

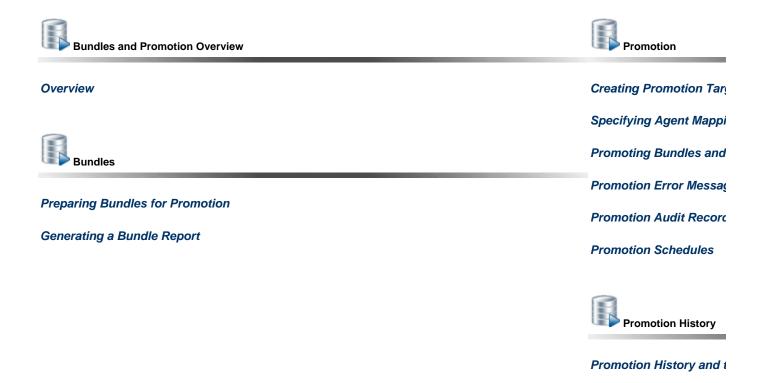
Universal Controller 6.3.x

Bundles and Promotion

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Bundles and Promotion





The information on these pages also is located in the Universal Controller 6.3.x Bundles and Promotion.pdf.

Bundles and Promotion Overview

- Overview
- Best Practices
 - · Promoting from Different Versions of the Controller
 - Creating Objects
- Bundling and Promoting Process
- Diagnosing Promotion Failures

Overview

The Universal Controller Bundles and Promotion feature allows you to select and bundle a group of Controller records and "promote" them from a source Controller to a target Controller. (If desired, you also can promote a single record.)

For example, you can use these features when you create your Workflows on a development Controller then move them to a QA Controller for testing. Once you are satisfied with the stability of the Workflows, you can promote them to your production Controller.

Best Practices

Promoting from Different Versions of the Controller

Promoting to Same or Later Versions

Supported

Promotion from Controller 6.x to Controller 6.x of the same or later version, release, modification, and maintenance level is supported.

For example:

- 6.2.0.0 to 6.2.2.1
- 6.1.3.0 to 6.1.3.2

Promoting to Earlier Versions

Supported

Starting with version 6.3.0.0, promotion from Controller 6.3.x to an earlier 6.3.x version, release, modification, or maintenance level of the Controller is supported.

Not Supported

Promotion from Controller 6.3.0.0 or 6.2.x to any earlier version, release, modification, or maintenance level of the Controller is not supported.

For example:

- 6.3.0.0 to 6.2.2.2
- 6.2.2.2 to 6.2.2.1
- 6.2.2.2 to 6.1.3.0
- 6.1.3.2 to 5.2.0.5



Note

Promoting to an earlier version, when supported, requires that the promotion payload not include features or options that are unknown to the target promotion server. Any violation of this will prevent the promotion from continuing, as promoting those changes could have unintentional consequences.

Creating Objects

To ensure optimal bundling and promotion of records, make sure that you create bundles on one Controller and promote them to another Controller.

Do not create objects individually on different Controllers.

Bundling and Promoting Process

The general process for bundling and promoting your data is:

Step 1	Prepare a Bundle for Promotion record.
Step 2	Add records to a Bundle.
Step 3	Create a Promotion Target record for each target Controller.
Step 4	Specify Agent mappings between the source and target Controllers.
Step 5	Promote the Bundle to the target Controller.

These features use web services calls to communicate when you are promoting Bundles of records from one Controller to another.

To see a demonstration of how to bundle and promote records, watch the Bundling and Promoting video.

Diagnosing Promotion Failures

The following error messages are provided for various promotion failure scenarios.



Note

For a bundle-less promotion, the beginning of each error message is:

Promotion failed with the following error(s):

For an invalid user name and/or password:

Promotion of bundle "bundle-name" failed with the following error(s): Cluster node information could not be determined for the promotion target because the user is not authorized; please verify the promotion target user and password.

For a valid user name and password, except the user is not authorized for Web Service Access:

Promotion of bundle "bundle-name" failed with the following error(s): Cluster node information could not be determined for the promotion target because the user is not authorized for Web Service Access; please verify the promotion target user has Web Service Access enabled.

For an attempt to promote to a target Universal Controller that is still initializing (starting up):

Promotion of bundle "bundle-name" failed with the following error(s): Cluster node information could not be determined for the promotion target because the Web Service is unavailable; the target Universal Controller may still be initializing.

For an invalid hostname:

Promotion of bundle "bundle-name" failed with the following error(s): Cluster node information could not be determined for the promotion target because the host is unknown (hostname).

For a valid hostname but no service to accept the connection:

Promotion of bundle "bundle-name" failed with the following error(s): Cluster node information could not be determined for the promotion target (Connection refused: connect).

For an attempt to promote to a pre-6.3.0.0 release from a 6.3.0.0 or later release; both of the following error messages:

Promotion of bundle "bundle-name" failed with the following error(s): Cluster node release level for the promotion target could not be determined and one or more items being promoted require a minimum release level of 6.3.0.0.

Promotion of bundle "bundle-name" failed with the following error(s): Promotion to an earlier release only supported for target releases starting with 6.3.0.0.

For an attempt to promote a definition, or a definition using a particular feature, that is not recognized by the promotion target:

Promotion of bundle "bundle-name" failed with the following error(s): Cluster node release level for the promotion target is 6.x.x.x, which does not meet the required release level of 6.x.x.x.

Preparing Bundles for Promotion

- Overview
 - · Creating a Bundle for Promotion by Selecting Individual Records
 - Creating a Bundle for Promotion by Date
 - Creating a Bundle for Promotion by Business Services
 - Promoting Bundles by Business Service Membership
 - Bundle Details
- Adding and Removing Records in a Bundle
 - Adding and Removing Records from the Bundle Details
 - Adding a Record to a Bundle from the Record Details
 - Adding Multiple Records to a Bundle from a Records List
- · Displaying the Bundles List for a Record
- Reports



Your user ID must have the ops_bundle_admin role to use this feature.

Overview

There are four methods of preparing a Bundle for promotion. Each method involves creating a Bundle and selecting records to be included in the Bundle.

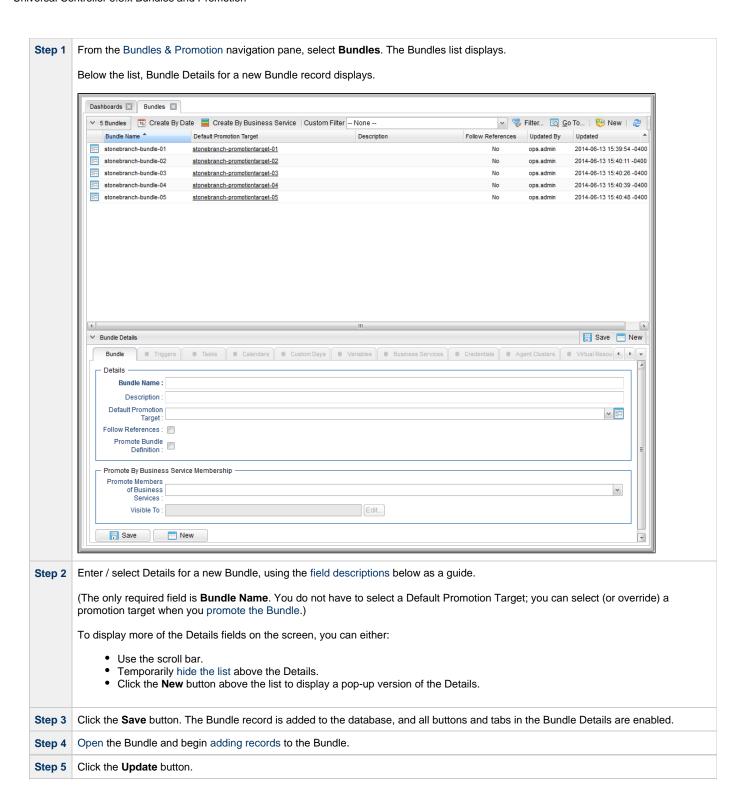
- 1. Select individual records to include in a Bundle.
- 2. Automatically create a Bundle, including all records of specified record types created or updated on or after a specified date, by Creating a Bundle for Promotion by Date.
- 3. Automatically create a Bundle, including all records of specified record types that are members of one or more specified Business Services, by Creating a Bundle for Promotion by Business Services.
- 4. Configure the Promote By Business Service Membership section of a Bundle to dynamically include all records belonging to one or more business services at the time of promotion.

For each method, you can manually add additional records to a Bundle after it has been created.

Any records explicitly added to a Bundle can be removed from the Bundle after it has been created. However, if the Promote By Business Service Membership feature is configured for a Bundle, all records that qualify based on Business Service membership at the time of promotion will be included.

Creating a Bundle for Promotion by Selecting Individual Records

You can select individual records to include in a Bundle promotion.





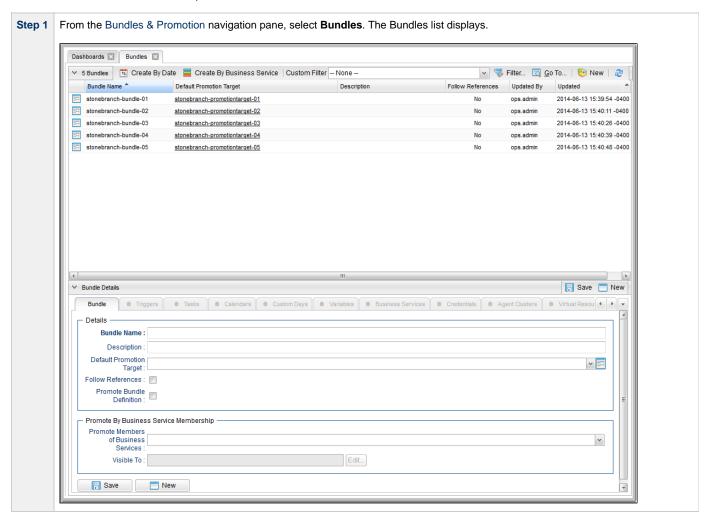
Note

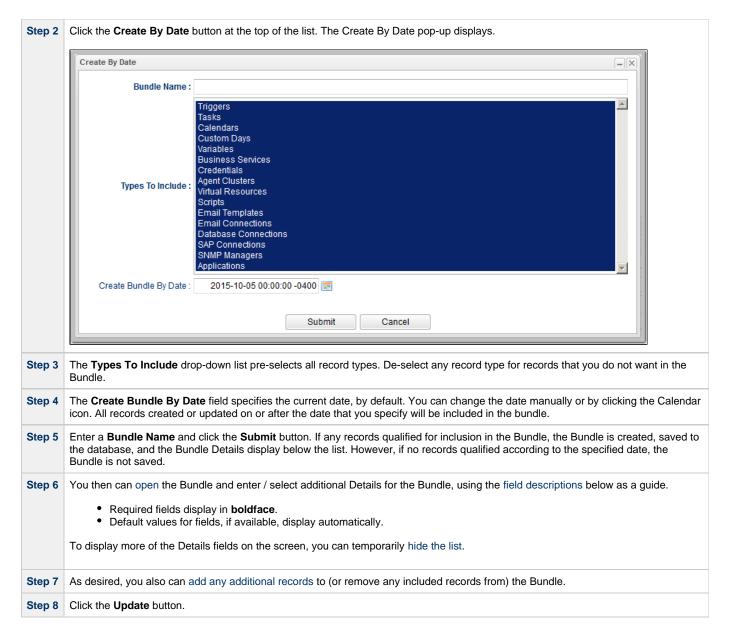
To open an existing record on the list, either:

- Click a record in the list to display its record Details below the list. (To clear record Details below the list, click the New button that displays above and below the Details.)
- Clicking the Details icon next to a record name in the list, or right-click a record in the list and then click **Open** in the Action menu that displays, to display a pop-up version of the record Details.
- Right-click a record in the a list, or open a record and right-click in the record Details, and then click Open In Tab in the
 Action menu that displays, to display the record Details under a new tab on the record list page (see Record Details as
 Tabs).

Creating a Bundle for Promotion by Date

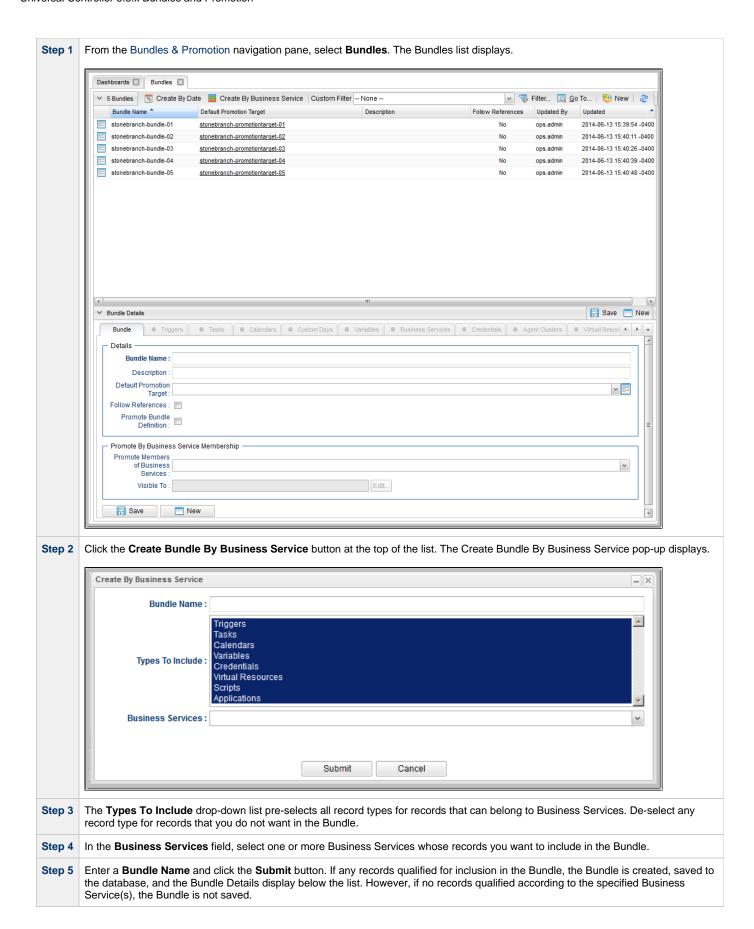
This feature allows you to select a date (current or earlier) for a Bundle Promotion. All records created or updated on the Controller on or since that date will be included in the Bundle promotion.





Creating a Bundle for Promotion by Business Services

This feature allows you to select Business Services for a Bundle Promotion. Records for selected record types created or updated on the Controller for selected Business Services will be included in the Bundle promotion.



Step 6 You then can open the Bundle and enter / select additional Details for the Bundle, using the field descriptions below as a guide.

• Required fields display in **boldface**.
• Default values for fields, if available, display automatically.

To display more of the Details fields on the screen, you can temporarily hide the list.

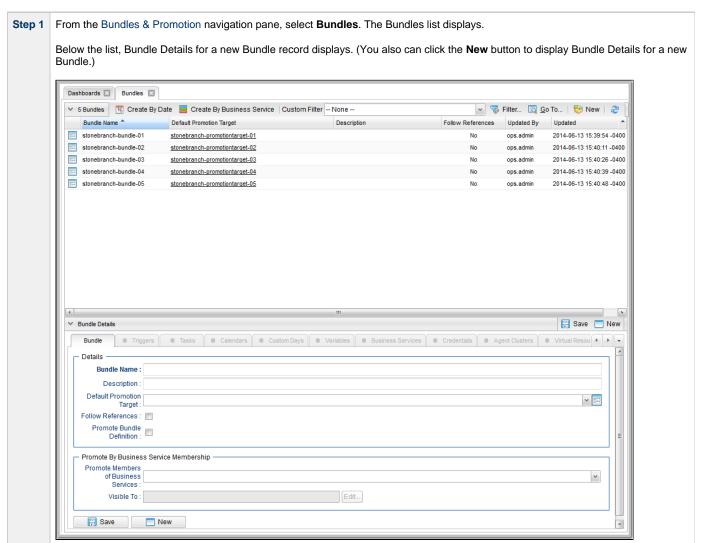
Step 7 As desired, you also can add any additional records to (or remove any included records from) the Bundle.

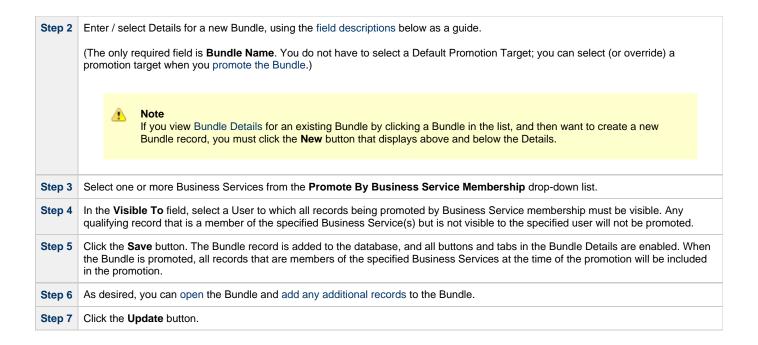
Step 8 Click the Update button.

Promoting Bundles by Business Service Membership

In addition to creating a Bundle for promotion by Business Services, you also can promote a Bundle by Business Service membership. When the Bundle is promoted, any record that is a member of one or more of the specified Business Services will be bundled *dynamically* - based on the current configuration of the system - during the promotion.

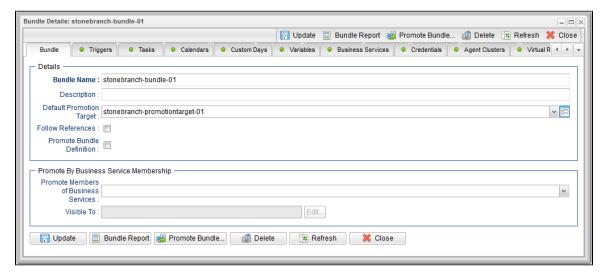
These records will not be visible from the corresponding Bundle tabs; they will appear only in the Bundle Report, which will identify all records bundled dynamically with a + in the **Added By** column.





Bundle Details

The following Bundle Details is for an existing Bundle. See the field descriptions, below, for a description of all fields that display in the Bundle Details.



For information on how to access additional details - such as Metadata and complete database Details - for Bundles (or any type of record), see Records.

Bundle Details Field Descriptions

The following table describes the fields, buttons, and tabs that display in the Bundle Details.

Field Name	Description
Details	This section contains detailed information about the Bundle.
Bundle Name	Name for this bundle.

Description	User-defined; description of this record. (Maximum = 200 characters.)		
Default Promotion Target	Allows you to browse for and select a Promotion Target, which you defined using the Promotion Targets feature. If you do not specify a default promotion target, you will be prompted for a target when performing a promotion of the bundle.		
	in you do not openly a deliate promotion target, you will be prompted for a target when performing a promotion of the bandle.		
Follow References	Specification for whether or not to dynamically include items that are referenced by bundled item definitions, including items being promoted as members of Business Services.		
	For example, if you bundle an Email Task and enable the Follow References field, the Email Connection and/or Email Template referenced by the Email Task will be included in the promotion operation. If you bundle a Trigger and enable the Follow References option, the Task(s) and Calendar referenced by the Trigger will be included in the promotion. Tasks within a bundled Workflow are included in the promotion regardless of the Follow Reference option. Custom Days that are defined within a bundled Calendar are included in the promotion regardless of the Follow Reference option as well.		
	(The information included is similar to the information included in an XML export with references.)		
	See Objects Promoted When Follow References is Selected or Not Selected.		
Promote Bundle Definition	Enable this option to promote the Bundle Details, along with the Bundle itself, when promoting the Bundle.		
Promote By Business Service Membership	This section contains detailed information for promoting the Bundle with records that are members of one or more Business Service and are visible to a specified user.		
Promote Members of Business Services	Business Service(s) whose members will be included in the promoted Bundle.		
Visible To	User to which all records being promoted by Business Service membership must be visible. Any qualifying record that is a member of the specified Business Service(s) but is not visible to the specified user will not be promoted.		
	Default is the last user to update the Promote Members of Business Services field.		
	You can change the specified user by clicking the Edit button next to the Visible To field. An Edit Visible To pop-up dialog displays:		
	Edit Visible To		
	Visible To : Administrator		
	Submit Cancel		
Buttons	This section identifies the buttons displayed above and below the Bundle Details that let you perform various actions.		
Save	Saves a new record in the Controller database.		
Update	Saves updates to the record.		
	Displays empty (except for default values) Details for creating a new Bundle record.		
New	Allows you to generate a report about the current bundle. See Generating a Bundle Report.		
New Bundle Report	Allows you to generate a report about the current bundle. See Generating a Bundle Report.		

Delete	Deletes the current record.	
Refresh	Refreshes any dynamic data displayed in the Details.	
Close	For pop-up view only; closes the pop-up view of this record.	
Tabs	This section identifies the tabs across the top of the Bundle Details that provide access to additional information about the Bundle.	
<record type> tabs</record 	Each tab of the following record types lists the records of that type that belong to this Bundle. An Edit button on each record type list allows you to add records to and remove records from the Bundle (see Adding and Removing Records in a Bundle, below). 1 Triggers 1 Tasks 1 Calendars 2 Custom Days 3 Variables 4 Business Services 5 Credentials 4 Agent Clusters 5 Virtual Resources 5 Scripts 6 Email Templates 7 Email Templates 8 Email Connections 9 Database Connections 9 SNMP Managers 9 SAP Connections 9 Applications	

Adding and Removing Records in a Bundle

If you want to select individual records for a Bundle promotion, you first must create and save a Bundle, which is empty of records until you manually add them.

If you selected a date for a Bundle promotion, the Bundle automatically contains records that were added or updated since the specified date, but you can manually add more records to the Bundle or remove any of the automatically added records from the Bundle.

If you selected Business Services Memberships for a Bundle Promotion, records that are members of the selected Business Services are not included in the Bundle until it is promoted. However, you can manually add additional records to the Bundle.

You can add a record to a Bundle from:

- Bundle Details
- Record Details
- · Records List for the record

You can remove a record from a Bundle only from:

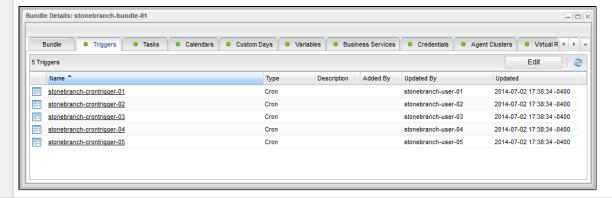
• Bundle Details

Adding and Removing Records from the Bundle Details

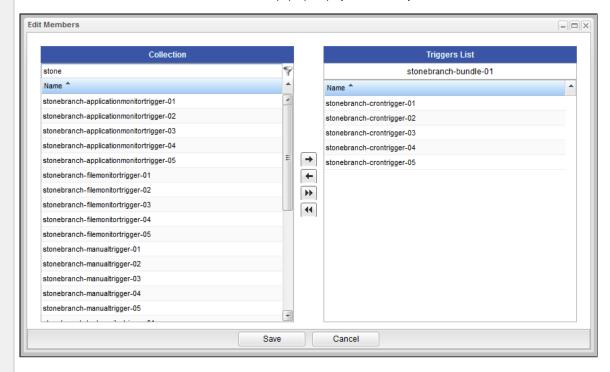
Step 1 Display the Bundle Details of the Bundle to which you want to add records.

Step 2 Click a <record type> tab for records that you want to add to the Bundle. A list of all records currently in the Bundle for that type are listed. (If you are adding records to a new Bundle, the list for every record type will be empty.)

For example:



Step 3 Click the Edit button above the list. An Edit Members pop-up displays that allows you to add records to the Bundle. For example:



- The Collection window displays all records of this type that have not been added to the Bundle.
- The Tasks List window displays all records of this type that have been added to the Bundle.
- Step 4 To filter the records listed in the Collection window, enter characters in the text field above the Name column. Only records containing that sequence of characters will display in the list.
- Step 5 To add a record to the Bundle, move the records from the Collection window to the List window:
 - 1. To move a single record, double-click it or click it once and then click the > arrow.
 - 2. To move multiple records, Ctrl-click them and then click the \gt arrow.
 - 3. To move all records, click the >> arrow.

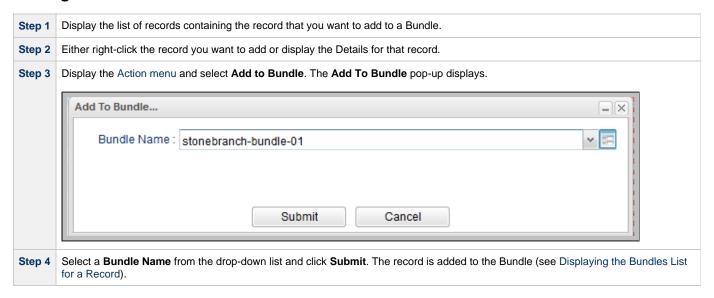
To remove a record from the Bundle, move the record from the List window to the Collection window:

- 1. To move a single record, double-click it or click it once and then click the < arrow.
- 2. To move multiple records, Ctrl-click them and then click the < arrow.
- 3. To move all records, click the << arrow.

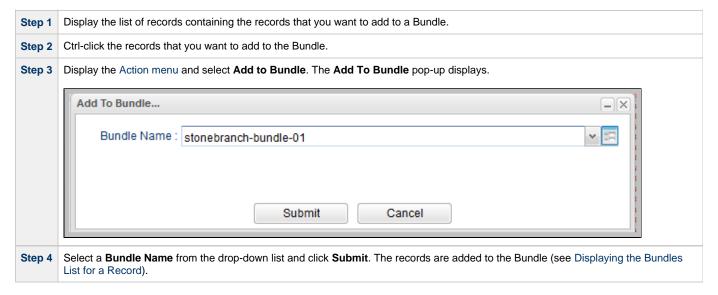
Step 6 Click Save.

Step 7 Repeat the above steps in the appropriate tabs for all records you want to add.

Adding a Record to a Bundle from the Record Details



Adding Multiple Records to a Bundle from a Records List



Displaying the Bundles List for a Record

To display a list of Bundles that a record belongs to:

Step 1 Access the Action menu for the record and select View Bundles. A View Bundles pop-up displays the list of Bundles that the record belongs to.

View Bundles: stonebranch-crontrigger-01

Bundle Name

Description

Added By

Step 2 To view Details for a Bundle on the list, click its Bundle Name.

Reports

Universal Controller does not support the bundling and promotion of reports. Any report required by a promoted task must already be available on the target system.



Best Practice

We recommend that if you are sharing reports between systems:

- 1. Create the reports on the source system.
- 2. List Export the reports.
- 3. List Import the reports into the target system.

If an Email Task or an Email Notification action for any task type contains a reference to a specific report by id, the promotion payload will include report meta data to allow for proper validation and potential remapping of the report reference on the target system.

The meta data includes:

- · Report id
- Report title
- Report user name / user id
- Report group name / group id

If a report by the same id exists on the target system, no UUID mapping is required and the promotion can proceed without issue.

If a report by the same id does not exist on the target system, UUID mapping is required before the promotion can proceed.

Using the report metadata, the Controller will attempt to find a report on the target system with the same title and same visibility.

- · If a report is found, the incoming report id will be remapped to the appropriate target system report id.
- If a report is not found, the promotion will fail with the following message: Unable to find mapping on target system for report reference id report-id. {meta-data}.



Note

You can disable all Report-related promotion validation on the target system via the Validate Report References On Promotion Universal Controller system property.

Generating a Bundle Report

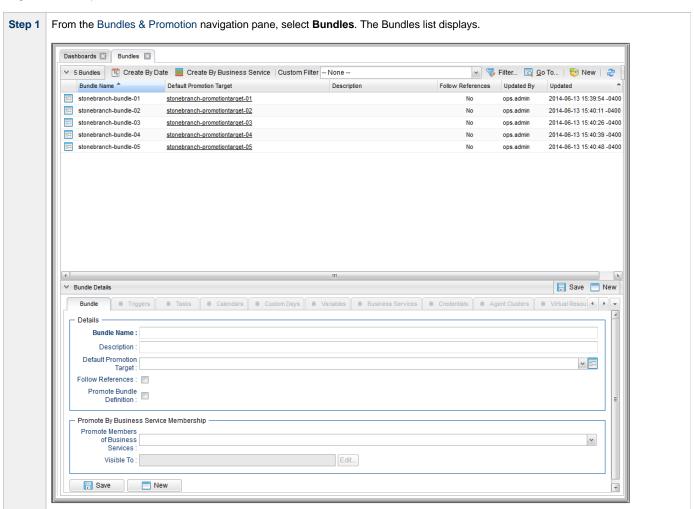
- Introduction
- Generating a Report

Introduction

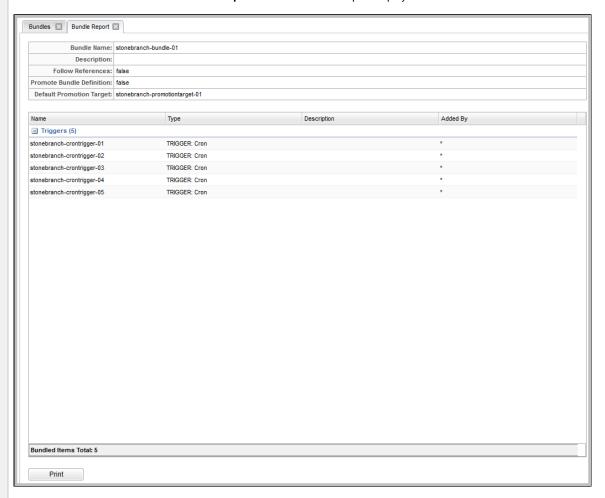
A Bundle Report displays a list of all records included in a Bundle, categorized by record type.

Generating a Report

To generate the report:



Step 2 Either right-click the Bundle that you want to create a Bundle Report for and click **Bundle Report** in the Action menu, or display the Details for the Bundle and click the **Bundle Report** button. A Bundle Report displays for that Bundle.





Note

Added By column information:

- Items included in the promotion that were added directly to the Bundle have a user id in the Added By column.
- Items included in the promotion dynamically as Tasks within a Workflow, Custom Days within a Calendar, or, when the Follow References field is enabled, the items referenced by the bundled items, have an asterisk (*) in the Added By column. (See Objects Promoted When Follow References is Selected or Not Selected.)
- Items included in the promotion dynamically when the Bundle is promoted by Business Service membership have a plus sign (+) in the Added By column.

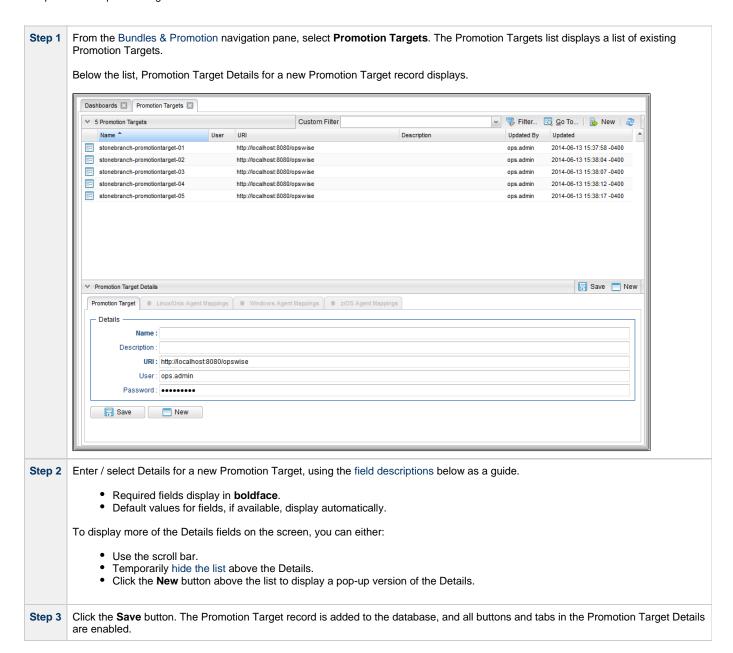
Step 3 If you want to print the report, click the **Print** button at the bottom of the report.

Creating Promotion Targets

- · Creating a Promotion Target
- Promotion Target Details
 - Promotion Target Details Field Descriptions

Creating a Promotion Target

Before you can promote a Bundle (or individual record) to Universal Controller, you must create a Promotion Target record for a cluster node of that Controller. A Promotion Target record contains the Uniform Resource Identifier (URI) of a target cluster node and, optionally, the user name and password required to log on to the cluster node.





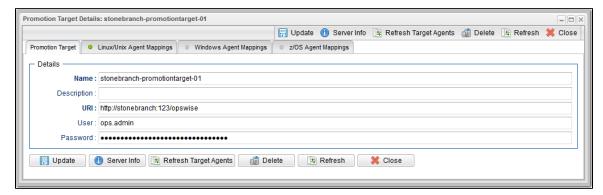
Note

To open an existing record on the list, either:

- Click a record in the list to display its record Details below the list. (To clear record Details below the list, click the New button that displays above and below the Details.)
- Clicking the Details icon next to a record name in the list, or right-click a record in the list and then click **Open** in the Action menu that displays, to display a pop-up version of the record Details.
- Right-click a record in the a list, or open a record and right-click in the record Details, and then click Open In Tab in the
 Action menu that displays, to display the record Details under a new tab on the record list page (see Record Details as
 Tabs).

Promotion Target Details

The following Promotion Target Details is for an existing Promotion Target. See the field descriptions, below, for a description of all fields that display in the Promotion Target Details.



For information on how to access additional details - such as Metadata and complete database Details - for Promotion Targets (or any type of record), see Records.

Promotion Target Details Field Descriptions

The following table describes the fields, buttons, and tabs that display in the Promotion Target Details.

Field Name	Description	
Details	This section contains detailed information about the Promotion Target.	
Name	Name for this Production Target.	
Description	User-defined; description of this record. (Maximum = 200 characters.)	
URI	Uniform Resource Identifier (URI) used to locate the Promotion Target cluster node.	
	Note By default, the URI of the cluster node that you are logged into displays. You must change this to the URI of a target cluster node, using the default URI format.	
User		
	Login ID on the target cluster node of Universal Controller.	
Password	Login password on the target cluster node of Universal Controller.	

Buttons	This section identifies the buttons displayed above and below the Promotion Target Details that let you perform various actions.
Save	Saves a new record in the Controller database.
Update	Saves updates to the record.
New	Displays empty (except for default values) Details for creating a new Promotion Target record.
Server Info	Displays a Remote Server Information pop-up that contains details about the cluster node identified in this record.
Refresh Target Agents	Accesses the specified Universal Controller server and fetches all Agent records. For details, see Specifying Agent Mapping.
Delete	Deletes the current record.
Refresh	Refreshes any dynamic data displayed in the Details.
Close	For pop-up view only; closes the pop-up view of this record.
Tabs	This section identifies the tabs across the top of the Promotion Target Details that provide access to additional information about the Bundle.
<agent-type> Mappings</agent-type>	Lists all Agent mapping instructions between the source and target Controllers. See Specifying Agent Mapping.

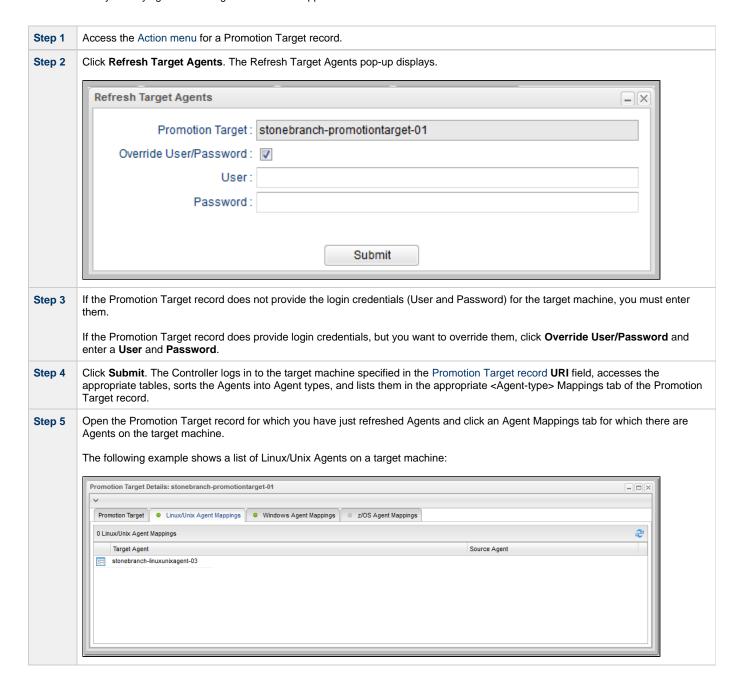
Specifying Agent Mapping

Specifying Agent Mapping

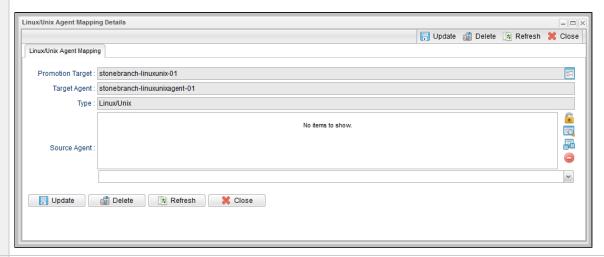
Because your source and target Controller machines may not have the same Agents, you must provide instructions to the Controller on how to map Agents on the source machine to Agents on the target machine.

The process consists of:

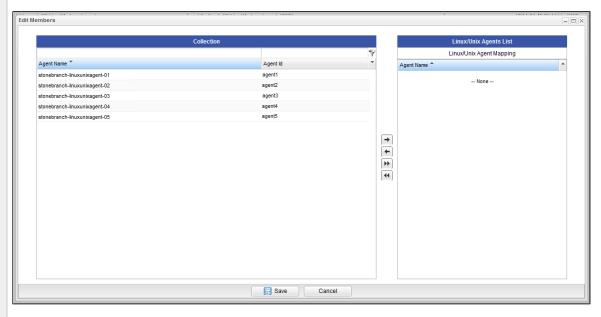
- Instructing the Controller to fetch the list of Agents on the target machine.
- Manually identifying how each Agent should be mapped.



Step 6 Click the Details icon next to a Target Agent name to display Agent Mapping Details for that Target Agent.



Step 7 In the Source Agent field, click the Add-Remove Multiple icon to display an Edit Members dialog.



- The Collection window displays all Agents of this type on the source machine that have not been mapped to the selected Target Agent.
- The Agents List windows displays all Agents of this type on the source machine that have been mapped to the selected Target Agent.
- Step 8 To filter the Agents listed in the Collection window, enter characters in the text field above the **Name** column. Only Agents containing that sequence of characters will display in the list.
- **Step 9** To map an Agent, move the it from the **Collection** window to the **List** window:
 - 1. To move a single Agent, double-click it or click it once and then click the > arrow.
 - 2. To move multiple Agents, Ctrl-click them and then click the > arrow.
 - 3. To move all Agents, click the >> arrow.

To un-map an Agent, move it from the List window to the Collection window:

- 1. To move a single Agent, double-click it or click it once and then click the < arrow.
- 2. To move multiple Agents, Ctrl-click them and then click the < arrow.
- 3. To move all Agent, click the << arrow.
- Step 10 Click Save.

Step 11

Repeat Steps 6 to 10 for each Agent listed in the selected Agent Mappings tab and for all Agents listed in any other Agent Mappings tabs.

For best results, you should make sure all the Agents on your source machine are mapped to an Agent on the target machine. You can map as many source Agents to a single target Agent as needed. Once you have specified the mapping for all your source Agents, you can easily promote Bundles or individual records to this Promotion Target. When you promote records (via Bundle or individually) to the target machine, the target Agent will replace the source Agent.

Refresh Agent Error Messages

If your setup is incorrect, you may see the error message described below.

If you tried to refresh target Agents using a non-existent user or invalid password on the Promotion Target:

Error Message	Location
GET http://NN.NNN.NN.N:8080/opswise/resources/agents/list returned a response status of 401 Unauthorized	User interface on source machine
2012-03-29-16:27:17:134 ERROR [http-8080-6] com.sun.jersey.api.client.UniformInterfaceException: GET returned a response status of 401 Unauthorized	Universal Controller log on source machine
2012-03-29-16:27:16:138 ERROR [http-8080-1] *** ERROR *** Login using Basic Authentication failed for: [userID]	Universal Controller log on target machine

Promoting Bundles and Records to a Target

- Overview
- Promoting a Bundle
- Scheduling a Bundle Promotion
- Promoting One or More Individual Records
- Promotion Error Messages
- Promotion Audit Records



To use this feature, the user logged into the source Controller must have the ops_promotion_admin role.

Also, the user ID and password specified for the Promotion Target must be a valid user on the target Controller with the ops_promotion_admin role.

Overview

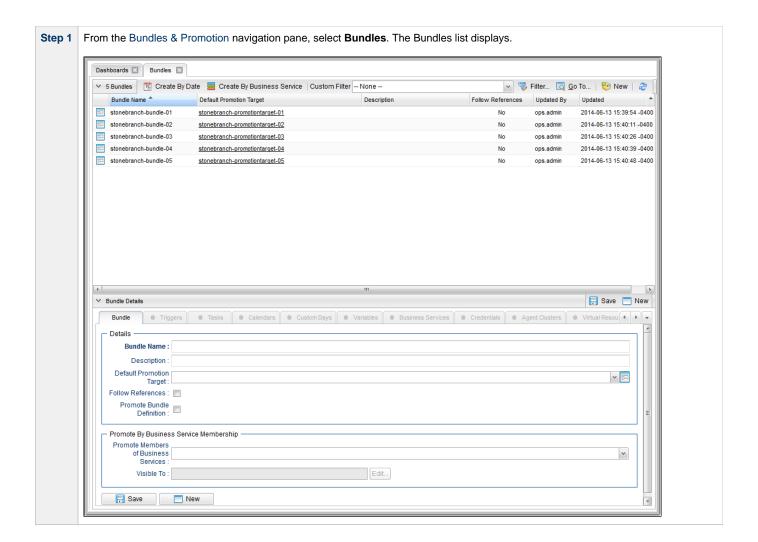
Promoting a Bundle means copying all of the records in a Bundle from a source Controller to a target Controller.

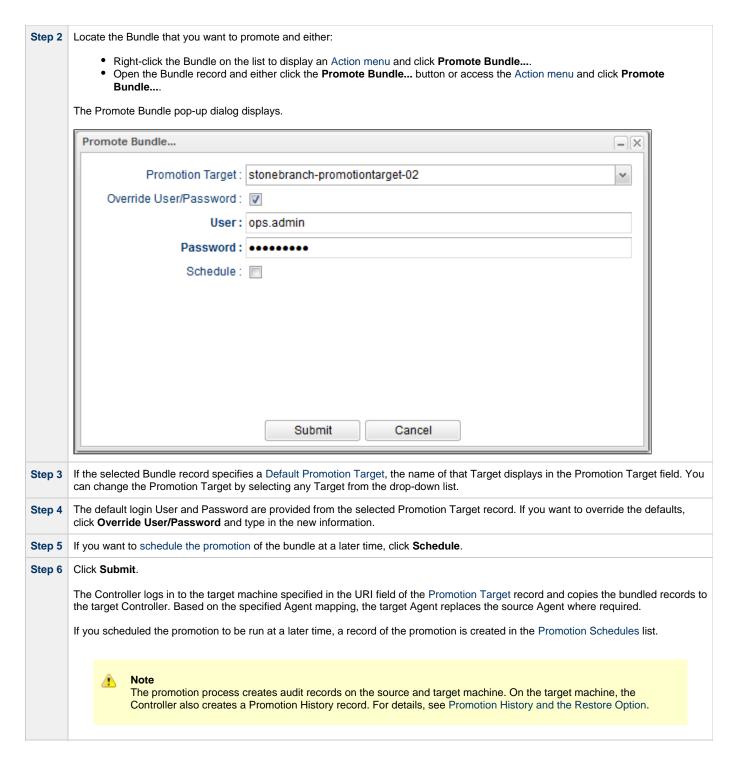
You also can promote one or more individual records without bundling them.

For every record in a bundle being promoted, and every record being promoted individually, the following associated data is always included in the promotion.

- If you promote a workflow, all of the tasks in the workflow are also promoted.
- If you promote a task (including a workflow), all variables, virtual resource dependencies, actions, notes, etc. are included in the promotion.
- If you promote an application, its associated start, stop, and query tasks are included in the promotion.
- If you promote a calendar, its associated custom days are included in the promotion.

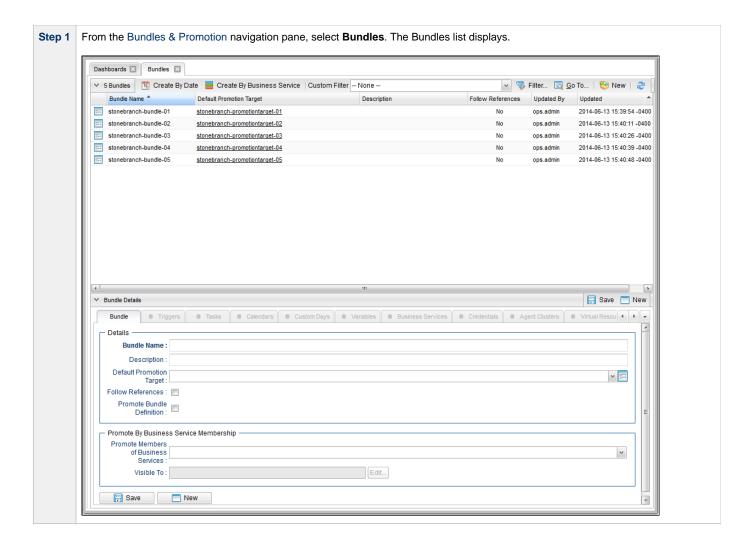
Promoting a Bundle

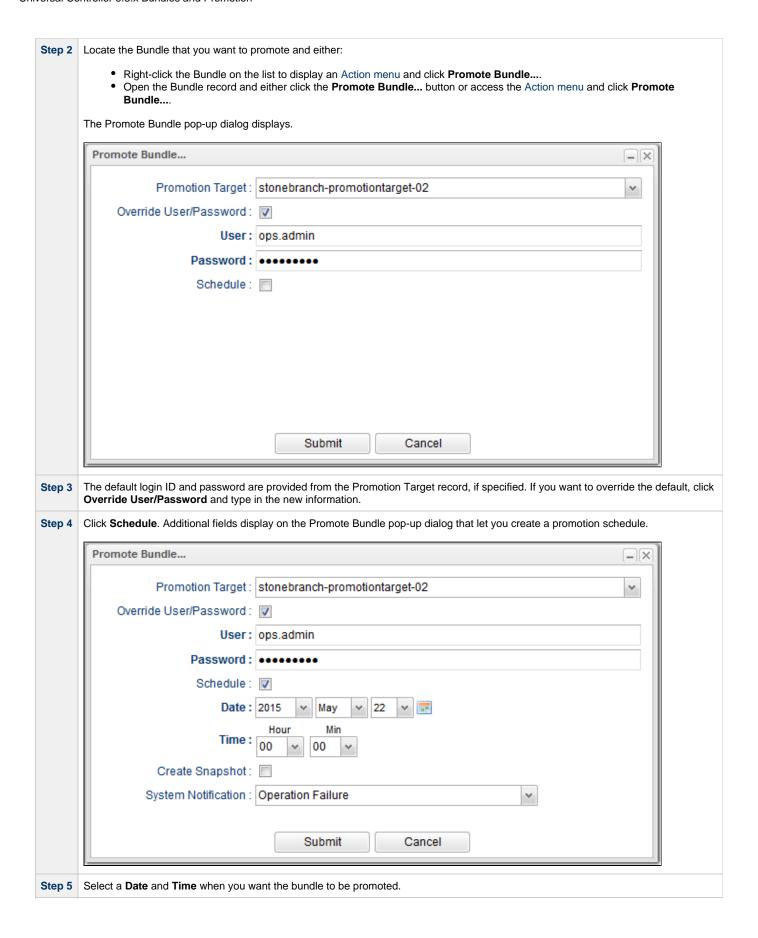




Scheduling a Bundle Promotion

You can create a promotion schedule for a Bundle so that it will automatically be promoted at a specified date and time.





Step 6

If you want to schedule the promotion using the current Bundle records, select **Create Snapshot**. When you submit the schedule, the current Bundle records are collected immediately and promoted at the scheduled time. Any changes to Bundle records between the time that the promotion was scheduled and the time that the promotion was performed are not promoted.

If you want to schedule the promotion using the Bundle records collected dynamically at the time of the scheduled promotion, do not select **Create Snapshot**.

Step 7

If you want to send a System Notification on the success and/or failure of the promotion, select one of the following from the **System Notification** drop-down list:

- Operation Failure (default)
- Operation Success/Failure
- Operation Success

If you do not want to send a System Notification, select - None --.



Note

Promotions without a specified Schedule will run immediately. Real-time notifications will be displayed in the Universal Automation Center Console, rather than through System Notifications.

Step 8

Click Submit. A record of the promotion schedule is listed in the Promotion Schedules list.

After a scheduled promotion has completed, it will remain on the list (where it can be rescheduled to run again) for the number of days specified by the Promotion Schedule Retention Period In Days Universal Controller system property.

Promoting One or More Individual Records

The Controller also allows you to promote records of the same type to a target machine without going through the process of creating a Bundle.



Note

You can only create a Promotion Schedule for a Bundle of records, not one or more individual records.

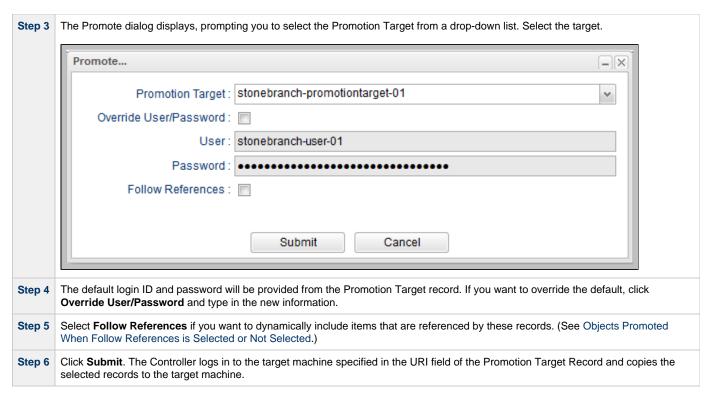
Step 1

Display the records list for the type of record that you want to promote.

Step 2

Select the record(s) that you want to promote.

- To promote a single record, either:
 - Right-click the record to display an Action menu, and then click Promote.
 - Display the record Details, right-click the Details to display an Action menu, and then click **Promote**.
- To promote multiple records:
 - Ctrl-click the records you want to promote, right-click any of the selected records to display an Action menu, and then
 click Promote.

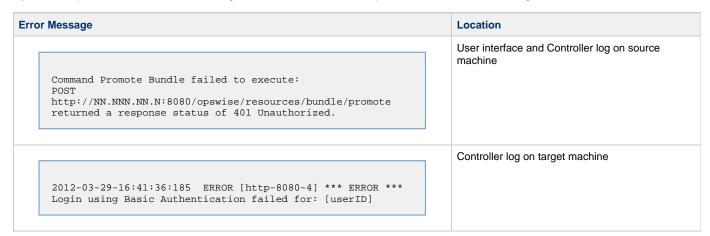


This process creates audit records on the source and target machines. On the target machine, the Controller also creates a Promotion History record.

Promotion Error Messages

If your set-up is incorrect, you may see the following error messages.

If you tried to promote a bundle or record using a non-existent user or invalid password on the Promotion Target:



If you tried to promote a Bundle or record using a valid user/password on the Promotion Record that does not have the ops_promotion_admin role:

Location	Error Message
----------	---------------

Command Promote Bundle failed to execute:
[Command Accept Bundle prohibited due to security constraints.]

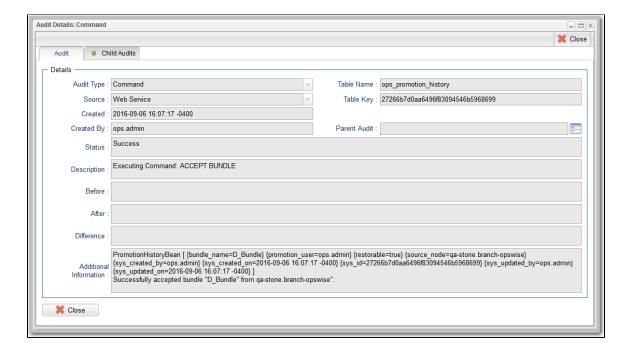
Promotion Audit Records

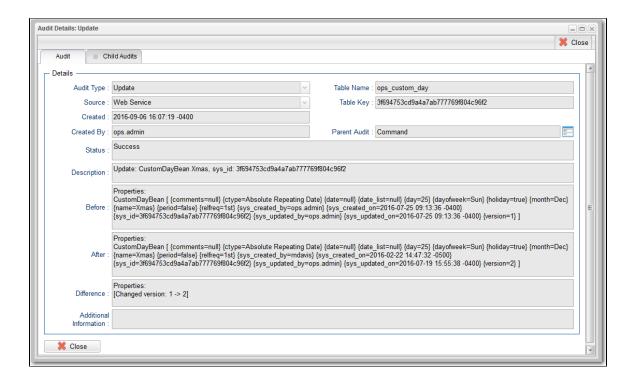
Whenever a Bundle or an individual record is promoted to a target machine, the Controller creates audit records on both the source and target machines.

On the source machine, each time you promote a record or a Bundle, the Controller creates a single audit record for that event. If you promoted a Bundle, the audit description is PROMOTE BUNDLE; if you promoted a single record or multiple records, the audit description is PROMOTE.

On the target machine, the Controller creates an ACCEPT BUNDLE audit record, along with child audit records associated with that promotion (either record[s] or a Bundle). These may include UPDATE commands for records that existed on the target already and CREATE commands for records that did not previously exist.

For example, the following shows an ACCEPT BUNDLE record on a target machine, and a Child Audit record for a Custom Day included in the promotion





For detailed information on audit record, see Audits.

Promotion Schedules

- Overview
- Viewing Promotion Schedule Details
- Promotion Schedule Details Field Descriptions
- Modifying and/or Rescheduling a Promotion Schedule
- Modifying and/or Rescheduling a Successfully Promoted Promotion Schedule
- Cancelling a Promotion Schedule

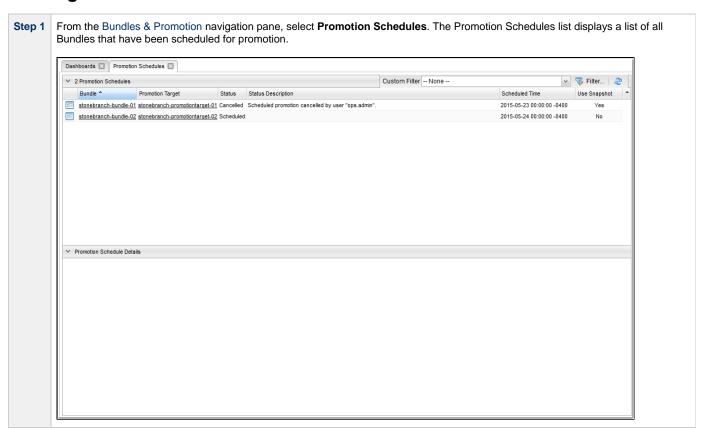
Overview

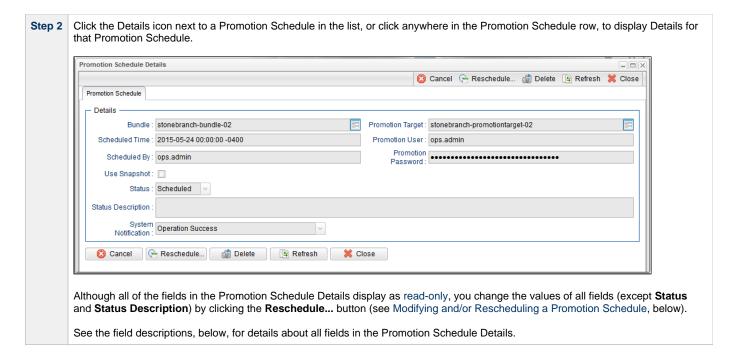
If you schedule a promotion to be run at a later time on the Promote Bundle... dialog, the Controller creates a record for that promotion.

The Promotion Schedules list identifies all scheduled promotions.

It also lists all scheduled promotions that have completed (where they can be rescheduled to run again) for the number of days specified by the Promotion Schedule Retention Period In Days Universal Controller system property.

Viewing Promotion Schedule Details





Promotion Schedule Details Field Descriptions

The following table describes the fields and buttons in the Promotion Schedule Details.

Field Name	Description	
Details	This section contains detailed information about the scheduled promotion.	
Bundle	Name of the Bundle scheduled for promotion.	
	You can click the icon next to the Bundle name to view (and edit) the Details for that Bundle.	
Scheduled Time	Date and time the bundle is scheduled for promotion.	
Schedule By	User Id of the user that scheduled the promotion of the bundle.	
Promotion	Cluster Node of a Universal Controller to which the Bundle is scheduled for promotion.	
Target	You can click the icon next to the Promotion Target name to view (and edit) the Details for that Promotion Target.	
Promotion User	User Id of the promotion user that the scheduled promotion will use to promote the bundle.	
Promotion Password	Password of the promotion user that the scheduled promotion will use to promote the bundle.	
Use Snapshot	Indication of whether or not the promotion is scheduled to be performed using a snapshot of the Bundle records taken at the time the promotion was scheduled.	
Status	System-defined; Current status of this Promotion Schedule. Values: Scheduled Cancelled Running Failure Promoted	
Status Description	System-defined; Description of the current Status .	

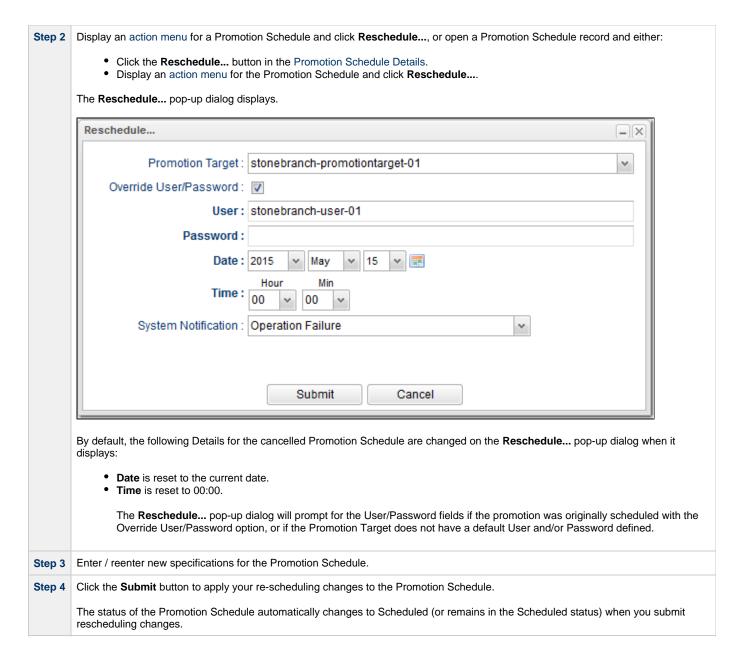
System Notification	Options for when a System Notification will be sent. Options:	
	 None Operation Failure Operation Success/Failure Operation Success 	
Buttons	This section identifies the buttons displayed above and below the Promotion Schedule Details that let you perform various actions.	
Cancel	Changes a scheduled promotion Status from Scheduled to Cancelled.	
Reschedule	Allows you to edit the Promotion Schedule Details (see Modifying and/or Rescheduling a Promotion Schedule, below).	
Delete	Cancels and deletes the Promotion Schedule; Delete is prohibited while Status is Running.	
Refresh	Refreshes any dynamic data displayed in the Details.	
Close	For pop-up view only; closes the pop-up view of these Details.	

Modifying and/or Rescheduling a Promotion Schedule

You can modify and/or reschedule a Scheduled, Cancelled, or Failed promotion schedule.

For modifying and/or rescheduling a successfully promoted promotion schedule, see Modifying and/or Rescheduling a Successfully Promoted Promotion Schedule.

Step 1 From the Bundles & Promotion navigation pane, select **Promotion Schedules**. The Promotion Schedules list displays a list of all Bundles that have been scheduled for promotion.



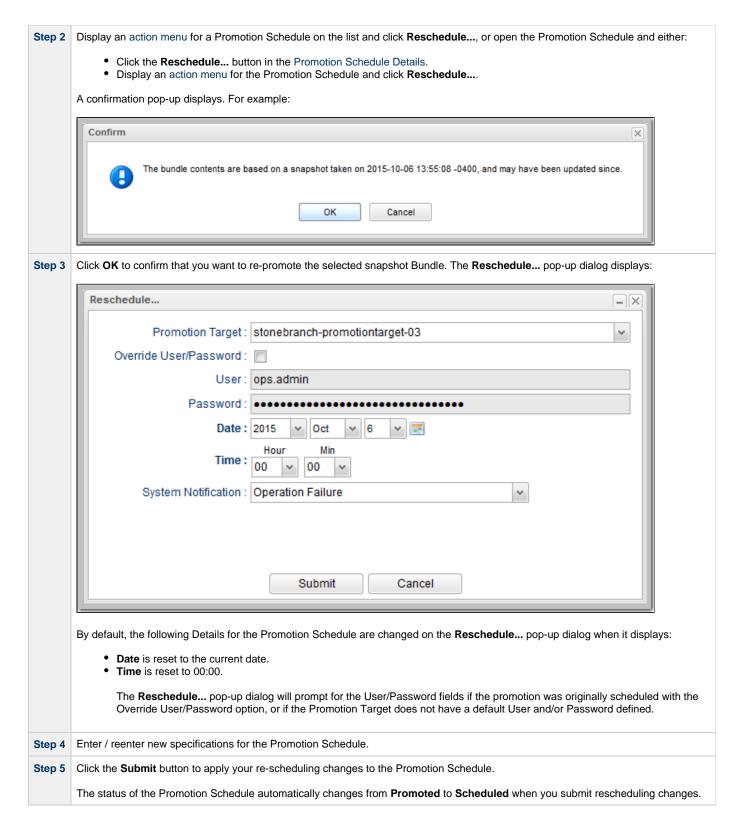
Modifying and/or Rescheduling a Successfully Promoted Promotion Schedule

You can modify and/or reschedule a successfully promoted promotion schedule only if the promotion schedule was specified to use a snapshot.

Step 1
From the Bundles & Promotion navigation pane, select Promotion Schedules. The Promotion Schedules list displays a list of all Bundles that have been scheduled for promotion.

You can identify successfully promoted snapshot Bundles by the following columns on the list:

• Status = Promoted
• Use Snapshot = Yes



Cancelling a Promotion Schedule

You can cancel a Promotion Schedule without deleting its Promotion Schedule record.

Cancelled Promotion Schedule records will continue to be listed on the Promotion Schedules list.

Step 1	From the Bundles & Promotion navigation pane, select Promotion Schedules . The Promotion Schedules list displays a list of all Bundles that have been scheduled for promotion.
Step 2	Display an action menu for a Promotion Schedule on the list and click Cancel , or open the Promotion Schedule and either: • Click the Cancel button. • Display an action menu for the Promotion Schedule and click Cancel . The Status of the Promotion Schedule in the Promotion Schedule list will change from Scheduled to Cancelled , and a Status Description for that cancelled Promotion Schedule will display.

To reschedule a **Cancelled** Promotion Schedule, see Modifying and/or Rescheduling a Promotion Schedule.

Promotion History and the Restore Option

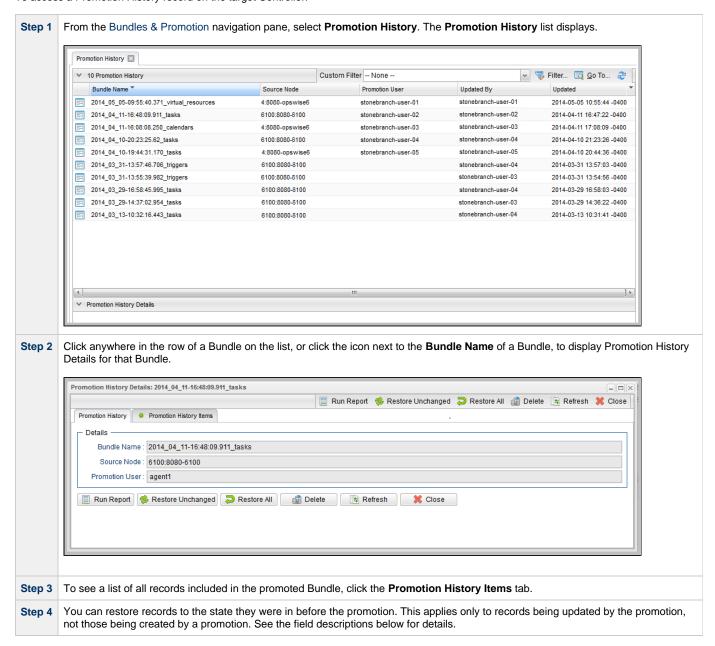
- Overview
- Accessing Promotion History Records
- Promotion History Details Field Descriptions

Overview

The Controller creates a Promotion History record each time a Bundle (or record) is promoted to a target Controller.

Accessing Promotion History Records

To access a Promotion History record on the target Controller:



Promotion History Details Field Descriptions

The fields on the Promotion History Details are system-supplied and read-only.

Field Name	Description	
Details	This section contains detailed information about the promoted Bundle (or record).	
Bundle Name	Name of this record.	
Source Node	Machine name or URI of the machine where the source Universal Controller system is running.	
Promotion User	User ID of the user who promoted the bundle or record(s).	
Buttons	This section identifies the buttons displayed above and below the Promotion History Details that let you perform various actions.	
Run Report button	Generates a one page summary of the contents of the bundle. See Generating a Bundle Report.	
Restore Unchanged	For records that already existed on the target server, you can restore them to their state prior to the promotion. The Restore Unchanged button restores only those records that have not been changed since the promotion updated the record. For records that were created on the target machine by the promotion, no changes will occur since no previous version exists.	
Restore All	For records that already existed on the target server, you can restore them to their state prior to the promotion. The Restore All button restores all records that were updated by the promotion, including records that were modified since the promotion. For records that were created on the target machine by the promotion, no changes will occur since no previous version exists.	
Delete	Deletes the current record.	
Refresh	Refreshes any dynamic data displayed in the Details.	
Close	For pop-up view only; closes the pop-up view of this record.	
Tabs	This section identifies the tabs across the top of the Promotion History Details that provide access to additional information about the promotion.	
Promotion History Items	Lists all the records promoted as part of this Bundle. Each item in the list provides the name and type of the record, the latest version number on the target, the previous version number on the target, and the source version number.	

Objects Promoted When Follow References is Selected or Not Selected

Objects Promoted When Follow References is Selected or Not Selected

The following tables identify the objects that are included in a Bundle Promotion when:

- Follow References is selected for the promotion.
- Follow References is not selected for the promotion.

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Agent Clusters	none	none

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Applications	 Application Control Tasks (both system-generated and custom Application Control Tasks) Business Services Credentials 	 Application Control Tasks (system-generated Application Control Tasks)

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Business Services	none	none

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Calendars	Business ServicesCustom Days	Custom Days

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Credentials	Business Services	none

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Custom Days	none	none

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Database Connections	Credentials	none

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Email Connections	none	none

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Email Templates	Email Connections	none

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
SAP Connections	none	none

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Scripts	Business Services	none

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
SNMP Managers	none	none

Record	Objects Promoted if Follow References is Selected	Objects Promoted if Follow
Туре		References is Not Selected

Tasks	 Action: Email Notification - Email Templates Action: SNMP Notification - SNMP Managers Action: System Operation = Set Virtual Resource Limit - Virtual Resources Action: System Operation = Suspend/Resume Agent Cluster - Agent Clusters Action: System Operation = Suspend/Resume Agent Cluster Membership - Agent Clusters Action: System Operation = Set Agent Cluster Execution Limit - Agent Clusters Action: System Operation = Run Task Instance Command - Tasks Agent Clusters Applications (for Application Control Tasks) Business Services Child Tasks (if Task is a Workflow) Credentials (Note: Some task types can contain multiple Credentials.) Database Connections (for SQL and Stored Procedure Tasks) Default Calendars (if Task is a Workflow) Email Connections (if Task is an Email Task) Email Templates (if Task is an Email Task) Mutually Exclusive Tasks (Direct) Run Criteria - Custom Days Choice (if Task is a Workflow) Run Criteria - System Calendar (if there is no Default Calendar, the Task is a Workflow, and Run Criteria uses Custom Day Choice) SAP Connections (for SAP Tasks) Scripts Step Action: System Operation = Set Virtual Resource Limit - Virtual Resources (if Task is a Workflow) Step Action: System Operation = Suspend/Resume Agent Cluster - Agent Clusters (if Task is a Workflow) Step Action: System Operation = Suspend/Resume Agent Cluster Membership - Agent Clusters (if Task is a Workflow) Step Action: System Operation = Set Agent Cluster Execution Limit - Agent Clusters (if Task is a Workflow) Step Action: System Operation = Task Instance Command - Tasks (if Task is a Workflow) Step Action: System Operation = Task Instance Command - Tasks (if Task is a Workflow) Task to Monitor (if Task is a Task Monitor Task) Virtual Resources 	Child Tasks (if Task is a Workflow)
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Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Triggers	Business ServicesCalendarsTasks	none

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Variables	Business Services	none

Record Type	Objects Promoted if Follow References is Selected	Objects Promoted if Follow References is Not Selected
Virtual Resources	Business Services	none