRF, where the same section, containing the same set of questions, is collected more than once, a qualifying question is used in each such section. The purpose of the qualifying question is to elicit a unique response, called a **qualifying value**, which allows differentiation of the responses in the sections.

When you respond to a qualifying value question, you select from a discrete set of values that are specified in the question definition.

An example of a qualifying question is a multi-section CRF that collects vital sign data multiple times in a single visit. Each set of vital sign data comprises a section. Each section is differentiated by “time post dose” question. The result is a set of vital signs collected at specific times.

### **qualifying value**

The value assigned to a **qualifying value question** that is associated with a CRF section. For multi-section CRFs, where each section includes a qualifying question, the qualifying value is used to differentiate between the sections.

### **query**

A procedure that is run against a database with the goal of returning a subset of a data that satisfy the query criteria.

An industry term that is a synonym for the Oracle Clinical term, **discrepancy**.

### **question definition**

The set of information that delineates what data a question collects. Among the information is:

- Question name
- Data type
- Length
- Lower bound
- Upper bound

### **question group**

A set of questions in a CRF that are related due to similarity or study protocol considerations.

An example of a question group is Demographics, which collects such data as gender, race, and birth date.

See also [non-repeating question group](#); [repeating question](#).

### **question name**

The label that describes a question. It may be in the form of a question or it may simply be a word or phrase that serves as the prompt for a response.

### **RDC**

Remote Data Capture.

### **repeating question**

A question that usually consists of more than one response. The responses are generally situated in a single row and are referred to as a *repeating question row*. For each response, there may be a default value, which is a system-provided value that entered automatically when you open the CRF. A repeating question is usually one of a set, each of which are distinguished by the initial response or by a question label.

An example is a question group titled, "Body Systems." Each repeating question row collects data about a different body system with three response values. The first response in each row identifies the part of the body, for instance, chest, or head. The next response in each row requires one of three values: Normal, Abnormal, or Not Done. If the response to this question is Abnormal, the third response, Explanation, is required.

See also [non-repeating question group](#); [question group](#).

### **required CRF**

A CRF that the protocol specifies as a planned CRF in a visit, for which data must be collected. Planned CRFs are analyzed when the system determines whether there are missing pages. The information in the CRF Column Header of optional CRFs is displayed in regular font to distinguish each from [optional CRFs](#).

See also [CRF](#); [optional CRF](#).

### **required field**

A designation for a CRF data point that indicates data must be collected for that field before the system will save the CRF.

### **resolution**

A type of [discrepancy action](#) that causes the status of the discrepancy to change from [active](#) to [closed](#).

See also [discrepancy](#); [discrepancy action](#); [discrepancy status](#); [routing](#); [user role](#).

### **resolution reason**

A parameter associated with a [discrepancy action](#) that provides a sponsor-defined reason when a user closes a discrepancy.

**response value**

The value that is assigned to a data point. This term usually refers to fields in the Question area of a CRF.

See also [CRF](#); [data point](#).

**role**

See [user role](#).

**routing**

A type of [discrepancy action](#) that causes the status of the discrepancy to change from [active](#) to [other](#) for your user group and from other to active for a different user group.

See also [discrepancy](#); [discrepancy action](#); [discrepancy status](#); [resolution](#); [user role](#).

**search criteria**

The settings that determine the CRFs that comprise the workset. These settings can be defined directly in the Search pane, or indirectly, through an Activities link.

**search phrase**

The group of [settings](#) that, when taken together, define a searchable property. For example:

Search all CRFs named Vitals that have active discrepancies.

You use several drop-down lists in the Search window to construct the search phrase.

**section (CRF)**

In RDC, a constituent of a CRF that is comprised of a set of related questions. Each CRF contains at least one section and may contain more than one. In Oracle Clinical terms, a section equates to a [data collection module \(DCM\)](#).

**section (Graphical User Interface)**

In the user interface, a section is a part of a window or other informational feature that contains related information and/or data fields. It is often delineated by a descriptive label and a border that surrounds its related components.

**section discrepancy**

A user-generated [discrepancy](#) that is associated with a [CRF section](#). There can be multiple discrepancies associated with a CRF section. This is the only type of discrepancy can be routed as an [internal](#) discrepancy.

See also [CRF section](#); [discrepancy](#).

**session**

The period that starts when you successfully log in to RDC and ends when you exit RDC. This is also referred to as an **RDC session**. It is constricted by limitations that are imposed by the following conditions:

- Only one user name is granted access to a session.
- The role and privileges assigned to the user name determine the patient data and functionality that is available within a session.
- Only one database can be accessed during a given session. If you want to access a different database, you must start a new RDC session.

- Only one study can be open at a time during a session, however, unlike the restriction on the active database, you can change to another study within an RDC session. If you want to access a different study, you must close the current study and select another one.
- Only one book can be active at a given time, however, you can change to another book within an RDC session.
- One or more sites can be active during a given session and the privileges assigned to the user name may vary from site to site.

**setting**

The value of a **parameter** in the Search pane, which is a contributor to a the value of a **criterion**. Usually, the default setting for a parameter is ALL, which means that the parameter does not limit the data that is retrieved. When the value of a parameter is set to something other than ALL, it generally limits the number of CRFs that are retrieved.

See also **criterion**; **parameter**.

**shortcut key**

A key or key combination that allows you to implement a function in the application by using the keyboard.

**test mode**

A method of using RDC during study design, prior to the start of the protocol. Under normal circumstances, RDC runs with Production mode active. This mode mirrors the look and feel of production mode but uses a separate set of tables to store the data.

**time point**

A significant event in the history of a CRF. Used as criterion when viewing the Audit Trail tab. Examples of time points include:

- Creation date
- Verification dates
- Approval dates

**time stamp**

A value assigned to a data point that provides a chronology for significant events during a study. Such events include the date/time when a value was created, the date/time when a value was updated, and so on.

**Uniform Resource Identifier**

See **URI**.

**Uniform Resource Locator**

See **URL**.

**univariate discrepancy**

A **discrepancy** that is dependent on the value of a single **data point**. This type of discrepancy is usually when the value recorded for a response does not meet certain criteria that is deemed acceptable by the study sponsor.

See also **discrepancy**; **discrepancy management**; **manual discrepancy**; **multivariate discrepancy**.



**unlock privilege**

A privilege that is assigned to a user to unlock a CRF. The privilege can only be assigned at the site level.

See also [lock privilege](#); [privilege](#).

**unlock process**

A process that allows a user with unlock privilege to assign to another user the capability to update a CRF that is in the [locked](#) status.

**unlocked**

A [lock status](#) that indicates a CRF may be updated.

**unplanned**

A designation attributed to any event or CRF that was not part of the protocol schedule or which occurs at a time other than was originally specified in the protocol schedule.

See also [unplanned CRF](#); [unplanned visit](#).

**unplanned CRF**

A CRF collected at a visit at which it was not planned, that is, it is not part of the casebook.

**unplanned visit**

A clinical event which occurs that was not scheduled by the protocol.

**update privilege**

A [privilege](#) that allows a user to initiate data entry, update data, initiate discrepancies, and update discrepancies.

**update process**

A process or condition in which CRF data or information, which has previously been saved, is changed.

**update batch**

A [privilege](#) that allows a user to initiate or update a discrepancy in CRFs that are batch-loaded.

**update discrepancy**

A [privilege](#) that allows a user to initiate or update a discrepancy in CRFs that are no batch-loaded.

**URI**

Uniform Resource Identifier (URI) is the generic term for all types of names and addresses that refer to objects on the World Wide Web. A [URL](#) is one kind of URI.

**URL**

Uniform Resource Locator (URL) is an Internet address that points to a specific resource on the World Wide Web by its location. The address is described in combinations of syntax and special characters that, when combined, represent a unique string. In general, URLs make up a subset of URIs. Common URLs are those that point to Web pages or to FTP sites. The former are identified by an "http:" prefix string, the latter are identified by an "ftp:" prefix string.

Uniform Resource Locator (URL), a form of URI, is a compact string representation of the location for a resource that is available via the Internet. It is also the text-string format Web clients use to encode requests to Oracle Application Server.

**user role**

A role is a group of database privileges that can be granted and revoked as a unit. Specific privileges can be granted and revoked from the role dynamically, and the role can be enabled or disabled dynamically for specific users.

In RDC, there are five default user roles, however, any given study database may include some or all of these, and may include sponsor-specific roles. RDC allows privileges to be assigned independently of user role assignment.

The roles that RDC ships with are:

- Super User (SU)
- Data Manager (DM)
- Clinical Research Associate (CRA)
- Site Coordinator (SITE)
- Site Investigator (INV)

See also [privilege](#).

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**Note:** The RDC documentation uses this default set of user roles to describe various functionality that is dependent on certain sets of privileges.

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**validation**

An action that entails the initiation and processing of sponsor-defined procedures, in the case of multiple data points, or edit checks, in the case of a single data point, that analyze collected data and return an query, or discrepancy, for each data point that does not meet the criteria defined in the procedure. Such a data-generated discrepancy is also referred to as a [validation error](#).

**validation error**

A condition associated with one or more data points that indicates the value does not meet the criteria defined in a question definition or validation procedure. It is equivalent to a data-generated [discrepancy](#).

**value**

When used in the context of criteria and parameters, the choice that you assign to a parameter, which was chosen from a list of possible values.

**verification history**

A record, or set of records, associated with a CRF that lists each change in [verification status](#) starting with the initial verification action.

**verification status**

A designation that describes if a CRF has been verified. RDC has four verification statuses: [not verified](#), [verified](#), [verification undone](#), and [awaiting re-verification](#).

**verification undone**

A **verification status** that indicates the CRF was verified but subsequently the verification was undone. This status is equivalent to the **not verified** status, with the exception that a **verification history** exists for a CRF in verification undone status.

**verified**

A **verification status** that indicates the CRF has been verified by a user with the verify privilege.

**verify**

A **privilege** assigned to a user name that allows the user to alter the **verification status** of a CRF or a group of CRFs. The privilege can be assigned at the study level or the site level.

**visit**

A clinical event, which generally denotes the occurrence of a meeting between a patient and clinical staff at a study site. In the course of a visit, data related to the study is collected, which at some point is recorded and saved to the study database.

In RDC, a visit consists of one or more CRFs.

**watermark**

A visible feature that overlays a browse mode CRF in the Data Entry window. It displays the time stamp of the last modification and the words BROWSE ONLY. The browse mode watermark is visible along the left-hand margin of each CRF page.

