

# **Oracle® Configuration Controls Governor**

User Guide

Release 5.5.1

Part No. E59494-02

December 2014

## Oracle Configuration Controls Governor User Guide

Part No. E59494-02

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# Introducing Configuration Controls Governor

Oracle Configuration Controls Governor (CCG) provides internal control of your ERP application setups. Easy-to-use definitions let you:

- Take snapshots, which document ERP application setups.
- Create comparisons of snapshots, to show how ERP application setups differ across:
  - Time
  - Operating Units or Organizations
  - Sets of Books
  - ERP instance versions
  - ERP instances
- Use change tracking to monitor ERP application setup changes.

## How to Use Configuration Controls Governor

You begin using CCG by creating definitions:

- Snapshot definitions record setup data for a specified ERP application on a specified ERP instance.
- Change tracking definitions set up ongoing monitoring of specified ERP applications and instances.

Once you've tested each definition, you schedule it to run, either immediately or according to a schedule, as appropriate. You can create as many definitions as you like, and reuse them anytime.

To get started:

1. Decide what kind of definition you'll create first.
2. Create, test, and schedule the definition. See "Creating Snapshots" (chapter 2) or "Tracking Changes" (chapter 4).

## Prerequisites and Assumptions

It is assumed that:

- Configuration Controls Governor has been installed and configured. To install, see the *Configuration Controls Governor Installation Guide*. To configure, see the *Configuration Controls Governor Administration Guide*.
- CCG users are also ERP application users with sysadmin, superuser, or user privileges.
- CCG users are familiar with the use of the ERP application software.

## Logging In

To begin working with CCG, log in:

1. Open a web browser window and visit the Secure Login page:

`http://hostname/web-application-name`

In this command, *hostname* is the domain name of the web server configured to serve CCG, and *web-application-name* is the name of the CCG web application (usually *ccg*).

If you have a CCG icon on your desktop, double-clicking it opens this page.

The screenshot shows the Oracle Configuration Controls Governor web application. At the top, there is a blue header bar with the text "ORACLE Configuration Controls Governor". Below the header, the main content area has a light blue background. In the center, there is a white box titled "Secure Login". Inside this box, there are two input fields: "Username" and "Password". To the right of the "Password" field is a "Login" button. At the bottom of the page, there is a small copyright notice: "Copyright © 2008, Oracle. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners."

2. Enter your username and password, and click Login.

CCG opens initially to a page you select when you create a user profile (see page 30).

## Creating Snapshots

Each snapshot records setup data for a specified ERP application on a specified ERP instance. To create a snapshot, you will:

- Create a snapshot definition
- Test the definition
- Lock the definition
- Schedule the definition for recurring execution
- Optionally, share the definition with other CCG users

To simplify setup and reporting, CCG allows only one application in each snapshot definition. To create or edit definitions, you must have the CCG User role. To schedule definitions, you must have the Snapshot Scheduler role.

### Create a Definition

To create a snapshot definition:

1. Select Workbench > CCG from the menu bar. A list of definitions appears.

ORACLE<sup>®</sup> Configuration Controls Governor

Welcome Seymour Glass Logout

Home Workbench Administrator Jobs Help

CCG Definitions

Current Location: Workbench > CCG

Results Per Page: 10

Results 1 - 2 Of 2

Definition	Instance	Created	Type	Application	Created by	Comparisons	Occurrences	Edit
<input checked="" type="checkbox"/> Accounts Receivable	flagstaffag2	03/10/2009	Snapshot	AR 12.0.4	BARRY	<a href="#">Comparisons</a>	<a href="#">Occurrences</a>	<a href="#">Edit</a>
<input checked="" type="checkbox"/> Accounts Payable	flagstaffag2	03/11/2009	Snapshot	AP 12.0.4	SGLASS	<a href="#">Comparisons</a>	<a href="#">Occurrences</a>	<a href="#">Edit</a>

Results Per Page: 10

Results 1 - 2 Of 2

First < Prev Next > Last

Reuse Search

Add definition... Change Tracker

2. Click Add Definition. A Definition Workbench displays a blank definition:

ORACLE<sup>®</sup> Configuration Controls Governor

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Home Workbench Administrator Jobs Help

CCG Definition Workbench

Current Location: Workbench > CCG

Definition Basics

Name:

Instance:

Type:

Application:

☐ Include in Schedulable Items list

Save Cancel

3. Enter the following information:
  - Name. A short name that will identify this definition.
  - Instance. ERP instance that contains the application setup data to snapshot or track.
  - Type. There are two choices: Snapshot, to report on ERP application setup data; and Change Tracking, to monitor changes to setup data. For this procedure, choose Snapshot.
  - Application. ERP application to snapshot or track.

A checkbox labeled Include in Scheduled Items List is disabled until at least one object has been added to the definition. (At that point, you would click the checkbox to cause the definition to appear in a list of items that can be selected when jobs are scheduled.)

4. Click Save. The Definition Workbench refreshes, displaying Objects, Global Conditions, Sharing, and Programs sections.

5. Click the Add Object button. The Objects page appears.

6. An object is a group of setup data to be recorded. Click on the button to the right of the Object field, and select an object.

When you click the button at the right of a field, all possible values are displayed, regardless of your security groups (which can limit your access to applications, business groups, organization units, and sets of books.) Snapshot results contain only the data permitted by your security groups. For information about security groups, see the *Configuration Controls Governor Administration Guide*.



The page refreshes with fields appropriate to the object you have chosen; here is an example.

**ORACLE Configuration Controls Governor** Welcome Seymour Glass Logout

Home Workbench Administrator Jobs Help

**CCG Definition Workbench** Current Location: Workbench > CCG

Objects Definition: Accounts Receivable Instance: Ragstaffag2 Type: Snapshot Application: AR 12.0.4

Add object... Object: Payment Terms Enabled

Operator	Value
Name	— Select one —
Description	— Select one —
Allow Discount on Partial Payments	— Select one —
Prepayment	— Select one —
Credit Check	— Select one —
Billing Cycle	— Select one —
Base Amount	— Select one —
Discount Basis	— Select one —
Effective Date From	— Select one —
Effective Date To	— Select one —
Print Lead Days	— Select one —
Installment Options	— Select one —

Save Cancel Back

7. To filter setup data, set the Operator and Value of one or more fields.
8. Click Save. The page refreshes, displaying a summary of the object.
9. To include another object in the reporting, repeat steps 5–8. You may add as many objects as you wish.
10. Click Back. The definition page reappears.

**ORACLE Configuration Controls Governor** Welcome Seymour Glass Logout

Home Workbench Administrator Jobs Help

**CCG Definition Workbench** Current Location: Workbench > CCG

Definition Basics

Name: Accounts Receivable Type: Snapshot  
Instance: Ragstaffag2 Application: AR 12.0.4

☐ Include in Schedulable Items list

Objects

Object	Enabled
AR Payment Terms	Yes

Add object... Add all objects

Global Conditions

Ledger Set  
Ledger  
Organization

Lock Objects and Conditions

Sharing

Share

Programs

Program	Stop After	Skip	Run Before	Run After	Notify
1. Generate Occurrence	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>

Schedule Save Save As Restore Back

11. Check the Include in Schedulable Items List checkbox.
12. Optionally, add global conditions to the definition. For Oracle E-Business Suite you can select sets of books (for release 11.5.10), ledgers or ledger sets (for release 12.0.4 and later), or organizations (for either release) to be included in the snapshot. For PeopleSoft Enterprise, enter SetID. This gathers values such as vendors, ChartFields, or customers into groups. It may be used by any number of business units.
13. Click Save.

## Test the Definition

Once the definition is complete, test it. First, schedule the definition to run once:

1. Click Schedule.... The Schedule a Job page appears.

2. Click Schedule to start the job immediately. The View Current Jobs page appears. Click Refresh to see your job (in this example, 5015).

Job ID	Status	User	Items to Execute	Start Date/Time
5015	RUNNING	BARRY	Configuration Controls Governor: AccountsReceivable	2009-03-10 01:56:26 America/Los_Angeles
5014	COMPLETED	SRINU	Configuration Controls Governor: test	2009-03-10 00:46:01 America/Los_Angeles
5013	COMPLETED	ANIL	Configuration Controls Governor: Synchronize Metadata to Target Instance	2009-03-09 16:33:43 America/Los_Angeles
5012	COMPLETED	SRINU	Configuration Controls Governor: Change Tracking Transfer	2009-03-08 20:53:46 America/Los_Angeles
5011	COMPLETED	SRINU	Configuration Controls Governor: Change Tracking Transfer	2009-03-08 20:36:46 America/Los_Angeles
5010	COMPLETED	SRINU	Configuration Controls Governor: Change Tracking Transfer	2009-03-08 20:26:50 America/Los_Angeles
5009	COMPLETED	SRINU	Configuration Controls Governor: test_sptgrp	2009-03-08 20:14:12 America/Los_Angeles
5008	COMPLETED	AMADMIN	Configure Configuration Controls Governor	2009-03-08 19:48:16 America/Los_Angeles
5007	COMPLETED	AMADMIN	Configure Integrate Agent	2009-03-08 19:48:01 America/Los_Angeles
5006	COMPLETED	SRINU	Configuration Controls Governor: chg tfr AR	2009-03-08 19:36:56 America/Los_Angeles

Next, view the resulting snapshot reports:

1. Monitor the job until it is completed, and then expand its entry (click on the plus sign at the left of its row).

Program	Definition	Status	Started
Generate Occurrence	AccountsReceivable	Completed	2009-03-10 01:56:27 America/Los_Angeles

2. Click Details to the right of Generate Occurrence. The CCG Occurrence Objects page appears. Expand the row for any object to view its conditions.

Object	Enabled	Values
AR Transaction Types	Yes	Values
Payment Terms	Yes	Values

3. Begin to generate a snapshot report. Do either of the following:
  - Include multiple objects in the report. Click Export all... to include all objects, or click the checkboxes to the left of objects you want to include and click Export selected.
  - Include one object in the report, and select values for it. Click the Values link for an individual object to view its primary records. (To filter the values, click Revise Search.)

Click Export all to include all values in the report, or click the checkboxes to the left of the values that you want to include and click Export selected.

4. In either case, an Export page appears. Select the report's contents and format, and click Export.

If the definition must be revised:

1. Select Workbench > CCG from the menu bar. A list of definitions appears.
2. Find the definition if it is not visible. You can change the number of Results Per Page, click Next > or Last, or click Revise Search.
3. Click Edit to the right of the definition's name. The definition appears.
4. Change the definition's settings as desired.
5. Your changes to any part of the definition are saved when you click Save.

Schedule the revised definition to run once:

1. While still viewing the definition, click Schedule.... The revised definition is saved and the Schedule a Job page appears.
2. Click Submit to run the job immediately. The View Current/Past Jobs page appears.

Then view the snapshot reports:

1. Watch the new job you've created. When the Generate Occurrence program is done, click Details. The CCG Occurrence Details page appears. View the reports.
2. Repeat the preceding steps until the definition provides the desired results.

## Lock the Definition

Once the definition passes its test, lock it:

1. Select Workbench > CCG from the menu bar. You are returned to the Definitions page.
2. Click Edit to the right of the definition's name.
3. Click Lock Definition. A confirmation message appears.
4. Click OK to continue, or Cancel to return to testing the existing definition.

## Use the Definition

To use the definition, click the Schedule button. The Schedule a Job page appears.

1. Set the page's options. To schedule other definitions or programs to run sequentially before or after your snapshot definition, click Add Item. (For details, see Chapter 5, "Schedule Definitions and Work with Jobs.")
2. Click Schedule. Each time the definition is run, a new occurrence is created. To view or compare occurrences, select Workbench > CCG from the menu bar and click Occurrences to the right of the definition's name. To learn how to compare occurrences, see Chapter 3, "Comparing Snapshots."

## Share the Definition

Once you have locked the definition's conditions, you may make it visible to other users. If those users have been assigned the necessary roles, they can view existing occurrences (CCG User) and schedule the definition (Snapshot Scheduler).

1. Select Workbench > CCG from the menu bar.
2. Click Edit to the right of the definition's name.
3. Click Share. The Share page appears.
4. Select the CCG users to share with, and click Share.
5. Click Save.

## Comparing Snapshots

CCG uncovers differences between ERP application setups by comparing snapshot occurrences. You can compare occurrences from different points in time and different ERP instances.

### Create a Comparison

To compare two snapshot occurrences, you will:

- Search for the occurrences to compare.
- Run the comparison.
- View the reports.

First, search for the occurrences to compare:

1. Select Workbench > CCG from the menu bar. A list of definitions appears.

Definition	Instance	Created	Type	Application	Created by
Accounts Receivable	flagstaffag2	03/10/2009	Snapshot	AR 12.0.4	BARRY
Accounts Payable	flagstaffag2	03/11/2009	Snapshot	AP 12.0.4	SGLASS

2. Find the definition that generated one of the occurrences you want to compare.
3. Click Occurrences to the right of the definition name. A list of occurrences appears.

Start Date/Time	Status	Instance	Definition	Type	Application	Scheduled by
11 MAR 09 02:22:17	Complete	flagstaffag2	Accounts Receivable	Snapshot	AR 12.0.4	SGLASS
11 MAR 09 01:39:38	Complete	flagstaffag2	Accounts Receivable	Snapshot	AR 12.0.4	SGLASS

4. Find the first occurrence that you want to compare. Either use the First, < Prev, Next >, and Last links to browse the list of all occurrences; or click Revise Search. Enter your search criteria and click Search to locate the occurrence.
5. Click Compare. A page displays the first occurrence and a search form.

6. If the second occurrence was generated by the same definition as the first, click Search to find the second occurrence. Once you have located the second occurrence, click Compare. If you want to generate the second occurrence now, click Schedule.

The Comparison Options page appears:

The following options are available:

- Compare Same Records. Matches primary records in two snapshot occurrences, and then identifies the differences in their fields' values.
- Compare Two Organizations/Sets of Books. Matches primary records in snapshots of two different organizations and/or sets of books, and then identifies the differences in their fields' values.

Both snapshots must cover the same instance, product family version, and objects; must have at least one global condition; and must have global conditions on the same parameters (i.e., both must have global conditions for Organization, for Set of Books, or for both Organization and Set of Books).

- Force Comparison/Map Values. Matches primary records according to your specifications, and then identifies the differences in their fields' values.

When you select Force Comparison/Map Values, the page refreshes, displaying the Add Values button.

Click the Add Values button. The page refreshes again, displaying Value A and Value B fields.

To map one primary record to another, select values for Values A and B, and click Save.

To perform a one-to-many comparison (e.g., to ensure setup conformity across various entities), specify only a baseline record in Value A (CCG compares all other primary records to this one) and leave Value B blank. Then click Save.

When you click Save, the page refreshes, displaying a summary of the mapping. To add another mapping, click Add Mapping. You can add as many mappings as you desire.

7. Click Schedule. The Schedule a Job page appears.
8. To generate the comparison immediately, click Schedule; to schedule it for later, change the Start options and click Schedule.
9. Watch the new job you've created. When the Comparison program is done, click Details to the right of Generate Comparison Occurrence.

Job ID	Status	User	Items to Execute	Start Date/Time
5023	✓ COMPLETED	SGGLASS	Configuration Controls Governor: Compare-Snapshots A: AccountsReceivable B: ...	2009-03-11 02:55:30 America/Los_Angeles
<b>Program</b>				
Generate Snapshot Occurrence		Configuration Controls Governor: AccountsReceivable	✓ Completed	2009-03-11 02:55:31 America/Los_Angeles <a href="#">Log</a> <a href="#">Details</a>
Generate Comparison Occurrence		Configuration Controls Governor: AccountsReceivable	✓ Completed	2009-03-11 02:55:31 America/Los_Angeles <a href="#">Log</a> <a href="#">Details</a>
5022	✓ COMPLETED	SGGLASS	Configuration Controls Governor: AccountsReceivable	2009-03-11 02:22:17 America/Los_Angeles
5021	✓ COMPLETED	SGGLASS	Configuration Controls Governor: Accounts Payable	2009-03-11 02:10:10 America/Los_Angeles

10. The CCG Comparison Objects page appears. To view an individual object's primary record comparison, click Values.

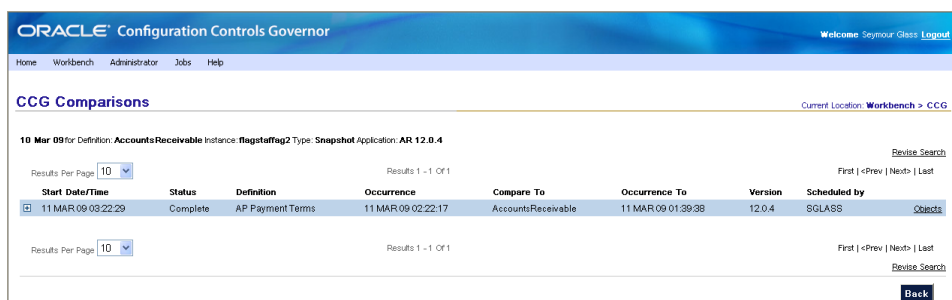
Object	Differences	Enabled	Values
AR Payment Terms	4	Yes	<a href="#">Values</a>
AR Transaction Types	6	Yes	<a href="#">Values</a>

11. To generate a report or see more details than are presented on-screen, select the items you want and then click the Export Selected button. Or, click the Export All button. The Export page appears. Select a format for the report and click Export to view the report.

## Review a Saved Comparison

CCG stores the comparisons you make, allowing you to review them at any time. To review a comparison:

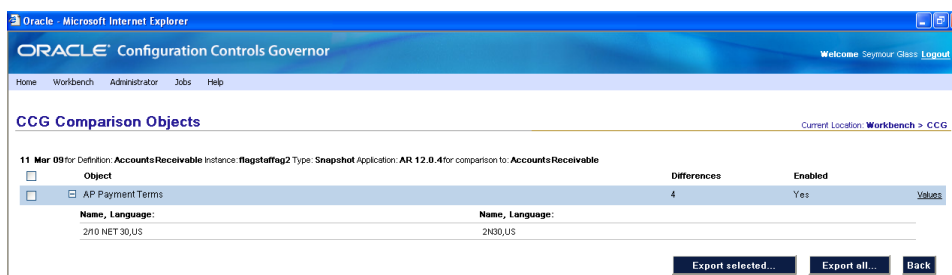
1. Select Workbench > CCG from the menu bar. A list of definitions appears.
2. Find the definition that contains the comparison that you want to view.
3. Once you have located the definition, click Comparisons to the right of its name. The CCG Comparisons page appears.



4. Find the comparison run that contains the comparison that you want to view. Do one of the following:
  - Use the First, < Prev, Next > and Last links to browse the list of comparison runs.
  - Click Revise Search. Enter your search criteria and click Search to locate the comparison that you want to view.

Expand any row to view the comparison details.

5. Click Objects to view the objects compared within the comparison run. The CCG Comparison Objects page appears.



6. View a report. Do either of the following:
  - Include some or all objects in the report. You can click the Export All button to include all objects in the report. Or, you can click the checkboxes to the left of the objects you want to include in the report, and then click the



Export Selected button. In either case, the following Export page appears. In it, Select a format for the report and click Export.

- Include selected values from one object in the report: Click Values to view an individual object's primary records.

To filter the values, click Revise Search.

Click the Export All button to include all values in the report. Or, click the checkboxes to the left of the values that you want to include, and click the Export Selected button. The Export page appears, as above. Select a format for the report and click Export.

7. Select the comparison report options and click Export.
8. View the report.



---

## Tracking Changes

The CCG change tracker monitors changes to ERP application setup data. Before you can use the change tracker, you must run one or more change tracking definitions, which specify the objects to monitor and the level of detail to record.

Each time you configure CCG for an ERP instance, it automatically generates change tracking definitions for the ERP applications that you have licensed. You can save a considerable amount of time by using these definitions instead of building your own from scratch.

To summarize, you will:

- Search for an auto-generated change tracking definition.
- Edit the definition to specify what to track.
- Run the definition to deploy change tracking functionality to the ERP instance.
- View the change tracker.
- Optionally, specify change tracker queries and alerts.

To create or edit definitions, you must have the CCG User role. To schedule definitions, you must have the Change Tracking Scheduler role.

### Search for an Auto-Generated Change Tracking Definition

To search for an auto-generated change tracking definition:

1. Log into CCG as the Baseline Definition Owner that was specified when the ERP Instance was configured (for more information, see “Quick Start: Configure CCG for each ERP instance: Configure CCG” in the *Configuration Controls Governor Administration Guide*).
2. Select Workbench > CCG from the menu bar. A list of definitions appears.
3. Find the change tracking definition named for the ERP application and instance to monitor (if you’ve configured more than one ERP instance, there will be an auto-generated definition for each instance-application pair). Do one of the following:
  - Use the First, < Prev, Next > and Last links to browse the list of definitions.
  - Click Revise Search. A group of search fields appears. In it, enter search criteria — for example, Type equals Change Tracking — and click Search.

# Edit the Definition to Specify What You Want to Track

Once you have located the definition, edit it:

1. Click Edit to the right of the definition name. The definition page appears (the objects listed depend on the application).

**ORACLE Configuration Controls Governor** Welcome Seymour Glass Logout

Home Workbench Administrator Jobs Help

**CCG Definition Workbench** Current Location: Workbench > CCG

---

**Definition Basics**

Name: **gl calendar r12 chgrk** Type: **Change Tracking**  
 Instance: **aspenag2** Application: **GL 12.0.4**  
☒ Include in Schedulable Items list

---

**Objects**

Object	All	Insert	Update	Delete
Accounting Calendar	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AutoAllocation Workbench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AutoPost Criteria Set	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chart of Accounts Mapping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Column Set	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concurrent Request Schedules	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Consolidation Definition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Consolidation Set	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Content Set	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conversion Rate Types	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Daily Rates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Define Budget	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Define Budget Organization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Define Budgetary Control Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Define Database Links	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Define Financial Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Define MassAllocations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Define Recurring Journal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Define and Assign Access Sets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Display Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Display Set	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Elimination Sets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Encumbrance Types	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Financial Report Set	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GL Accounts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Historical Rates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Journal Authorization Units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Journal Categories	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Journal Reversal Criteria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Journal Sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mass Maintenance Workbench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Open and Close Periods	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Period Types	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Row Order	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Statistical Units of Measure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Storage Parameters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Summary Accounts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Suspense Accounts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transaction Calendar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

[View object status](#) [View object history](#) [View tracker status](#)

---

**Programs**

Program	Stop After	Skip	Run Before	Run After	Notify
1. Deploy Change Tracking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

[Schedule](#) [Save](#) [Save As](#) [Restore](#) [Back](#)

2. Check the Include in Schedulable Items list checkbox.
3. Set the following checkboxes for each object you want to track:
  - All. Capture all inserts, updates, and deletions.
  - Insert. Capture inserts and new records.
  - Update. Capture updates to existing records.
  - Delete. Capture deletions of existing records.
4. Click Save.

# Run the Definition to Deploy Change Tracking

To deploy change tracking to the ERP instance:

1. Click Schedule.... The Schedule a Job page appears.

2. Click Schedule to start the job immediately. The View Current Jobs page appears.
3. Click Refresh to see your job.

Job ID	Status	User	Items to Execute	Start Date/Time
5073	<span style="color: green;">●</span> RUNNING	SGLASS	Configuration Controls Governor: gl calendar r12 chgtrk	2009-03-16 05:25:08 America/Los_Angeles

## View the Details

To view change tracking details:

1. Watch the job you created until the status of the Deploy Change Tracking program changes to Completed. Expand the job (click on its + sign).

Job ID	Status	User	Items to Execute	Start Date/Time										
5073	✓ COMPLETED	SGLASS	Configuration Controls Governor: gl calendar r12 chgtrk	2009-03-16 05:25:08 America/Los_Angeles										
<table border="1"> <thead> <tr> <th>Program</th><th>Definition</th><th>Status</th><th>Started</th><th></th></tr> </thead> <tbody> <tr> <td>Deploy Change Tracking</td><td>gl calendar r12 chgtrk</td><td>✓ Completed</td><td>2009-03-16 05:25:08 America/Los_Angeles</td><td><a href="#">Log</a> <a href="#">Details</a></td></tr> </tbody> </table>					Program	Definition	Status	Started		Deploy Change Tracking	gl calendar r12 chgtrk	✓ Completed	2009-03-16 05:25:08 America/Los_Angeles	<a href="#">Log</a> <a href="#">Details</a>
Program	Definition	Status	Started											
Deploy Change Tracking	gl calendar r12 chgtrk	✓ Completed	2009-03-16 05:25:08 America/Los_Angeles	<a href="#">Log</a> <a href="#">Details</a>										

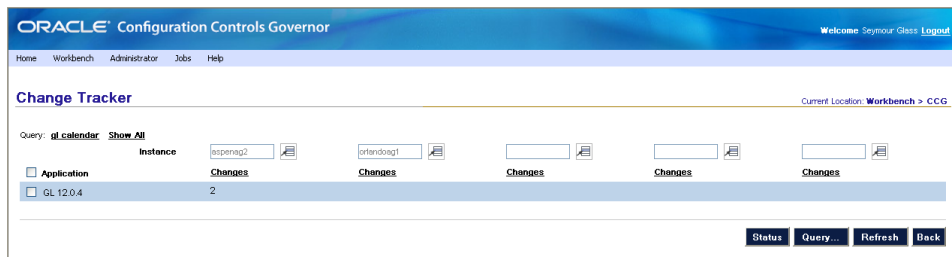
2. Click Details to the right of Deploy Change Tracking. The CCG Occurrence Objects page appears. (The following illustration shows the first few rows of an occurrence for the definition shown on page 16.)

Object	Insert	Update	Delete	
Accounting Calendar	Yes	Yes	Yes	<a href="#">Details</a>
AutoAllocation Workbench	No	No	No	<a href="#">Details</a>
AutoPost Criteria Set	No	No	No	<a href="#">Details</a>
Chart of Accounts Mapping	No	No	No	<a href="#">Details</a>
Column Set	No	No	No	<a href="#">Details</a>
Concurrent Request Schedules	No	No	No	<a href="#">Details</a>
Consolidation Definition	No	No	No	<a href="#">Details</a>
Consolidation Set	No	No	No	<a href="#">Details</a>
Content Set	No	No	No	<a href="#">Details</a>
Conversion Rate Types	No	No	No	<a href="#">Details</a>
Daily Rates	No	No	No	<a href="#">Details</a>
Define Budget	No	No	No	<a href="#">Details</a>

## Use the Change Tracker

To use the change tracker:

1. Select Workbench > CCG from the menu bar.
2. Click the Change Tracker button. The change tracker appears; it displays information collected by all deployed change tracking definitions. Here is an example:



To view an instance's applications, click any button in the Instance row, and select the instance.

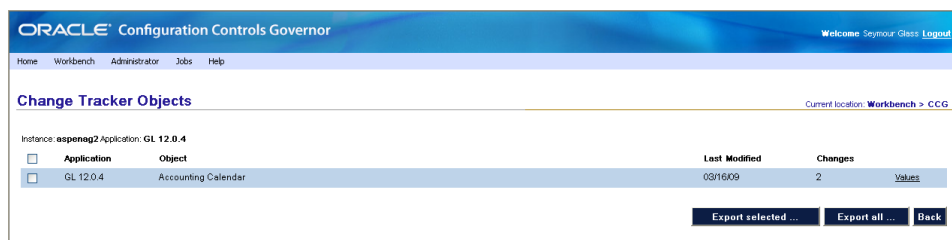
**Note:** If no applications are visible even after you choose an instance, select Jobs > View Current Jobs. Verify that the Change Tracking Transfer program has run at least once. (This program transfers change tracking data from the ERP instances to CCG.) If it has not, select Jobs > View Future Jobs and see whether it is scheduled to run. If it is not, contact your CCG Administrator.

If the information shown seems out of date, perhaps the Change Tracking Transfer program has not run recently. Select Jobs > View Current Jobs and determine when it last ran.

To view details about an instance's changes, click any Changes link.

To view information about specific applications' changes on an instance, click any of the checkboxes on the left, and then click Changes.

Here is an example:



Click Values to display further details.

Oracle Configuration Controls Governor

Welcome Seymour Glass Logout

Home Workbench Administrator Jobs Help

Change Tracker Object Values

Current location: Workbench > CCG

Instance: aspenag2 Application: GL 12.0.4 Object: Accounting Calendar

Show: ☒ Changed Values Only ☐ All Values

Results Per Page: 10

Results 1 - 1 Of 1

First < Prev | Next > Last

Revise Search

Date	Type	Table	User	Responsibility	Program	DB User	OS User	Last Modified	Changes
03/16/2009 09:34	Update	GL Periods	SYSADMIN	General Ledger Super User	fmmweb@aspen (TNS V1-V3)	APPS	sg2	03/16/09	2
Record	Field								
16 Period, test1-09-09	To			31-MAR-2009	18-MAR-2009			Yes	
03/15/2009 11:33	Insert	GL Periods	SYSADMIN	General Ledger Super User	fmmweb@aspen (TNS V1-V3)	APPS	sg2		
Record	Field								
16 Period, test1-09-09	To			31-MAR-2009				Yes	

Results Per Page: 10

Results 1 - 1 Of 1

First < Prev | Next > Last

Revise Search

Export selected ... Export all ... Back

You have the option to view only the values that have changed for the applications you selected (click on the Changed Values Only radio button) or all their values, changed or unchanged (click on the All Values radio button). If too many values are displayed, click Revise Search; in a Change Tracker Object Values page, use list boxes to set up filters for the values returned by the Change Tracker.

## Set Up Queries and Alerts

Optionally, you can set up queries and alerts. A query stores a set of criteria for filtering the data shown in the change tracker. The change tracker automatically loads the last query used.

An alert is an email message that lists new changes. Alerts are generated when the change tracking program runs. Alert recipients are specified in queries, so each alert message contains only the changes filtered by the query.

To set up a query:

1. From the initial Change Tracker page (shown on page 18), click the Query button. The Change Tracker Queries page appears (a few sample Queries are shown). You can add, edit and delete Queries using the links and buttons on this page.

Oracle Configuration Controls Governor

Welcome Seymour Glass Logout

Home Workbench Administrator Jobs Help

Change Tracker Queries

Current location: Workbench > CCG

Query in use: gl calendar

Query	Enabled	
ALL	Yes	Use Edit Delete
gl calendar	Yes	Use Edit Delete
po qic description	Yes	Use Edit Delete

Add query ...

Back

2. Click Add Query. The following page appears.

ORACLE Configuration Controls Governor

Welcome Seymour Glass Logout

Home Workbench Administrator Jobs Help

Change Tracker Queries

Current Location: Workbench > CCG

Add query:

Name  ☐ Enabled

Save

Back

3. Enter a Name, check the Enabled checkbox, and click Save. The page is re-freshed, displaying the Dates, Change Method, Types, Instances, Applications, Objects, Responsibilities, Users and Alerts sections

ORACLE Configuration Controls Governor

Welcome Seymour Glass Logout

Home Workbench Administrator Jobs Help

Change Tracker Queries

Current Location: Workbench > CCG

Add query:

Name  ☒ Enabled

Dates

From  To

Change Method

Types

☒ Insert ☒ Update ☒ Delete

Instances

Add instance

Applications

Add application

Objects

Add object

Responsibilities

Add responsibility

Users

Add user

Alerts

Add alert

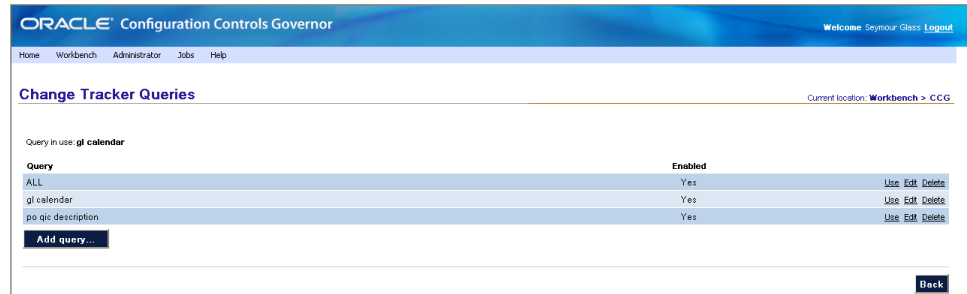
Save

Back

4. To find all changes for all instances, leave the rest of the query blank; to narrow the query's results, set one or more items.
  - Dates. Enter both values to specify a date range; enter only a From date to specify changes since that date; enter only a To date to specify changes up to that date; or leave blank for all dates.
  - Change Method. Specifies the origin of the change: Only application user's changes; Only SQL/nonstandard changes.
  - Types. Check any/all, or leave all blank for all types.
  - Instances. Specify one or more instances, or leave blank for all instances.
  - Applications. Specify one or more applications, or leave blank for all applications.
  - Objects. Specify one or more objects, or leave blank for all objects.
  - Responsibilities. Specify one or more responsibilities, or leave blank for all responsibilities.



- Users. Specify one or more users, or leave blank for all users.
  - Alerts. Specify one or more email addresses to send an alert message to each time the Change Tracking Transfer program discovers new changes.
5. Click Save. The list of queries reappears.



6. Click the Use link to the right of any query to cause the Change Tracker to display only the changes found by the query. Each time you visit the change tracker, it automatically loads the last query used.

To set up an alert:

1. Add or edit a query.
2. In the Alerts section, click Add Alert.... Enter an alert recipient's email address.
3. Add as many recipients as you like.
4. Set the rest of the query's options to select only the changes to be reported in the alert.
5. Click the Save button.



## Schedule Definitions and Work with Jobs

Many actions you take when using CCG, such as scheduling a definition, cause the creation of jobs. Each job is a sequence of one or more programs. (When you schedule a definition, you're really scheduling a job that contains the sequence of programs that you saw when you created or edited the definition.)

Because the programs are executed in a sequence, if a program cannot be completed, the remaining programs in the sequence will not be executed.

Each job is scheduled to run on one or more occasions. (See "Schedule a Job," below).

All jobs scheduled for the future are listed on the View Future Jobs page (select Jobs > Future Jobs from the menu bar). All jobs being executed, or that already have been executed, are listed on the View Current Jobs page (Jobs > Current Jobs). See "View a Job's Status or Details" (page 26) for more information.

### Schedule a Job

To schedule a job:

1. Prepare all definitions to be included in the job.
2. Go to the Schedule a Job page (select Jobs > Schedule a Job from the menu bar, or click Schedule... while editing a definition or performing an administrative function).

**ORACLE<sup>®</sup> Configuration Controls Governor** Welcome Seymour Glass Logout

Home Workbench Administrator Jobs Help

**Schedule a Job** Current Location: Jobs > Schedule a Job

**Start**  
☒ Immediately  
☐ On  at  (HH24mm)  America/Los\_Angeles (Pacific Daylight Time)

**Repeat**  
☒ None (run once only)  
☐ Minute  
☐ Day  
☐ Week  
☐ Month  
☐ Year

**...until**  
☒ No End Date  
☐ End After  Occurrences  
☐ End By

**Notify when**  
☐ Completed ☐ Terminated ☐ Error Email

**Items To Execute**

3. In the upper part of the page, set schedule options. The default is to run the job once, immediately. If you select On..., you can choose these Repeat options:

- Minute — repeat every  $n$  minutes

**Repeat**

☐ None (run once only) Every  minutes  
☒ Minute  
☐ Day  
☐ Week  
☐ Month  
☐ Year

- Day — repeat every  $n$  days, every weekday, or every weekend day

**Repeat**

☐ None (run once only) ☐ Every  Days  
☐ Minute ☒ Every weekday  
☒ Day ☐ Every weekend  
☐ Week  
☐ Month  
☐ Year

- Week — repeat every  $n$  weeks on specified days

**Repeat**

☐ None (run once only) ☒ Every  week(s) on  
☒ Sunday ☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday ☒ Friday ☒ Saturday  
☐ Minute  
☐ Day  
☒ Week  
☐ Month  
☐ Year

- Month — repeat every  $n$  months on a specified day

**Repeat**

☐ None (run once only) ☒ Day  Of Every  month(s)  
☐ Minute ☐ The  First  Sunday  Of Every  month(s)  
☐ Day  
☐ Week  
☒ Month  
☐ Year

- Year — repeat every year on the specified day

**Repeat**

☒ Every  January   
☐ Minute ☐ The  First  Sunday  Or  January   
☐ Day  
☐ Week  
☐ Month  
☒ Year

4. In the lower part of the page, include all items to be executed, in the desired order. When you click Add Item..., the Add Item to Job page appears.

5. When you select a Program Name, additional fields might appear, in which you can set parameters for the job you've chosen. (These vary according to job. For example, for a Create Tablespaces job, you must set parameters that specify the

instance on which the tablespace is to be created and the name of the tablespace.) Set all necessary parameters, and click Save to add the item to the job.

- The following page appears, indicating that the item has been successfully added to the job, and offering the opportunity to select more items. To add an item, click the Add Item button. You can add as many items as you like.

## Schedule a Job

Current Location: [Jobs](#) > [Schedule a Job](#)

**SUCCESS** Job has been added to the list

### Items To Execute

#### Item

+ Platform: Create Tablespaces

[Delete](#)

Add Item

Back

- When you are done adding items, click Back. The original Schedule a Job page reappears, displaying the items (programs) you've included in the job.

**ORACLE<sup>®</sup> Configuration Controls Governor** Welcome Seymour Glass [Logout](#)

[Home](#) [Workbench](#) [Administrator](#) [Jobs](#) [Help](#)

## Schedule a Job

Current Location: [Jobs](#) > [Schedule a Job](#)

**Start**

☒ Immediately  
☐ On  at  (#h24mm)  America/Los\_Angeles (Pacific Daylight Time)

**Repeat**

☒ None (run once only)  
☐ Minute  
☐ Day  
☐ Week  
☐ Month  
☐ Year

**...until**

☒ No End Date  
☐ End After  Occurrences  
☐ End By

**Notify when**

☐ Completed ☐ Terminated ☐ Error Email

**Items To Execute**

+ Platform: Create Tablespaces [Delete](#)

Add Item

[Schedule](#) [Clear](#)

- When you are done, click Schedule. If the job is scheduled to run immediately, the View Current Jobs page appears.

**ORACLE<sup>®</sup> Configuration Controls Governor** Welcome Seymour Glass [Logout](#)

[Home](#) [Workbench](#) [Administrator](#) [Jobs](#) [Help](#)

## View Current Jobs

Current Location: [Jobs](#) > [View Current Jobs](#)

Results Per Page  Results 1 - 10 Of 16 [Revise Search](#)

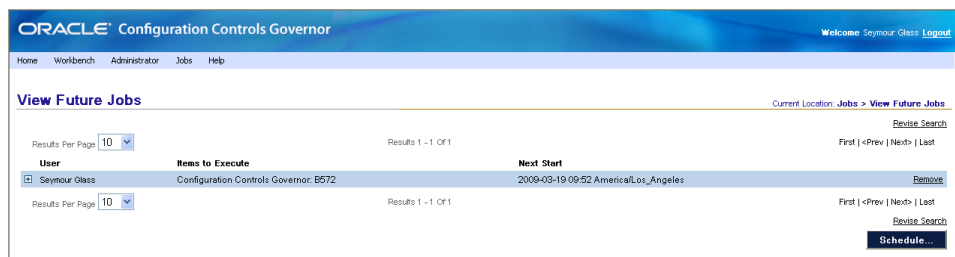
Job ID	Status	User	Items to Execute	Start Date/Time
5015	<span style="color: green;">●</span> RUNNING	BARRY	Configuration Controls Governor: Accounts Receivable	2009-03-10 01:56:26 America/Los_Angeles
5014	✓ COMPLETED	SRINU	Configuration Controls Governor: test	2009-03-10 00:46:01 America/Los_Angeles
5013	✓ COMPLETED	ANIL	Configuration Controls Governor: Synchronize Metadata to Target Instance	2009-03-09 16:33:43 America/Los_Angeles
5012	✓ COMPLETED	SRINU	Configuration Controls Governor: Change Tracking Transfer	2009-03-09 20:53:49 America/Los_Angeles
5011	✓ COMPLETED	SRINU	Configuration Controls Governor: Change Tracking Transfer	2009-03-09 20:36:46 America/Los_Angeles
5010	✓ COMPLETED	SRINU	Configuration Controls Governor: Change Tracking Transfer	2009-03-09 20:25:50 America/Los_Angeles
5009	✓ COMPLETED	SRINU	Configuration Controls Governor: test_ashrgp	2009-03-08 20:14:12 America/Los_Angeles
5008	✓ COMPLETED	AMADMIN	Configure Configuration Controls Governor	2009-03-08 19:40:16 America/Los_Angeles
5007	✓ COMPLETED	AMADMIN	Configure Integrity Agent	2009-03-08 19:41:01 America/Los_Angeles
5006	✓ COMPLETED	SRINU	Configuration Controls Governor: chg trk AR	2009-03-08 19:36:56 America/Los_Angeles

Results Per Page  Results 1 - 10 Of 16 [First](#) | [Prev](#) | [Next](#) | [Last](#)

[Revise Search](#)

[Schedule...](#) [Refresh](#)

If the job is scheduled to run in the future, the View Future Jobs page appears.



## View a Job's Status or Details

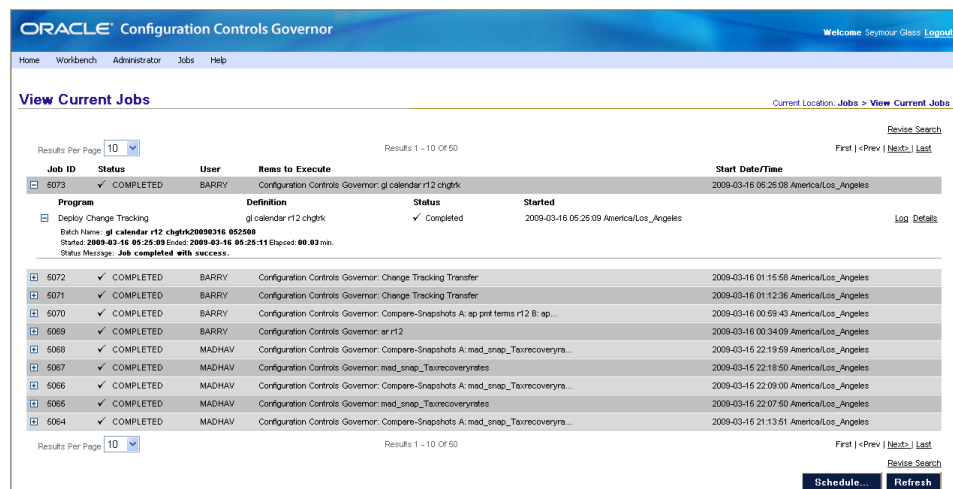
To see the status of:

- A job that's running now, or ran in the past: Select Jobs > View Current Jobs from the menu bar. The View Current Jobs page appears (see page 25); the most recently scheduled jobs are listed, sorted by job ID, newest ID first.
- A job that will run in the future: Select Jobs > View Future Jobs from the menu bar. The View Future Jobs page appears (see above); jobs are sorted by start date/time, most imminent jobs first.

If you don't see the job you're looking for, you can increase the number of results per page; Click the Next link to see the next page of jobs; or click Revise Search, fill in the Search page, and click the Search button.

On the View Current Jobs page, jobs may be at any of the following statuses: Pending, Running, Paused, Error, Terminating, Terminated, Complete, or Warning. The View Future Jobs page does not display status, because all its jobs have the same status — Pending.

In either page, click on a job's + icon to see its details and control buttons.



Depending on the job's status, some of these buttons could appear:

- If the job's execution has been paused: Click Resume Job to resume execution of the paused job.
- If the job is being executed, or if its execution has been paused: Click Terminate Job to cancel the job. Note that not all jobs can respond to a termination request.

For current/past jobs, one or both of these links appear to the right of each program:

- **Log:** Click this to view log information, including error messages.
- **Details:** Click this to view additional details about the program's execution, and all reports generated by the program.

## Modify the Execution of a Job

To cancel a current job:

1. Find the job on the View Current Jobs page.
2. Click the job's Terminate Job button. The job's status changes to Terminating. Once the currently running program terminates or completes, the job's status changes to Terminated.

To cancel a future job:

1. Find the job on the View Future Jobs page.
2. Click the job's Remove link.

To change the schedule for a job:

1. Cancel future execution of the job.
2. Schedule a new job.

To reschedule a job after all occurrences in the original schedule have completed, simply schedule the new job.

To edit a definition that is schedule to run in the future:

1. On the View Future Jobs page, remove all jobs that use the definition.
2. Edit the definition.
3. Reschedule the jobs that you removed in Step 1.

To add or remove definitions or programs from a job, or to change their order of execution:

1. Cancel future execution of the job.
2. Schedule a new job.




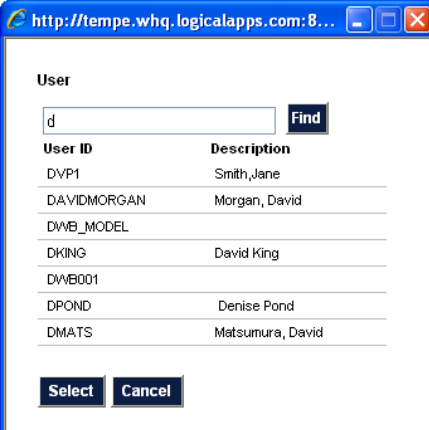


## Reference

This chapter serves as a reference to several topics: Using lists of values, creating a user profile, viewing and adding definitions, using the change tracker, programs included within CCG, and reports generated by CCG.

### Using LOVs

Many CCG screens display fields that present lists of values (LOVs) from which a user can select. Each such field displays the following button: . Click on the button to open a window like the following one:



User ID	Description
DVP1	Smith, Jane
DAVIDMORGAN	Morgan, David
DWB_MODEL	
DKING	David King
DWB001	
DPOND	Denise Pond
DMATS	Matsumura, David

The window's appearance varies depending on the list, but always has a Find field at its top. To use it:

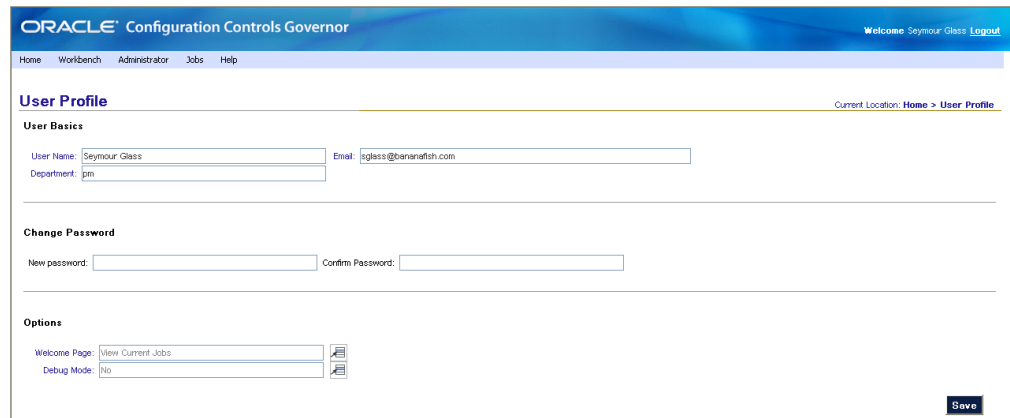
1. Enter a string in this field and click Find to display all items that begin with the string

Capitalization is ignored (e.g., the value *pay* finds payables, Payables, and Payment Records). Use the percent character (%) as a wildcard that represents zero or more characters (e.g., the value *%pay* finds payables, Payables, Payment Records, Overpayments and Delayed Payment).

2. In the resulting list, click on the value you want, and then on the Select button.

## User Profile

Change your personal settings by selecting Home > User Profile from the menu bar. The User Profile page appears.



The screenshot shows the Oracle Configuration Controls Governor User Profile page. The page has a blue header with the Oracle logo and the text 'Configuration Controls Governor'. On the right side of the header, it says 'Welcome Seymour Glass Logout'. Below the header is a navigation bar with links: Home, Workbench, Administrator, Jobs, and Help. The main content area is titled 'User Profile' and has a sub-header 'User Basics'. Under 'User Basics', there are three input fields: 'User Name' (containing 'Seymour Glass'), 'Email' (containing 'sglass@bananafish.com'), and 'Department' (containing 'pm'). Below these fields is a section titled 'Change Password' with two input fields: 'New password:' and 'Confirm Password:'. At the bottom of the page is a section titled 'Options' with two input fields: 'Welcome Page' (containing 'View Current Jobs') and 'Debug Mode' (containing 'No'). There is a 'Save' button at the bottom right of the page.

The page contains these fields:

- User Basics
  - User Name. Your full name.
  - Department. Your department.
  - Email. Your email address.
- Change Password
  - New Password. To change your password, enter a value in this field (and re-enter it in the Confirm Password field. Otherwise, leave these fields empty.  
Your password may be up to 30 characters. It may not contain these characters: ! | / = \$ & @ " ' ` ,
  - Confirm Password. To complete a password change, re-enter the new password here.
- Options
  - Welcome Page. The page that is displayed after you log in.
  - Debug Mode. The default setting is Off. When it is set to On, each command you perform generates additional computational load on the CCG instance, so use On only when directed by your CCG Administrator

## CCG Definition

To view existing CCG definitions or add new ones, select Workbench > CCG from the menu bar. You will see a list of existing definitions (as shown at the top of the next page. You can see more (or different) results by changing Results Per Page, clicking Next >, or clicking Revise Search.

ORACLE<sup>®</sup>

Configuration Controls Governor

HomeWorkbenchAdministratorJobsHelp

Welcome Seymour GlassLogout

CCG Definitions








Current Location: Workbench > CCG

Results Per Page10

Results 1 - 7 Of 7

Revises Search

First | <Prev | Next> | Last

Definition	Instance	Created	Type	Application	Created by		
 gl calendar r12 chgtrk	aspenag2	03/15/2009	Change Tracking	GL 12.0.4	BARRY		OccurrencesEdit
 ap pmt terms r12	aspenag2	03/15/2009	Snapshot	AP 12.0.4	BARRY	Comparisons	OccurrencesEdit
 gl calendar r12	aspenag2	03/15/2009	Snapshot	GL 12.0.4	BARRY	Comparisons	OccurrencesEdit
 ar r12	aspenag2	03/16/2009	Snapshot	AR 12.0.4	BARRY	Comparisons	OccurrencesEdit
 B572	aspenag2	03/16/2009	Snapshot	AR 12.0.4	BARRY	Comparisons	OccurrencesEdit
 ap pmt terms 11i	orlandoag1	03/15/2009	Snapshot	AP 11.5.10	BARRY	Comparisons	OccurrencesEdit
 gl calendar 11i	orlandoag1	03/15/2009	Snapshot	GL 11.5.10	BARRY	Comparisons	OccurrencesEdit

Results Per Page10

Results 1 - 7 Of 7

First | <Prev | Next> | Last

Revises Search

Add definition...

Change Tracker

Click Edit to view a definition, or Add Definition... to add a new one. In either case, a Definition Workbench page appears.

ORACLE Configuration Controls Governor						Welcome Seymour Glass Logout							
Home Workbench Administrator Jobs Help													
CCG Definition Workbench						Current Location: Workbench > CCG							
Definition Basics													
Name Accounts Receivable				Type Snapshot									
Instance flagstaffag2				Application AR 12.0.4									
<input type="checkbox"/> Include in Schedulable Items list													
Objects													
Add object Add all objects													
Global Conditions													
Ledger Set													
Ledger													
Organization													
Lock Objects and Conditions													
Sharing													
Share													
Programs													
Program		Stop After	Skip	Run Before	Run After	Notify							
1. Generate Occurrence		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>							
Schedule Save Save As Restore Back													

The page contains these fields:

- Definition Basics
  - Name. A short name that will identify this definition.
  - Instance. ERP instance that contains the application setup data to snapshot or track.
  - Type. There are two options. To report on ERP application setup data, choose Snapshot. To monitor changes to setup data, choose Change Tracking.
  - Application. ERP application to snapshot or track.
  - Include in Scheduled Items List. When checked, this definition will appear in the list of schedulable items when scheduling jobs. Disabled until at least one object has been added to the definition.
- Programs
  - Stop After. When this option is checked, execution of the job will pause after this program completes. This option is disabled if the definition contains only one program.

- **Skip.** When this option is checked, this program will not be executed. This option is disabled if the definition contains only one program.
- **Run Before.** Java method or PL/SQL to execute before the program. CCG pauses until it receives a return code (the value of which is disregarded). Any error causes CCG to skip execution of the program (and anything entered in Run After).

For a Java method, use this syntax:

```
Java:/fully-qualified-class-name.method-name()
```

In this statement, fully-qualified-class-name includes the full path and filename of the class, and the name of the class itself. The file must reside on the computer that hosts the CCG Home schema. The method must be static, and cannot be main. No parameters can be passed to the method. For example:

```
Java:/myDir/myClassFile.myClass.myMethod()
```

For PL/SQL, use this syntax:

```
package.process()
package.function()
process()
function()
```

- **Run After.** Java method or PL/SQL to execute after the program. Uses the same syntax as Run Before.
- **Notify.** When checked, an email is sent when the program's execution ends. The email is sent to the email address entered on the Schedule a Job page.

The page contains these buttons:

- **Schedule.** Saves the changes you've made on the definition page, displays the Schedule a Job page, and adds the definition to the list of items to execute.
- **Save.** Saves the changes made on the definition page, and refreshes the page.
- **Save As.** Gives you the option of saving the definition with a new name and instance. If you choose a new instance, note that some of the definition's features could be lost if your permissions for the new instance are different than for the current one.
- **Restore.** Discards the changes you've made on the definition page, and refreshes the page with the previously stored values.
- **Back.** Discards the changes you've made on the definition page, and displays a list of existing definitions.

The page also contains some or all of these buttons (depending on the type chosen):

- **Lock Objects and Conditions.** Prevents further editing of objects and conditions, and permits more actions, some depending on the definition's type.
- **Share.** Shares the definition with another CCG user.
- **Add object...** Displays the Objects page, where you can add objects to be acted upon.
- **Add module.** Loads all objects belonging to the definition's application, replacing any existing objects. You can edit the objects once they have been loaded.

For a change tracking definition, there are also these objects buttons:

- View object status. Displays the Change Tracking Object Status Report, which shows current status of the definition's deployed objects.
- View object history. Displays the Change Tracking Object History Report, which shows deployment history of the definition's objects.
- View tracker status. Displays the Change Tracking Trigger Status Report, which shows the definition's enabled change tracking triggers.

## Objects

You can specify objects to be acted upon by the definition. The objects available depend on the definition's application.

Add objects by clicking Add object... on the definition page. The Objects page appears. The fields on this page vary depending on the object chosen; here is an example.

ORACLE Configuration Controls Governor

Welcome Seymour Glass Logout

Home Workbench Administrator Jobs Help

CCG Definition Workbench

Current Location: Workbench > CCG

Objects Definition: Accounts Receivable Instance: flagstaff2 Type: Snapshot Application: AR 12.0.4

Add object...

Object: Payment Terms ☒ Enabled

	Operator	Value
Name	Select one	
Description	Select one	
Allow Discount on Partial Payments	Select one	
Prepayment	Select one	
Credit Check	Select one	
Billing Cycle	Select one	
Base Amount	Select one	
Discount Basis	Select one	
Effective Date From	Select one	
Effective Date To	Select one	
Print Lead Days	Select one	
Installment Options	Select one	

Save Cancel

Back

When type is Snapshot, the page contains these fields.

- Add Object / Edit Object
  - Object. Group of setup data to be recorded. Clicking will list the objects that belong to the ERP applications. CCG includes a wide range of objects, and you can use MetaBuilder to add custom objects.
  - Enabled. When checked, the object's setup data will be recorded whenever the definition is executed.
  - Field1, Field2, ...FieldN. CCG uses values entered here to filter the data to be recorded. The fields displayed depend on the object chosen; until you choose an object, no fields are displayed.

In general, when you click to the right of a field, all possible values are displayed, regardless of the security groups you belong to. (Security groups can limit your access to specific applications, business groups, organization units, and sets of books.) Snapshot results will contain only the data permitted by your security groups. For information about security groups, see the *Configuration Controls Governor Administration Guide*.

The page contains these buttons and links:

- Edit. Refreshes the page and lets you edit the object's settings.
- Delete. Removes the object from the list of conditions and refreshes the page.
- Save. Saves your changes to the object's settings and refreshes the page.
- Cancel. Discards your changes to the object's settings and refreshes the page.
- Back. Discards any unsaved changes and displays the definition page.

## Global Conditions

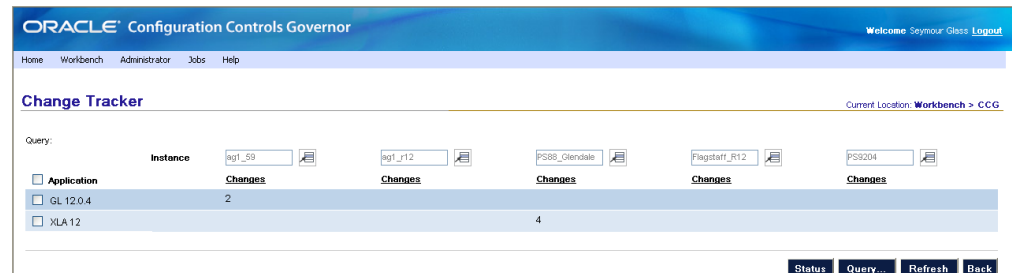
Snapshot definitions let you specify conditions that are applied to all objects:

- Organization (Oracle E-Business Suite release 11.5.10 or 12.0.4): ERP organization to include in the snapshot.
- Set of Books (Oracle E-Business Suite release 11.5.10): ERP set of books to include in the snapshot.
- Ledger and Ledger Set (Oracle E-Business Suite release 12.0.4): ERP ledgers and ledger sets to include in the snapshot.
- SetID (PeopleSoft Enterprise). Used to gather values such as vendors, ChartFields, or customers into groups. Can be used by any number of business units.

## Change Tracker

The change tracker displays information collected by all deployed change tracking definitions, and transferred back to CCG by the Change Tracking Transfer program.

To view the change tracker, select Workbench > CCG from the menu bar, then click the change tracker button. Here is an example with a few applications and instances:



For details on using the change tracker, see “Use the Change Tracker” (page 18).

## Queries and Alerts

Queries store sets of criteria for filtering the data shown in the change tracker. The change tracker automatically loads the last query used.

Alerts are email messages that list new changes. They are generated whenever the Change Tracking Transfer program runs. Alert recipients are specified in queries, so each alert message contains only the changes filtered by the query.

For details on queries and alerts, see “Set Up Queries and Alerts” (page 19).

## CCG Programs

CCG consists of these programs:

- **Change Tracking Transfer**  
Change tracking definitions only: Gathers change information from the ERP instances, stores it in the CCG Home instance, and sends alerts.
  - **Status: In progress**  
CCG is in the process of gathering the information and storing it in the CCG Home instance.
  - **Status: Error**  
Review the Change Tracking Transfer program log file, resolve the error, and reschedule the program.
  - **Status: Complete**  
Review Change Tracking Transfer program log file.
- **Generate Occurrence**  
Retrieves the setup data specified by your definition.
  - **Status: In progress**  
CCG is in the process of retrieving the data.
  - **Status: Error**  
Review the Generate Occurrence log file, resolve the error, and reschedule the definition. Option: Review and modify the definition conditions.
  - **Status: Complete**  
Review the Generate Occurrence reports.

## CCG Reports

CCG reports are generated each time you create an occurrence of a CCG definition. They are generated by the Generate Occurrences program. To view reports, schedule the definition. Select Jobs, then View Current Jobs or View Past Jobs from the menu bar. Locate the definition's job and expand it (click on its plus sign), then click Details to the right of a Generate Occurrences label, and finally click either on Export Selected or Export All.

- Snapshot reports display field-level ERP application setup data for a specified application and object.
- Occurrence Comparison reports display the difference in field-level ERP application setup data for two occurrences of the same object.
- Change Tracking Details by Object reports display the changes to ERP application setup data for deployed change tracker objects.

CCG also provides the following reports, which can be generated by clicking the appropriate button in any change tracking definition:

- **View object status.** Displays the Change Tracking Object Status Report, which shows current status of the definition's deployed objects.

- View object history. Displays the Change Tracking Object History Report, which shows deployment history of the definition's objects.
- View tracker status. Displays the Change Tracking Trigger Status Report, which shows the definition's enabled change tracking triggers.

Here are samples from those reports:

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### Change Tracking Object Status

Start: March 16, 2009 09:10 AM UNK

Instance: 102

Scheduled By: barry greenhut

Show Never Enabled: ALL

Instance: 102

Status	Application	Object	Last Update	Last Updated By
Disabled	FND 12.0.4	Attachment Functions	15-Mar-09 16:42:39	AMADMIN
Disabled	FND 12.0.4	Audit Industry Template	15-Mar-09 16:42:40	AMADMIN
Disabled	FND 12.0.4	Concurrent Program Libraries	15-Mar-09 16:42:45	AMADMIN
Disabled	FND 12.0.4	Document Entities	15-Mar-09 16:42:45	AMADMIN
Disabled	FND 12.0.4	Document Sequences	15-Mar-09 16:42:45	AMADMIN
Disabled	FND 12.0.4	Form Personalizations	15-Mar-09 16:42:45	AMADMIN
Disabled	FND 12.0.4	Forms	15-Mar-09 16:42:45	AMADMIN
Disabled	FND 12.0.4	Key Flexfields	15-Mar-09 16:42:45	AMADMIN
Disabled	FND 12.0.4	Messages	15-Mar-09 16:42:45	AMADMIN
Disabled	FND 12.0.4	Natural Languages	15-Mar-09 16:42:45	AMADMIN
Disabled	FND 12.0.4	Sequences	15-Mar-09 16:42:45	AMADMIN
Disabled	FND 12.0.4	Tables	15-Mar-09 16:42:45	AMADMIN
Disabled	FND 12.0.4	Views	15-Mar-09 16:42:45	AMADMIN
Disabled	GL 12.0.4	AutoAllocation Workbench	16-Mar-09 05:25:10	AMADMIN
Disabled	GL 12.0.4	AutoPost Criteria Set	16-Mar-09 05:25:10	AMADMIN

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### Change Tracking Object History

Start: March 16, 2009 09:13 AM UNK

Instance: aspenag2

Scheduled By: barry greenhut

Application: GL 12.0.4

Object: ALL

Application: GL 12.0.4

Object	Status	Effective	Last Updated By	Insert	Update	Delete
Accounting Calendar	Enabled	16-Mar-09 05:25:09	BARRY	Yes	Yes	Yes
Accounting Calendar	Enabled	15-Mar-09 15:14:59	KALYAN	Yes	Yes	Yes
Accounting Calendar	Enabled	15-Mar-09 02:30:08	BARRY	Yes	Yes	Yes
AutoAllocation Workbench	Disabled	16-Mar-09 05:25:10	BARRY	No	No	No
AutoAllocation Workbench	Disabled	15-Mar-09 15:15:01	KALYAN	No	No	No
AutoAllocation Workbench	Disabled	15-Mar-09 02:30:13	BARRY	No	No	No
AutoPost Criteria Set	Disabled	16-Mar-09 05:25:10	BARRY	No	No	No
AutoPost Criteria Set	Enabled	15-Mar-09 15:15:01	KALYAN	Yes	Yes	Yes
AutoPost Criteria Set	Disabled	15-Mar-09 02:30:13	BARRY	No	No	No
Chart of Accounts Mapping	Disabled	16-Mar-09 05:25:10	BARRY	No	No	No
Chart of Accounts Mapping	Disabled	15-Mar-09 15:15:03	KALYAN	No	No	No
Chart of Accounts Mapping	Disabled	15-Mar-09 02:30:13	BARRY	No	No	No



## Change Tracking Trigger Status

Start Date/Time: March 16, 2009 09:16 AM UNK

Instance: aspenag2

Scheduled By: barry greenhut

Application: ALL

Enabled Object: ALL

Application: AP 12.0.4

Object: AP Payment Terms

Trigger	Table	Last Update	Status
AP_TERMS_TL1985_4992_AM	AP_TERMS_TL	15-Mar-09 17:18:46	VALID
AP_TERMS_LINES1985_4991_AM	AP_TERMS_LINES	15-Mar-09 17:18:46	VALID

Object: Aging Periods

Trigger	Table	Last Update	Status
AP_AGING_PERIODS2003_4946_AM	AP_AGING_PERIODS	15-Mar-09 17:18:46	VALID
AP_AGING_PERIOD_LI2003_4947_AM	AP_AGING_PERIOD_LINES	15-Mar-09 17:18:46	VALID

Object: Bank Charges

Trigger	Table	Last Update	Status
AP_BANK_CHARGES2067_4954_AM	AP_BANK_CHARGES	15-Mar-09 17:18:47	VALID
AP_BANK_CHARGE_LIN2067_4955_AM	AP_BANK_CHARGE_LINES	15-Mar-09 17:18:47	VALID

Object: Card Programs

Trigger	Table	Last Update	Status
AP_CARD_PROGRAMS_A2085_4963_AM	AP_CARD_PROGRAMS_ALL	15-Mar-09 17:18:47	VALID

