

Universal Controller 7.0.x

Security

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Security

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Business Services	

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The information on these pages also is located in the Universal Controller 6.9.x Security.pdf.

Security Overview

Universal Controller Security

Setting up Universal Controller security involves the following steps:

- Creating users and assigning them passwords.
- Creating groups of users.
- Assigning permissions (access to Controller records) to users and groups.
- Assigning roles (permission to perform administrative functions) to users and groups.
- Creating credentials that allow the Controller to log in to remote machines and execute jobs.

See LDAP Settings for information on how to set up Universal Controller to use LDAP authentication for:

- Credentials for running tasks
- User logins

See Single Sign-On Settings for information on how to set up Universal Controller to use SAML authentication.

Users and Groups

- Overview
- Default Users and Groups
- Adding a User
 - User Details
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- Assigning Users to Groups
- Navigation Visibility for Users and Groups
- Deleting a User

Overview

You can create any number of users and user groups for Universal Controller, and you can assign any user to any user group.

The roles and permissions that you assign each user and group determines the level of access to Universal Controller functions.

You can assign any role and permission to any user or any user group. If you assign a user to a group, the user inherits all roles and permissions assigned to that group.

See LDAP Settings for information on how to set up Universal Controller to use LDAP authentication for:

- Credentials for running tasks
- User logins

Default Users and Groups

Default User

The default Universal Controller user is ops.admin. It is assigned to one of the default Universal Controller groups, Administrator Group.

Default Groups

There are two default groups:

- Administrator Group has access to all Controller functions; by default, it is assigned the ops.admin role, which has permissions on all Controller functions.
- Everything Group has access to all functions that do not require the ops.admin role.

Adding a User

You must have administrative permissions to add users.

By default, a new user has no permissions. Until permissions are granted, a user can log into the Universal Controller user interface and view options in the Navigator, but cannot perform any tasks.

Dashboards 🖂 Users 🖾				
✓ 5 Users	Custom Filter Unsaved 1	~	😽 Filter 🚦	🗟 Go To 🤱 New 🏖
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stonebranch-user-0	stonebranch 02	No 🥝	ops.admin	2018-07-20 16:40:59 -0400
stonebranch-user-03	stonebranch 03	No 🧭	ops.admin	2018-07-20 16:41:22 -0400
stonebranch-user-04	stonebranch 04	No 🥝	ops.admin	2018-07-20 16:41:56 -0400
stonebranch-user-05	stonebranch 05	No 🥝	ops.admin	2018-07-20 16:42:19 -0400
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User O User Roles O Member	r of Groups Permissions			
Details				^
User Id :	Time	Zone : Server (America/New_York)		~
Password :		Title :		~
First Name :	Depar	tment :		
Middle Name :	Ma	nager :		× 🔚
Last Name :	Business F	hone :		
Email	Mobile F			=
Password Requires	Web B			
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Locked Out : 📄	Commar Ai	ccess : System Default	~	
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Login Method : Single Sign-On		Active : 🔽		
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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).

User Details

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

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			[Update 🏼 🏥 Delete	😫 Refresh 💥 Close		
User 🛛 User	Roles Member of Groups Permissions					
Details				^		
User Id :	stonebranch-user-01	Time Zone :	Server (America/New_York)	~		
Password :	•••••	Title :	IT Technician	~		
First Name :	stonebranch	Department :				
Middle Name :		Manager :		¥		
Last Name :		Business Phone :				
Email :		Mobile Phone :		E		
Password Requires Reset :						
Locked Out :						
User User Details User Id : Password : First Name : Middle Name : Last Name : Email : Password Requires Reset : Locked Out : Login Method :	Single Sign-On	Web Service Access : Active :				
🕎 Update	🗊 Delete 🛛 🔄 Refresh 🛛 💥 Close			-		

User Details Field Descriptions

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

Field Name	Description
Details	This section contains detailed information about the user.
User ID	Log in ID for this user.
Password	Password of this user.
	Note The hint for this field, as well as the information icon, will display any current characteristics and restrictions for Passwords as defined in Password Settings.

First Name	First name of this user.
Middle Name	Middle name of this user.
Last Name	Last name of this user.
Name	Automatically generated from the First Name and Last Name of this user.
Email	Email address of this user.
Password Requires Reset	If enabled, the user will be prompted to reset the password at next login.
Locked Out	If enabled, locks out the user. This field is enabled automatically if the maximum number of successive failed login attempts has been reached by the user.
Login Method	Login method(s) that the user can authenticate with. (You can use the Ctrl key to select both methods.) Options: • Standard • Single Sign-On
Time Zone	Time zone of this user. When this user logs in, all scheduling times will be shown in the user's time zone, unless the trigger specifies a different time zone.
Title	Business title of this user.
Department	Business department of this user.
Manager	Business manager of this user.
Business Phone	Business phone number of this user.
Mobile Phone	Mobile phone number of this user.
Web Browser Access	Specifies whether or not the user can log in to the user interface. Options: System Default - User restriction for logging in to the user interface is based on the current system default value of the System Default Web Browser Access Universal Controller system property. Yes - User is not restricted from logging in to the user interface. No - User is restricted from logging in to the user interface.
Command Line Access	 Specifies whether or not the user can log in to the Universal Controller Command Line Interface (CLI). Options: System Default - User restriction for logging in to the CLI is based on the current system default value of the System Default Command Line Access Universal Controller system property. Yes - User is not restricted from logging in to the CLI. No - User is restricted from logging in to the CLI.

Web Service Access	Specifies whether or not the user can log in to the Universal Controller RESTful Web Services API.
	Options:
	 System Default - User restriction for logging in to the Universal Controller Web Services is based on the current system default value of the System Default Web Service Access Universal Controller system property. Yes - User is not restricted from logging in to the Universal Controller Web Services. No - User is restricted from logging in to the Universal Controller Web Services.
Active	If enabled, the user ID is active and the user can log in. If disabled, the user is deactivated; the user will not appear in user lists and cannot be used for access to the Controller.
Metadata	This section contains Metadata information about this record.
UUID	Universally Unique Identifier of this record.
Updated By	Name of the user that last updated this record.
Updated	Date and time that this record was last updated.
Created By	Name of the user that created this record.
Created	Date and time that this record was created.
Buttons	This section identifies the buttons displayed above and below the User Details that let you perform various actions.
Save	Saves a new user record in the Controller database.
Save & New	Saves a new record in the Controller database and redisplays empty Details so that you can create another new record.
Save & View	Saves a new record in the Controller database and continues to display that record.
New	Displays empty (except for default values) Details for creating a new record.
Update	Saves updates to the record.
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 user.
Tabs	This section identifies the tabs across the top of the User Details that provide access to additional information about the user.
User Roles	Allows you to assign roles to this user.
Member of Groups	Allows you to assign this user to one or more groups.
	Note
	Universal Controller only supports a user being a member of 1,000 groups or less.
Permissions	Allows you to assign permissions to this user.

Adding a Group

You must have administrative privileges to add groups.

A group is a collection of users. You can assign privileges and roles to groups or users. You can also assign groups to other groups.

Any user assigned to a group inherits all roles and permissions assigned to that group.

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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).

Group Details

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

Group Details: stonebra	nch-group-1	
		🦷 Update 🗈 Copy 🎲 Delete 🕼 Refresh 💥 Close
Group Gro	oup Roles Group Members Child Groups Permissions	
Details		
Name :	stonebranch-group-1	Parent :
Description :		
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Control Navigation Visibility :		Navigation Activity, Task Instances, History, All Triggers, Active Triggers, 💌
\Bigg Update	Copy 🗊 Delete 🕥 Refresh 🗱 Clo	ose

Group Details Field Descriptions

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

Field Name	Description
Details	This section contains detailed information about the group.
Name	Name of this group.
Parent	Name of this group's parent group, if any.
Description	Description of this group.
Email	Email address for this group.
Manager	Universal Controller user that is the manager of this group.
Control Navigation Visibility	Indication of whether or not to control the visibility of navigation pane entries in the Controller Navigator, via the Navigation Visibility field, for members of this Group. If Control Navigation Visibility is not checked (the default selection), all entries are visible.

Navigation Visibility	If Control Navigation Visibility is enabled; Drop-down list of all Navigator entries.
VISIDIIITY	You can manually select and deselect any entry on the list. You also can click Check All above the list to make all Navigator entries visible to users in this Group, or click Uncheck All above the list to hide all Navigator entries from users in this Group.
	Note If a new Navigation Visibility entry becomes available (for example, when a new Universal Task type has been created) <i>after</i> an administrator has configured the Navigation Visibility feature for a Group, you must explicitly add that new entry to the configuration. If a newly created Universal Task type does not appear as an entry in the Navigation Visibility drop-down list, confirm that the Universal Template has at least one field defined, perform the Refresh Navigation Tree operation, and refresh the Group Details (or refresh the Groups list).
	When a Universal Template is deleted, any Navigation Visibility configuration with a reference to its corresponding Universal Task type entry will automatically have that entry removed.
Metadata	This section contains Metadata information about this record.
UUID	Universally Unique Identifier of this record.
Updated By	Name of the user that last updated this record.
Updated	Date and time that this record was last updated.
Created By	Name of the user that created this record.
Created	Date and time that this record was created.
Buttons	This section identifies the buttons displayed above and below the Group Details that let you perform various actions.
Save	Saves a new group record in the Controller database.
Save & New	Saves a new record in the Controller database and redisplays empty Details so that you can create another new record.
Save & View	Saves a new record in the Controller database and continues to display that record.
New	Displays empty (except for default values) Details for creating a new record.
Update	Saves updates to the record.
Сору	Creates a copy of this Group, which you are prompted to rename.
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 group.
Tabs	This section identifies the tabs across the top of the Group Details that provide access to additional information about the user.
Group Roles	Allows you to assign roles to this group.

Group Members	Allows you to assign users to this group.
	Note Universal Controller only supports a user being a member of 1,000 groups or less.
Child Groups	Allows you to assign other groups to this group.
Permissions	Allows you to assign permissions to this group.

Additional Details

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

Assigning Users to Groups

You can assign users to groups from a User record and from a Group record.

Step 1	Open the User or Group record.
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2 UICK TO						
2 Click th	he Group Members tab.					
For a l	Jser, a list of all groups to w	which the user is assigned o	displays:			
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3 For a U	User, either:	stone a branch	ops.admin	2014-07-08 10:43:39 -0400		

Collection Groups List Name ^ stonebranch-group-03 stonebranch-group-04 stonebranch-group-01 stonebranch-group-05 interframe	
Name Name stonebranch-group-03 stonebranch-group-01 stonebranch-group-05 stonebranch-group-02	
stonebranch-group-03 stonebranch-group-01 stonebranch-group-04 stonebranch-group-02	
stonebranch-group-02 stonebranch-group-02	
stonebranch-group-05	
→	
•••	
Save Cancel	

For a Group, either:

- Click New to create a User and automatically assign it to the Group.
 Click Edit to display an Edit Members pop-up that allows you to assign existing Users to the Group.

	Collection			Users List	
		8		stonebranch-group-01	
Name 1		•		Name A	
stone b branch				stone a branch	
stone c branch					
stone d branch					
stone e branch			_		
			\rightarrow		
			(+)		
			•••		
			44		

Step 4	To filter the Users/Groups listed in the Collection window, enter characters in the text field above the Name column. Only Users/Groups containing that sequence of characters will display in the list.
Step 5	 To assign a User to a Group, move the User/Group from the Collection window to the List window: 1. To move a single entry, double-click it or click it once and then click the > arrow. 2. To move multiple entries, Ctrl-click them and then click the > arrow. 3. To move all entries, click the >> arrow. To unassign the User to a Group, move the User/Group from the List window to the Collection window: 1. To move a single entry, double-click it or click it once and then click the < arrow. 2. To move multiple entries, Ctrl-click them and then click the < arrow. 3. To move a single entry, double-click it or click it once and then click the < arrow. 3. To move a lingle entries, Ctrl-click them and then click the < arrow. 3. To move all entries, click the << arrow.
Step 6	Click Save.

Navigation Visibility for Users and Groups

Users with the ops.admin role or the ops_user_admin role can control, via the Control Navigation Visibility and Navigation Visibility fields in the Group Details for a Group, which entries in the Controller Navigator are visible to users in that Group.

The following conditions apply to navigation visibility

User in Multiple Groups	If a user belongs to multiple Groups, and for any of those Groups the Control Navigation Visibility is not enabled, Navigator visibility for that user is not controlled.
User in Multiple Groups	If a user belongs to multiple Groups, and for all of those Groups navigation visibility has been deselected for one or more entries, the visible entries from all Groups will be merged. That is, if an entry is not visible to users in Group A, but the entry is visible to users in Group B, the entry will be visible to any user belonging to both Groups.
Navigation Pane	If all entries in a folder of a navigation pane (for example, the Tasks folder in the Automation Center navigation pane) are not visible to a Group, that folder does not display for any user in that Group.
Navigation Pane	If all entries in a navigation pane are not visible to a Group, that navigation pane does not display for any user in that Group.
Automation Center Navigation Pane	If a Group does not have visibility to one or more entries in the configurable Automation Center navigation pane, those entries are not available for configuration for any user in that Group.
Trigger Types / Task Types	If a Group does not have visibility to a specific Trigger type or Task type, that Trigger type or Task type does not display in the New drop-down menu on the All Triggers list or the All Tasks list for any user in that Group.
Universal Task Types	Dynamically created Universal Task type entries are available for selection / deselection in the Navigation Visibility field.
User Roles	The role selections for any user override any navigation visibility selections for any Group in which that user is a member.
User Roles	Navigation visibility selections for a Group do not apply to any users in the Group with the ops_admin role.

Deleting a User

Attempts to delete a user will be prohibited under the following circumstances:

- User is currently assigned as the manager for user(s).
 User is currently assigned as the manager for group(s).
 User currently associated with enabled trigger(s).
 User currently assigned as the execution user for trigger(s).
 User currently assigned as the execution user for active task instance(s).
 User currently assigned as the visible to for bundle(s).

If deletion of a user is allowed, the following information associated with the user record also will be deleted:

- User roles.
- User permissions.
- Group memberships.
- User's filters.
 User's pinned filter preferences.
 User's layout preferences.

- User's navigation preferences.
 User's reports (reports made visible only to that user).
 User's user preferences.
- User's dashboards.

Copying Groups

- Overview
- Copying One or More Groups from a Groups List
- Copying a Group from the Group Details
- Copy Permissions

Overview

You can make copies of all Universal Controller records, including Groups, using the standard method for Copying a Record: selecting Insert on the Action menu.

However, this method does not make copies of any records that are associated with the copied record. For Groups, **Insert** does not make copies of any Group Roles, Group Members, and Permissions that are associated with the Group.

The Copy option allows you to make a complete copy of a Group, including all records associated with the Group.

Copying One or More Groups from a Groups List

Step 1	From the Administration navigation pane, select Security > Groups to display the Groups list.
Step 2	Locate the Group(s) you want to copy (see Filtering).

Copy One Group
 Right-click the Group Name. On the Action menu, , select Copy. A Copy Group pop-up dialog displays.
Copy Group
Enter a new name for the Group and click Submit.
Name : stonebranch-group-1 - Copy
Exclude Direct Group Roles :
Exclude Group Members :
Exclude Permissions :
Submit Cancel
Submit Cancel
3. Enter a new name for the Group and, optionally, exclude any of the following records from the copy:
 Enter a new name for the Group and, optionally, exclude any of the following records from the copy: Group Roles Group Members Permissions
 Enter a new name for the Group and, optionally, exclude any of the following records from the copy: Group Roles Group Members
 Enter a new name for the Group and, optionally, exclude any of the following records from the copy: Group Roles Group Members Permissions
 3. Enter a new name for the Group and, optionally, exclude any of the following records from the copy: Group Roles Group Members Permissions 4. Click Submit to create a copy of the Group. Copy Multiple Groups Ctrl-Click the Groups that you want to copy.
 3. Enter a new name for the Group and, optionally, exclude any of the following records from the copy: Group Roles Group Members Permissions 4. Click Submit to create a copy of the Group.
 3. Enter a new name for the Group and, optionally, exclude any of the following records from the copy: Group Roles Group Members Permissions 4. Click Submit to create a copy of the Group. Copy Multiple Groups Ctrl-Click the Groups that you want to copy. Right-click any of the selected Groups. On the Action menu, select Copy. On the Action menu, select Copy. On the Confirmation pop-up that displays, click OK. The copied Groups are added to the list, with - Copy added as a suffix to the Group Name for each Group. If a Group with that - Copy

Copying a Group from the Group Details

Step 1	Select a Group from the Groups list. The Group Details for that Group displays.
--------	---

Step 2	Either:
	 Click the Copy button. Right-click the Details to display the Action menu, and then click Copy. A Copy Group pop-up dialog displays.
	Copy Group
	Enter a new name for the Group and click Submit.
	Name : stonebranch-group-1 - Copy
	Exclude Direct Group Roles :
	Exclude Group Members :
	Exclude Permissions :
	Submit Cancel
Step 3	Enter a new name for the Group and, optionally, exclude any of the following records from the copy:
	 Group Roles Group Members Permissions
Step 4	Click Submit to create a copy of the Group.

Copy Permissions

To copy a Group, you must have either the ops_admin or ops_user_admin role.

Roles and Permissions

- Overview
- Assigning Roles to Users or Groups
 Description of Roles
- Assigning Permissions to Users or Groups
- General Permissions Field Descriptions
- Types of Permissions
 - Agent Permissions
 - Agent Cluster Permissions
 - Application Permissions
 - Bundle Permissions
 - Calendar Permissions
 - Credential Permissions
 - Database Connection Permissions
 - Email Connection Permissions
 - Email Template Permissions
 - OMS Server Permissions
 - PeopleSoft Connection Permissions
 - Promotion Target Permissions
 - SAP Connection Permissions
 - Script Permissions
 - SNMP Manager Permissions
 - Task Permissions
 - Task Instance Permissions
 - Trigger Permissions
 - Variable Permissions
 - Virtual Resource Permissions
- Exporting Permissions for a Group

Overview

Roles control user and group access to administrative functions within Universal Controller. A user or group that has been assigned a role has permission to perform any function defined for that role.

Permissions control user and group access to specific functions for specific types of Controller records.

Some roles have permissions for specific functions that can be assigned individually. For example, a user that has been assigned the ops_agent_cluster_admin role has permission to perform all functions associated with Agent Clusters. A user that has not been assigned the ops_agent_cluster_admin role still can be given permission to perform individual functions associated with Agent Clusters via the Agent Cluster Permissions.

Conversely, since there is no role associated with Agents, permissions for a user to perform functions associated with Agents must be assigned specific Agent Permissions.

Note The ops_ admin role assigns a user permission to perform all functions.

Assigning Roles to Users or Groups

Roles control user access to functions that include:

- Setting up security.
 Creating reports, filters, and gauges.
 Creating Agent Clusters, SNMP Managers.
 Creating Email Connections, Database Connections, PeopleSoft Connections, and SAP Connections.
- Creating and promoting bundles of records.

Each role is a predefined collection of administrative functions (see Description of Roles, below). By assigning a role to a user or group, you automatically give that user or group all functions associated with that role.

Note

You cannot add new roles to the Controller; you must assign administrative functions to groups or users using the predefined roles.

To assign roles to a user or group:

Step 1	Open a User or Group record.
Step 2	For a User, click the User Roles tab. A list of Roles assigned to the User displays.
	User Details: stone a branch
	User Olser Roles Member of Groups Permissions
	2 User Roles Edit
	Role Granted By Inherted Updated By Updated The Updated By Updated
	To the second group of the
	Sas report global No ops.admin 2018-07-06 11:20:28-0400
	For a Group, click the Group Roles tab. A list of Roles assigned to the Group displays.
	2 Group Roles Edit
	Role Granted By Inherits Updated By Updated
	The part of the second se
	i constructive con

Collection	Name ^	Role List stonebranch 01			
Name Image: Constraint of the second secon	Name ^		•		
ops_admin ops_agent_cluster_admin ops_audit_view ops_bundle_admin ops_dashboard_global ops_dashboard_group ops_dba ops_email_admin	rvane				
ops_agent_cluster_admin ops_audit_view ops_bundle_admin ops_dashboard_global ops_dashboard_group ops_dba ops_dmin					
ops_audit_view ops_bundle_admin ops_dashboard_global ops_dashboard_group ops_dba ops_dba					
ops_bundle_admin ops_dashboard_global ops_dashboard_group ops_dba ops_email_admin					
ops_dashboard_global ops_dashboard_group ops_dba ops_email_admin					
ops_dashboard_group ops_dba ops_email_admin					
ops_dba ops_email_admin					
ops_email_admin					
ops_filter_group					
ops_forecast_view					
ops_imex					
ops_ldap_admin					
	→				
	+				
	••				
		None			
ops_promotion_admin	44	- None			
ops_property_admin					
ops_report_admin					
ops_report_global					
ops_report_group					
ops_report_publish					
ops_restore_version					
ops_sap_admin					
ops_server_operation_admin					
ops_service					
ops_snmp_admin					
ops_sso_admin					
ops_universal_template_admin					
ops_universal_template_view					
ops_user_admin					
ops_widget_admin					

Step 5	To assign a Role to the User / Group, move the Role from the Collection window to the Roles window:
	 To move a single Role, double-click it or click it once and then click the > arrow. To move multiple Roles, Ctrl-click them and then click the > arrow. To move all Roles, click the >> arrow.
	To unassign a Role to the User / Group, move the Role from the Roles window to the Collection window:
	 To move a single Role, double-click it or click it once and then click the < arrow. To move multiple Roles, Ctrl-click them and then click the < arrow. To move all Roles, click the << arrow.
Step 6	Click Save.

Description of Roles

The following table summarizes the roles available in the Controller.

	Ro	le Name	Available Functions		Contains Roles
--	----	---------	---------------------	--	-------------------

	All functions; this is the Universal Controller administrator role. The easiest way to assign full permissions to a user is to add the user to the Administrator Group, which by default is assigned the ops_admin role.	 ops_agent _cluster_a dmin ops_audit_ view ops_bundl e_admin ops_dba ops_dba ops_filter_ global ops_filter_ group ops_foreca st_view ops_foreca st_view ops_foreca st_view ops_foreca dmin ops_multi_ update ops_multi_ update ops_peopl esoft_admin ops_proper ty_admin ops_proper ty_admin ops_restor e_version ops_sap_a dmin ops_server _operation _admin ops_service ops_ssonm_ admin ops_sso_a dmin
		dmin • ops_univer sal_templat e_admin • ops_user_ admin
uster_admin	Create, read, update, and delete agent clusters.	
	(Also see Agent Cluster Permissions, below.)	
ops_audit_view	Read Audits.	

ops_bundle_ admin	 Create, read, update, and delete Bundles. View Promotion Targets, including agent mappings. View Promotion History. View a record's list of bundles. View Promotion Schedules. Add a record to a bundle. Create bundles by date. Generate a Bundle Report. (Also see Bundle Permissions and Promotion Target Permissions, below.)	
ops_dashboa rd_global	Create, update, and delete Dashboards with Everyone visibility; updating includes updating Dashboard visibility.	
ops_dashboa rd_group	Create, update, and delete Dashboards that are visible for a group in which this user is a member; updating includes updating Dashboard visibility.	
ops_dba	Create, update, delete Database Connections.	
	(Also see Database Connection Permissions, below.)	
ops_email_ad min	Create, read, update, delete Email Connections.	
	(Also see Email Connection Permissions, below.)	
ops_filter_glo bal	Create Filters with Everyone visibility.	
ops_filter_gro up	Create Filters that belong to a group of which this user is a member.	
ops_forecast _view	Read Forecast Calendar, Forecasts List, and Forecast Details. Note Users also can read forecast information, without being assigned this role, if they have Read permission for the Task specified in the Forecast Details.	
ops_imex	List Import/Export XML.	
ops_ldap_ad min	Read and update LDAP Settings.	
ops_multi_up date	Update multiple records.	
ops_oms_ad min	Create, update, and delete OMS Servers.	
ops_peopleso ft_admin	Create, read, update, and delete PeopleSoft Connections. (Also see PeopleSoft Connection Permissions, below.)	
ops_promotio n_accept_bu ndle	Accept bundles being promoted to a target server. (The Accept Bundle command is executed on the target server automatically as part of the Promote and Promote Bundle commands and does not involve user interaction.)	

ops_promotio n_admin	Create, read, update, and delete Promotion Targets, including agent mappings.	ops_promo
	 View Bundles. Refresh Target Agents. 	tion_accept _bundle
	 Promote records. Promote or schedule the promotion of a bundle. 	
	 Reschedule, cancel, and delete Promotion Schedules. 	
	Generate a Bundle report.	
	 Accept bundles being promoted to a target server. (The Accept Bundle command is executed on the target server automatically as part of the Promote and Promot e Bundle commands and does not involve user interaction.) 	
	Note	
	By default, the ops_promotion_admin role also grants Read permission for any type of definition that can be added to a Bundle, given the expectation that a promotion administrator would review the content of a Bundle before promoting it. To change this default behaviour, see the Promotion Read Permission Required Universal Controller property.	
	(Also see Bundle Permissions and Promotion Target Permissions, below.)	
ops_property _admin	Read, update, and delete Universal Controller system properties and Password Settings.	
ops_report_a dmin	 Create, read, update, and delete any report, regardless of visibility, in addition to the roles granted by the ops_widget_admin role. Create, update, and delete Dashboards with Everyone visibility and Dashboards that are visible for a group in which this user is a member; updating includes updating Dashboard visibility. 	 ops_dashb oard_global ops_dashb
	The Strict Report Create Constraints Universal Controller system property specifies whether or not to restrict report creation only to users with the ops_admin, ops_report_group, or ops_report_global role.	oard_group ops_report _global
	The Strict Dashboard Create Constraints Universal Controller system property specifies whether or not to restrict Dashboard creation only to users with the ops_admin, ops_report_admin, ops_dashboard_group, or ops_dashboard_global role.	 ops_report _group ops_report _publish ops_widget _admin
ops_report_gl obal	Create global reports.	
ops_report_gr oup	Create reports that belong to a group to which this user is a member.	
ops_report_p ublish	Publish reports. (This role was applicable only to the Controller 5.x release.)	
ops_restore_ version	Restore old versions of records.	
ops_sap_ad min	Create, read, update, and delete SAP Connections.	
	(Also see SAP Connection Permissions, below.)	
ops_server_o peration_adm in	Run Server Operations.	

ops_service	 Log in and view Home Dashboard. The Active Task Instances By Status widget will remain blank unless the user is assigned the Task Instance Read permission, as the ops_service role does not include access to such data. Read Agents. Read Universal Controller system properties. Read Password Settings. Read LDAP Settings (and run the Test Connection command). Read Single Sign-On Settings. Read Universal Templates and related data (Fields and Field Choices). Read Data Backup/Purge. Unless the user also is assigned the ops_audit_view role, the Audit tab on the Data Backup/Purge Details, which allows for conveniently viewing related Audit records, will not be available. Read Users and related data (Roles, Group Membership, and Permissions). Read Groups and related data (Roles, Group Membership, Child Groups, and Permissions). 	
ops_snmp_a dmin	Create, read, update, and delete SNMP Managers, to which the Controller sends SNMP notifications. (Also see SNMP Manager Permissions, below.)	
ops_sso_adm in	Read and update Single Sign-On Settings.	
ops_universal _template_ad min	Create, read, update, and delete Universal Templates.	 ops_univer sal_templat e_view
ops_universal _template_view	Read Universal Templates.	
ops_user_ad min	Create, read, update, and delete users and groups.	
ops_widget_a dmin	Create, update, and delete Widgets.	

Assigning Permissions to Users or Groups

Permissions control user access to specific types of Controller records, such as task or trigger, and the types of functions that can be performed for those record types, such as create or delete.

You can further narrow down which records each permission applies to by specifying either name parameters or Business Services. For example, a given permission might apply only to tasks whose name begins with "SF," or a permission might apply only to tasks that have been assigned to a specific Business Service or to tasks that do not belong to any Business Services. See General Permissions Field Descriptions, below, for more details.

To add permissions to a user or group:

Step 1	Open a User or Group record.

User @ User Ricks @ Member of Groups @ Permissions 2Previous or commands Nume User Ricks Update By Updated
2 Permissione
Agent Read, Update, Execute Ves storebranchbusinesservice 01 ops.adm 2016-06-17 13:28:14-0400 Task Read, Update ALL Ves storebranchbusinesservice 03 ops.adm 2016-06-17 13:28:02-0400 Text Read, Update Control Read Read, Update Control Read Read Read Read Read Read Read Read
Agent Read, Update Execute Yes stonebranchbusinesservice 01 ops.adm 2016-06-17 1329:14-0400 ops.adm 2016-06-17 1329:02-0400 ops.adm 2016-06-17 1400 ops.adm 2016-06-1
Tesk Read, Update ALL • Yes stonebranchbusinessservice 03 ops.adm 2016-06-17 13:29:32-0400
A e Business Services column represents a virtual field whose value is determined by data from both the Member of Business Services field and the Member of Any Busine
A e Business Services column represents a virtual field whose value is determined by data from both the Member of Business Services field and the Member of Any Busine
A e Business Services column represents a virtual field whose value is determined by data from both the Member of Business Services field and the Member of Any Busine
A e Business Services column represents a virtual field whose value is determined by data from both the Member of Business Services field and the Member of Any Busine
A e Business Services column represents a virtual field whose value is determined by data from both the Member of Business Services field and the Member of Any Busine
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A e Business Services column represents a virtual field whose value is determined by data from both the Member of Business Services field and the Member of Any Busine
A e Business Services column represents a virtual field whose value is determined by data from both the Member of Business Services field and the Member of Any Busine
A e Business Services column represents a virtual field whose value is determined by data from both the Member of Business Services field and the Member of Any Busine
A e Business Services column represents a virtual field whose value is determined by data from both the Member of Business Services field and the Member of Any Busine
A e Business Services column represents a virtual field whose value is determined by data from both the Member of Business Services field and the Member of Any Busine
assigned fields as columns and apply the desired sort on either or both of them.
ck New . The Permissions Details pop-up displays.
ermission Details
🗑 Save & New 💥 Close
🗑 Save & New 💥 Close
Permission Details
Permission Details Type : v
Permission Details Type: Create: Create:
Permission Details Create : Read :
Permission Details Creat: Read: Update: Update:
Permission Details Create : Read :
Permission Details Creat: Read: Update: Update:
Permission Details Create: Read: Update: Deteile: Commands: None V
Permission Details Create : Read : Detail : Create : Create : Read : Detail : Commands : Name : *
Permission Details Create: Read: Update: Deteile: Commands: None V
Permission Details Type: Create: Read: Create: Creat
Permission Details Creat: Read: Creat: Creat: Cre

Step 4 Select permissions for the selected user or group. The permissions available differ depending on the Type of permission that you select. Available permissions are Create, Read, Update, Delete, and Execute. For some record types, additional Commands are available. If the permission does not apply to the record type in the Type drop-down, the permission does not appear in the display. These permissions automatically include other permissions: • Create permission includes Read and Update permissions. • Update permission includes Read permission. • Delete permission includes Read permission.

General Permissions Field Descriptions

The following fields of information and buttons display in the Permissions Details for all Permission types:

Field Name	Description
Details	This section contains detailed information about the permission.
Name	Applies this permission to records whose name matches the string specified here. Wildcards are supported.
Member of Any Business Service or Unassigned	Applies this permission both to records that belong to any Business Service and to records that do not belong to any Business Service.
Unassigned to Business Service	Applies this permission to records that do not belong to any Business Service. If this option is enabled, the user / user group will have the defined permissions on all records that do not belong to any Business Service.
Member of Business Services	Applies this permission to records that are members of the selected Business Service(s). Click the lock icon to unlock the field and select Business Services.
Metadata	This section contains Metadata information about this record.
UUID	Universally Unique Identifier of this record.
Updated By	Name of the user that last updated this record.
Updated	Date and time that this record was last updated.
Created By	Name of the user that created this record.
Created	Date and time that this record was created.
Buttons	This section identifies the buttons displayed above and below the Permissions Details that let you perform various actions.
Save	Saves a new record in the Controller database.
Save & New	Saves a new record in the Controller database and redisplays empty Details so that you can create another new record.
Update	Saves updates to the record.
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.

Types of Permissions

This section identifies the different types of permissions that you can add to a user or group.

Agent Permissions

Permission Details					
		🦷 Sa	ve Save & New	📄 Save & View	💥 Close
Permission					
Details					
Type :	Agent	•			
Read :					
Update :					
Delete :					
Execute :					
Commands :		~			
Name :	None ALL				
Member of Any Business Service or Unassigned :	Resume Agent	Unassigned to Business Service :			
Member of Business Services :					~
📰 Save 🕼 Save	e & New 👔 Save & View 🗱 Close				

Options	Description
Read	Grants permission to read an Agent definition.
	The Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.
Update	Grants permission to update an Agent definition. (Only certain fields can be updated.)
Delete	Grants permission to delete an Agent.
Execute	Grants permission to execute a task on an Agent.
Commands	 ALL: Grants permission to suspend and resume Agents. Resume Agent: Grants permission to resume the ability of a suspended Agent to run tasks. Suspend Agent: Grants permission to suspend the ability of an Agent to run tasks.

Agent Cluster Permissions

(You also can assign Agent Cluster Permissions to a user by assigning the ops_agent_cluster_admin role to the user.)

Permission Details						
			Save	🕼 Save & New	📄 Save & View	💢 Close
Permission						
- Details						
Type :	Agent Cluster					
Create :						
Read :	\checkmark					
Update :						
Delete :						
Commands :	None 🗸 🗸					
Name :	None					
Member of Business	ALL Resume Agent Cluster Suspend Agent Cluster Resume Agent Cluster Membership Suspend Agent Cluster Membership	Unassigned to Business Service :				~
	Resolve Agent Cluster & New 👔 Save & View 🗱 Close					

Options	Description
Create	Grants permission to create a new Agent Cluster.
Read	Grants permission to read an Agent Cluster definition.
	The Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.
Update	Grants permission to update an Agent Cluster definition. (Only certain fields can be updated.)
Delete	Grants permission to delete an Agent Cluster.
Commands	 ALL: Grants permission to issue any command. Resume Agent Cluster: Grants permission to resume the ability of a suspended Agent Cluster to run tasks. Suspend Agent Cluster: Grants permission to suspend the ability of an Agent Cluster to run tasks. Resume Agent Cluster Membership: Grants permission to resume the membership of an Agent in an Agent Cluster. Suspend Agent Cluster Membership: Grants permission to suspend the membership of an Agent from an Agent Cluster. Resolve Agent Cluster: Grants permission to resolve the Network Alias of an Agent Cluster with a Distribution type of Network Alias.

Application Permissions

Permission Details						
			🗒 Save	🕼 Save & New	📄 Save & View	💢 Close
Permission						
Details						
Permission Details Type : Create : Read : Update : Delete : Commands : Name : Member of Any Business Service or Unassigned : Member of Business Services : Emails Save Emails Save	Application					
Create :						
Read :						
Update :						
Delete :						
Commands :	None 🗸 🗸					
Name :	None ALL					
Member of Any Business	Start	Unassigned to Business Service :	7			
Service or Unassigned :	Stop	Service : 🖻				
Member of Business Services :	Query					~
🔚 Save 🕼 Save & New 👔 Save & View 🗱 Close						

Options	Description
Create	Grants permission to create a new Application.
Read	Grants permission to read an Application.
Update	Grants permission to update an Application.
Delete	Grants permission to delete an Application.
Commands	 See Application Control Tasks for details. Options: ALL: Grants permission to execute a Start, Stop, and Query from the Application resource screen. Start: Grants permission to execute a Start from the Application resource screen. Stop: Grants permission to execute a Stop from the Application resource screen. Query: Grants permission to execute a Query from the Application resource screen.

Bundle Permissions

(You also can assign Bundle Permissions to a user by assigning the ops_bundle_admin role to the user.)

Permission Details						
			🔗 Save	🕼 Save & New	📄 Save & View	💢 Close
Permission						
Details						
Details Type : Create : Read : Update : Delete : Commands : Name : Member of Any Business	Bundle v					
Create :						
Read :						
Update :						
Delete :						
Commands :	None 🗸 🗸					
Name :	None ALL					
Member of Any Business Service or Unassigned :	Promote Bundle	Unassigned to Business Service :	7			
Member of Business Services :		Service .				~
🔚 Save 🕞 Save	& New 📄 Save & View 🛛 🗱 Close					

Options	Description
Create	Grants permission to create a Bundle matching both the specified name wildcard and business service membership, including the use of the Create Bundle By Date and Create Bundle By Business Service commands.
Read	 Grants permission to read a Bundle matching both the specified name wildcard and business service membership. User can run a Bundle Report for a Bundle matching both the specified name wildcard and business service membership. User can Read a Promotion Schedule associated with a Bundle matching both the specified name wildcard and business service membership.
Update	Grants permission to update a Bundle matching both the specified name wildcard and business service membership, including the use of the Add To Bundle command.
Delete	Grants permission to delete a Bundle matching both the specified name wildcard and business service membership.
Commands	 ALL: Grants permission to issue any command. Promote Bundle: Grants permission to promote a Bundle. For the ALL or Promote Bundle command: User can promote a Bundle matching both the specified name wildcard and business service membership, assuming the user has Read permission for the Bundle. User can Cancel, Reschedule, or Delete a Promotion Schedule associated with a Bundle matching both the specified name wildcard and business service membership, assuming the user has Read permission for the Bundle.

Calendar Permissions

Permission Details				
		📳 Save	🕼 Save & New	💢 Close
Permission				
Details				
Type :	Calendar			
Create :				
Read :				
Update :				
Delete :				
Commands :				
	None ALL			
Member of Any Business Service or Unassigned :	Copy Calendar Unassigned to Business Service :			
Member of Business Services :				*
Save 🕞 Save	we & New 👔 Save & View 🗱 Close			

Options	Description
Create	Grants permission to create a new Calendar.
Read	Grants permission to read a Calendar.
	The Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.
Update	Grants permission to update a Calendar.
Delete	Grants permission to delete a Calendar.
Commands	 ALL: Grants permission to issue any command. Copy Calendar: Grants permission to copy a Calendar.

Credential Permissions

Permission Details					
		🔗 Save	🕼 Save & New	💥 Clo	ose
Permission					
Details					_
Туре :	Credential 👻				
Create :					
Read :	V				
Update :					
Delete :					
Execute :					
Commands :					
Name :	None				
Member of Any Business Service or Unassigned :	Unassigned to Business Service :				
Member of Business Services :				~	•
🛛 🕅 Save 🕼 Sa	ve & New Save & View Close				

Options	Description
Create	Grants permission to create a new Credential.
Read	Grants permission to read a Credential.
	The Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.
Update	Grants permission to update a Credential.
Delete	Grants permission to delete a Credential.
Execute	Grants permission to execute a task that requires a Credential.
Commands	N/A

Database Connection Permissions

(You also can assign Database Connection Permissions to a user by assigning the ops_dba role to the user.)

Permission Details					
			Save 🕞 Save & New	📄 Save & View	💢 Close
Permission					
Details					
Type :	Database Connection				
Create :					
Read :					
Update :					
Delete :					
Commands :					
Name :	None ALL				
Service or Unassigned :	Copy Database Connection Test Connection	Unassigned to Business Service :			
Member of Business Services :					~
🕎 Save 🕞 Save	e & New 👔 Save & View 🗱 Close				

Options	Description
Create	Grants permission to create a new Database Connection.
Read	Grants permission to read a Database Connection.
	The Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.
Update	Grants permission to update a Database Connection.
Delete	Grants permission to delete a Database Connection.
Execute	Grants permission to execute a task that requires a Database Connection. (Displays only if the Strict Connection Execute Constraints Universal Controller system property is true.)
Commands	 ALL: Grants permission to issue any command. Copy Database Connection: Grants permissions to copy a Database Connection. Test Connection: Grants permission to test a Database Connection.

Email Connection Permissions

(You also can assign Email Connection Permissions to a user by assigning the ops_email_adminrole to the user.)

Permission Details Type : Email Connection Create : Read : Update : Detete : Commands : -None Name: -None All Member of Any Business Service of Unassigned Service of Consection Test Connection Unassigned to Business Service :	
Permission Details Create : Read : Update :	e
Details Type: Email Connection Create:	
Type: Email Connection	- I
Create : Read : Update :	Ш
Read: Update:	
Update : 🕅	
Delete : 🕅	
Commands : None 💌	
Name :	
Member of Any Business Service or Unassigned : Copy Email Connection Unassigned to Business Service : Service or Unassigned : Test Connection Service :	
Member of Business Services :	
🕎 Save 🕼 Save & New 🖹 🖹 Save & View 🗱 Close	-

Options	Description
Create	Grants permission to create a new Email Connection.
Read	Grants permission to read an Email Connection.
	The Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.
Update	Grants permission to update an Email Connection.
Delete	Grants permission to delete an Email Connection.
Execute	Grants permission to execute a task that requires an Email Connection. (Displays only if the Strict Connection Execute Constraints Universal Controller system property is true.)
Commands	 ALL: Grants permission to issue any command. Copy Email Connection: Grants permissions to copy an Email Connection. Test Connection: Grants permission to test an Email Connection.

Email Template Permissions

Permission Details Type : Email Template Create : Read: Update : Detelet : Commands : - None Name : - None Member of Any Business Service : Service : Service : Image: Save & New Save & New Save & New Save & New Save & New	Permission Details					
Details Type : Email Template ✓ Create :			🖷 S	ave ፍ Save & New	📄 Save & View	💥 Close
Type: Email Template Create:	Permission					
Create : Read : Update : Delete : Commands :None Name:None ALL Copy Email Template Unassigned to Business Service or Unassigned : Member of Business Service : Member of Business Service : Member of Business	Details					
Read: Update: Delete: Commands: -None Name: -None ALL Copy Email Template Unassigned to Business Service : Services:	Type :	Email Template v				
Update : Delete : Commands : None Name : Member of Any Business Service or Unassigned to Business Service or Business Services : Member of Business Services : Member of Business	Create :					
Delete : Commands : - None Name : - None ALL Copy Email Template Member of Business Service :	Read :					
Commands: - None • Name: - None - Member of Any Business Service or Unassigned: - Unassigned to Business Service : Member of Business Services: Service :	Update :					
Name: -None ALL Copy Email Template Unassigned to Business Service : Member of Business Service : Services : Service :	Delete :					
Member of Any Business Service or Unassigned: Copy Email Template Unassigned to Business Service: Member of Business Services: Image: Copy Email Template Image: Copy Email Template						
Member of Any Business Service or Unassigned to Business Member of Business Services :	Name :	None				
Member of Business Services :	Member of Any Business Service or Unassigned :	Copy Email Template	Unassigned to Business Service :			
🔚 Save & New 🕞 Save & View 🗱 Close	Member of Business					~
	Save 🕞 Save	& New 👔 Save & View 🗱 Close				

Options	Description
Create	Grants permission to create a new Email Template.
Read	Grants permission to read an Email Template.
	The Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.
Update	Grants permission to update an Email Template.
Delete	Grants permission to delete an Email Template.
Commands	 ALL: Grants permission to issue any command. Copy Email Template: Grants permission to copy an Email Template.

OMS Server Permissions

(You also can assign OMS Server Permissions to a user by assigning the ops_oms_admin role to the user.)

Pe	rmission Details							
				🖷 Save	🕼 Save & New	📄 Save & View	💥 CI	lose
	Permission							
ll r	– Details –							
	Type :	OMS Server	~					
	Create :							
	Read:							
	Update :							
	Delete :							
	Commands :		~					
	Name :	None						
	Member of Any Business Service or Unassigned :	ALL Resume		Unassigned to Business Service :				
	Member of Business Services :							~
	📆 Save 🦷 Save	e & New 👔 Save & View 🗱 Close						

Options	Description
Create	Grants permission to create a new OMS Server.
Read	Grants permission to read an OMS Server.
	The Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.
Update	Grants permission to update an OMS Server.
Delete	Grants permission to delete an OMS Server.
Commands	 ALL: Grants permission to suspend and resume OMS Servers. Resume: Grants permission to resume the connection of a suspended OMS Server. Suspend: Grants permission to suspend the connection of an OMS Server.

PeopleSoft Connection Permissions

(You also can assign PeopleSoft Connection Permissions to a user by assigning the ops_peoplesoft_admin role to the user.)

Permission Details						_ – ×
			🔚 Save	🕼 Save & New	📄 Save & View	💥 Close
Permission						
Details						
Type :	PeopleSoft Connection 🗸					
Create :						
Read :						
Update :						
Delete :						
Commands :						
Name :	None ALL					
Member of Any Business Service or Unassigned :	Copy PeopleSoft Connection	Unassigned to Business Service :	7			
Member of Business Services :						*
📄 Save 🕞 Save	e & New 👔 Save & View 🗱 Close					

Options	Description
Create	Grants permission to create a new PeopleSoft Connection.
Read	Grants permission to read a PeopleSoft Connection.
	The Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.
Update	Grants permission to update a PeopleSoft Connection.
Delete	Grants permission to delete a PeopleSoft Connection.
Execute	Grants permission to execute a task that requires a PeopleSoft Connection. (Displays only if the Strict Connection Execute Constraints Universal Controller system property is true.)
Commands	 ALL: Grants permission to issue any command. Copy PeopleSoft Connection: Grants permission to copy a PeopleSoft Connection.

Promotion Target Permissions

(You also can assign Promotion Target Permissions to a user by assigning the ops_promotion_admin role to the user.)

Permission Details						
			🔚 Save	🔚 Save & New	📄 Save & View	X Close
Permission						
Details						
Type :	Promotion Target					
Create :						
Read :						
Update :						
Delete :						
Execute :						
Commands :	None 👻					
Name :	None ALL					
Member of Any Business Service or Unassigned :	Refresh Target Agents	Unassigned to Business Service :	v			
Member of Business		Service .				
Permission Details Type : Create : Read : Update : Delete : Execute : Commands : Name : Member of Any Business Service or Unassigned : Member of Business Services : Execute : Service : S						~
🔚 Save 🛛 🕞 Save	& New 👔 Save & View 🗱 Close					

Options	Description
Create	Grants permission to create a Promotion Target matching both the specified name wildcard and business service membership.
Read	Grants permission to read a Promotion Target matching both the specified name wildcard and business service membership.
	User can View Target Server Info for Promotion Target matching both the specified name wildcard and business service membership.
Update	Grants permission to update a Promotion Target matching both the specified name wildcard and business service membership.
Delete	Grants permission to delete a Promotion Target matching both the specified name wildcard and business service membership
Execute	Grants permission to promote a Bundle using a Promotion Target matching both the specified name wildcard and business service membership, assuming the user has both Read permission and Promote Bundle command permission for the Bundle.
Commands	 ALL: Grants permission to issue any command. Refresh Target Agents: Grants permission to refresh Target Agents.

SAP Connection Permissions

(You also can assign SAP Connection Permissions to a user by assigning the ops_sap_admin role to the user.)

Permission Details					
		📳 Save	🕼 Save & New	📄 Save & View	💢 Close
Permission					
- Details					
Type :	SAP Connection				
Create :					
Read :					
Update :					
Delete :					
Commands :					
Name :	None				
Member of Any Business Service or Unassigned :	ALL Copy SAP Connection	Unassigned to Business Service :			
Member of Business Services :					~
📰 Save 🕞 🦷 Save	e & New 📄 😭 Save & View 🗱 Close				

Options	Description					
Create	Grants permission to create a new SAP Connection.					
Read	Grants permission to read an SAP Connection.					
	ne Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.					
Update	Grants permission to update an SAP Connection.					
Delete	Grants permission to delete an SAP Connection.					
Execute	Grants permission to execute a task that requires an SAP Connection. (Displays only if the Strict Connection Execute Constraints Universal Controller system property is true.)					
Commands	 ALL: Grants permission to issue any command. Copy SAP Connection: Grants permissions to copy an SAP Connection. 					

Script Permissions

Permission Details				
	🗒 Save	🕼 Save & New	📄 Save & View	💥 Close
Permission				
C Details				
Type: Script				
Create : 🕅				
Read:				
Update : 🕅				
Delete : 🔲				
Execute :				
Commands : None 🗸 🗸				
Name : None ALL				
Member of Any Business Service or Unassigned : Service or Unassigned :	/			
Member of Business Services :				*
🔚 Save & New 🕞 Save & View 🗱 Close				

Options	Description					
Create	Grants permission to create a new Script.					
Read	Grants permission to read a Script.					
Update	Grants permission to update a Script.					
Delete	rants permission to delete a Script.					
Execute	Grants permission to execute a Script contained by a task.					
Commands	ALL: Grants permission to issue any command.Copy Script: Grants permission to copy a Script.					

SNMP Manager Permissions

(You also can assign SNMP Manager Permissions to a user by assigning the ops_snmp_admin role to the user.)

Permission Details						
		Save	🕼 Save & New	💼 Save & View	💢 Close	
Permission						
Details						
Type : S	SNMP Manager 🗸 🗸					
Create :						
Read:						
Update :						
Delete :						
Commands :	- None 🗸 🗸					
	- None					
Member of Any Business Service or Unassigned :	ALL Copy SNMP Manager	Unassigned to Business Service :				
Member of Business Services :					~	
🛜 Save 🕼 Save & New 👔 Save & View 🗱 Close						

Options	Description					
Create	Grants permission to create a new SNMP Manager.					
Read	Grants permission to read an SNMP Manager.					
	The Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.					
Update	Grants permission to update an SNMP Manager.					
Delete	Grants permission to delete an SNMP Manager.					
Execute	Grants permission to execute a task that requires an SNMP Manager. (Displays only if the Strict Connection Execute Constraints Universal Controller system property is true.)					
Commands	 ALL: Grants permission to issue any command. Copy SNMP Manager: Grants permissions to copy an SNMP Manager. 					

Task Permissions

Permission Details							_][][×
			📰 Save	🕼 Save & New	📄 Save & View	× (Close
Permission							
Details							
Permission Details Type : Create : Read : Update : Delete : Commands : Name : Member of Any Business Service or Unassigned : Member of Business Services : Emails Save Emails Save	Task	٧					
Create :							
Read :							
Update :							
Delete :							
Commands :	None	~					
Name :	None ALL						
Member of Any Business	Oanu Taak		Unassigned to Business				
Service or Unassigned :	Launch Recalculate Forecast		Service :				_
Services :	Reset Statistics						\sim
	Reset z/OS Override Statistics						
🔚 Save 🕞 Save	Set Execution Restriction						

Options	Description
Create	Grants permission to create a new Task.
Read	Grants permission to read a Task.
Update	Grants permission to update a Task.
Delete	Grants permission to delete a Task.
Commands	 ALL: Grants permission to issue any command. Copy Task: Grants permission to copy a Task. Launch: Grants permission to launch a Task. Recalculate Forecast: Grants permission to recalculate a forecast. Reset Statistics: Grants permission to reset statistics, including statistics being tracked by each parent Workflow of a Task. Reset z/OS Override Statistics: Grants permission to reset an execution restriction for a task in a workflow.

Task Instance Permissions

Permission Details							-	
			🖷 Sa	ive	🕼 Save & New	💼 Save & View	💥 CI	ose
Permission								
Details								
Туре	: Task Instance	~						
Read	:							- 11
Update	:							- 11
Delete	:							- 11
Commands	: None	¥						- 11
Name	- None	-						
Member of Any Busines			Unassigned to Business Service :					- 11
Service or Unassigned	Clear All Dependencies		Service :					
Member of Busines	s Clear Exclusive							~
Services	Clear Predecessors							<u> </u>
	Clear Resources							- 1
🔚 Save 🛛 🕞 Sa	ve Clear Time Wait/Delay	Ξ						- 1
	Force Finish							- 1
	Force Finish/Cancel Hold							- 1
	Insert Task							- 1
L	Hadres Officer			_				

Options	Description				
Create	Fask instances are created automatically when the task launches, so the Create permission does not appear.				
Read	Grants permission to read a Task Instance				
Update	Grants permission to update certain fields on a Task Instance.				
Delete	Grants permission to delete a Task Instance.				

 ALL: Grants permission to issue any command. Cancel: Grants permission to cancel a Task Instance.
 Clear All Dependencies: Grants permission to clear all dependencies on a Task Instance.
 Clear Air Dependencies. Grants permission to clear all predecessors on a Task Instance. Clear Predecessors: Grants permission to clear all predecessors on a Task Instance.
 Clear Exclusive: Grants permission to clear all mutual exclusive dependencies from a Task Instance.
 Clear Resources: Grants permission to clear all resource dependencies of a Task Instance.
 Clear Time Wait/Delay: Grants permission to clear all Wait To Start and Delay On Start specifications for a Task Instance.
 Force Finish: Grants permission to force finish a Task Instance.
 Force Finish/Cancel: Grants permission to force finish/cancel a Task Instance.
Hold: Grants permission to put a Task Instance on hold.
 Insert Task: Grants permission to insert a task on the workflow monitor of a workflow Task Instance.
Mark as Satisfied: Can mark a dependency as satisfied.
Re-run: Grants permission to re-run a Task Instance.
 Release: Grants permission to release a Task Instance from hold.
 Release Recursive: Grants permission to release a workflow and all its tasks from hold.
Retrieve Output: Grants permission to execute the Retrieve Output button.
 Set Priority Low: Grants permission to change the priority of a task to Low.
 Set Priority Medium: Grants permission to change the priority of a task to Medium.
Set Priority High: Grants permission to change the priority of a task to High.
Set Completed: Grants permission to set a Manual Task Instance status to completed.
 Set Started: Grants permission to set a Manual Task Instance status to a new started time. Obio Constance status a started backgroup of the started status and the started startes started s
 Skip: Grants permission to skip a Task Instance. Use kine Grants permission to skip a Task Instance.
 Unskip: Grants permission to unskip a Task Instance selected to be skipped.
Note
Universal Controller will initially check for command permission specifically for the task instance.
If no command permission is granted for the task instance, Universal Controller will check if command permission is granted for the parent workflow task instance, and then continue to check f
command permission up the workflow task instance hierarchy.

Trigger Permissions

Permission Details						_	
			🔛 Save	🕼 Save & New	📄 Save & View	💥 Clo	se
Permission							
Details							
Type :	Trigger	·					
Create :							
Read :							
Update :							
Delete :							
Commands :	None	·					
Name :	None						
Member of Any Business	ALL	Unassigned to Business	s 🕡				
Service or Unassigned :	Assign Execution User	Service					
Member of Business	Copy Trigger						¥
	Disable Trigger						
🔚 Save 🛛 🕞 Save	Enable Trigger						
	Recalculate Forecast						
	Set Skip Count						
	Trigger Now						

Options	Description
Create	Grants permission to create a Trigger.
Read	Grants permission to read a Trigger.
Update	Grants permission to update a Trigger.
Delete	Grants permission to delete a Trigger.
Commands	 ALL: Grants permission to issue any command. Assign Execution User: Grants permission to override the execution user of task instances launched by a Trigger. Copy Trigger: Grants permission to copy a Trigger. Disable Trigger: Grants permission to disable a Trigger. Enable Trigger: Grants permission to enable a Trigger. Recalculate Forecast: Grants permission to recalculate a forecast. Set Skip Count: Grants permission to Trigger (launch) a task.

Variable Permissions

Permission Details			
		F Save	💥 Close
Permission Details Type : Create : Read : Update : Delete : Commands : Name : Member of Any Business Service or Unassigned : Member of Business Services : Services : Service Service : Se			
Details			
Туре :	Variable		
Create :			
Read :			
Update :			
Delete :			
Commands :	None 👻		
Name :	Ż		
Member of Any Business Service or Unassigned :	Unassigned to Business Service :		
Member of Business Services :			*
F Save 🕞 S	ave & New 👔 Save & View 🔀 Close		

Options	Description
Create	Grants permission to create a Variable.
Read	Grants permission to read a Variable.
Update	Grants permission to update a Variable.
Delete	Grants permission to delete a Variable.
Commands	N/A

Enabling / Disabling Enhanced Variable Security

If you have upgraded from a Controller release that did not previously support the Variable permission type, it is important that you review and assign global variable permissions to all appropriate users/groups to avoid impacting existing workload that requires the use of global variables to execute.

By default, enhanced global variable security is enabled; the Variable Security Enabled Universal Controller system property is set to true.

This controls global variable access the following ways:

- Users with the ops_admin role have full access to all global variables.
- Users with the ops_promotion_admin role have Read access to all global variables.
- Create, Read, Update, and Delete permissions must be assigned to users explicitly if those permissions are not granted through the ops_admin or ops_promotion_admin role.
- Only those global variables for which a user has Read permission will be visible from the Variables list.
- Only those global variables for which the Execution User of a task instance has Read permission will be available within the variable scope of a task instance.

- A Set Variable action for a global variable will require appropriate global variable Create or Update permission.
 CLI and Web Services APIs will require appropriate global variable permissions depending on whether the command will Read, Create, or Update a global variable.
 Create Bundle By Date command will only add a global variable to the bundle if the:
- - Global variable qualifies for the specified date.
 - User invoking the command has Read permission for that global variable.

All defined Variable permissions will be enforced unless enhanced global variable security has been disabled by setting Variable Security Enabled to false. This allows all global variables to be managed and used by any valid Universal Controller user.

Virtual Resource Permissions

Permission Details						
			📳 Save	🕼 Save & New	📄 Save & View	💢 Close
Permission						
Details						
Type :	Virtual Resource					
Create :						
Read :						
Update :						
Delete :						
Execute :						
Commands :	None 🗸 🗸					
Name :	None ALL					
Member of Any Business Service or Unassigned :	Copy Virtual Resource	Unassigned to Business Service :	v			
Member of Business Services :						~
Permission Details Type : Create : Read : Update : Delete : Execute : Commands : Name : Member of Any Business Service or Unassigned : Member of Business Services : Execute : Services : Service Service :	& New 📄 Save & View 🗱 Close					

Options	Description
Create	Grants permission to create a virtual resource.
Read	Grants permission to read a virtual resource.
	The Read check box will be checked automatically if the Business Service Visibility Restricted Universal Controller system property is false.
Update	Grants permission to update a virtual resource.
Delete	Grants permission to delete a virtual resource.
Execute	Grants permission to execute a virtual resource.
Commands	 ALL: Grants permission to issue any command. Copy Virtual Resource: Grants permission to copy a Virtual Resource.

Enabling Enhanced Virtual Resource Security

```
Important
```

If you have upgraded from a Controller release that did not previously support the Virtual Resource permission type, it is important that you review and assign virtual resource permissions to all appropriate users /groups to avoid impacting existing workload that requires the use of virtual resources to execute.

By default, enhanced virtual resource security is enabled; the Virtual Resource Security Enabled Universal Controller system property is set to true.

This controls virtual resource access the following ways:

- All users will have **Read** access to virtual resources.
- Users with the ops_admin role will have full access to all virtual resources.
- Create, Update, Delete, and Execution permissions must be explicitly assigned to users if those permissions are not granted through the ops_promotion_admin role.
- Only those virtual resources for which the Execution User of the task instance has Execute permission can be requested by the task instance. Any virtual resource requested by task instances with an Execution User that does not have Execute permission for that virtual resource will result in the task instance going into Start Failure status, with status description Execution for virtual resource "resource-name" prohibited due to security constraints.
- Set Virtual Resource Limit System Operation action will require appropriate virtual resource Update permission.
- CLI and Web Services APIs will require appropriate virtual resource permissions: Updating a virtual resource limit through the CLI and Web Services APIs will require virtual resource Update permission.

All defined Virtual Resource permissions will be enforced unless enhanced virtual resource security has been disabled by setting Virtual Resource Security Enabled to false. This allows all virtual resources to be managed and used by any valid Universal Controller user.

Exporting Permissions for a Group

The Controller lets you export user groups and their permissions, which then can be imported into another Controller system. Only the permissions listed under the Permissions tab for each group will be exported.

Step 1	From the Administration navigation pane, select Security > Groups . The Groups list displays.
Step 2	As desired, filter the list to select the group(s) whose permissions you want to export. When you perform the export, all groups matching the filter will be exported.

✓ 5 Groups	Custom Filter None	👻 🦁 Filter 🕵 New 🧶
Name A	Description	Parent Updated By Updated
stonebranch-group-01 stonebranch-group-02 stonebranch-group-03 stonebranch-group-04 stonebranch-group-05	If Sort Ascending IF Sort Descending Configure Sort Auto FI All Columns Auto FI Columns Im Layouts Save Layout Save As Default Layout	ops.admin 2014-06-13 15:44:15-0400 ops.admin 2014-06-13 15:44:20-0400 ops.admin 2014-06-13 15:44:24-0400 ops.admin 2014-06-13 15:44:27-0400 ops.admin 2014-06-13 15:44:30-0400
✓ Group Details	Restore Default Layout	🧮 Save 🐚 Save & New 📃 New
Group O Group Roles O Group Members Details Name : Description : Save & New I Save	Import Export Export XLS (Excel) XLSX POF View Close Permissions For Group	

To export or import the Permissions For Group XML, you must have both the ops_imex and ops_admin roles.

If the groups do not exist on the import system, they (and their Permissions) will be created there.

If the groups do exist on the import system, only the description of the groups and the permissions under their **Permissions** tab will be replaced with those from the imported XML.

Credentials

- Overview
- Types of Credentials
- Converting Credential Types
- Credentials Compatibility
- Resolvable Credentials
 - Using Resolvable Credentials in a Script
 - Using Resolvable Credentials in a Task
- Embedding Resolvable Credentials
 - Restrictions on Embedding Resolvable Credentials
- Other Credentials
- Defining a Credential
 - Credential Details
 - Credential Details Field Descriptions
- Deleting a Credential

Overview

Credentials are the user ID and password under which an Agent runs tasks on the machine where the Agent resides.

By default, an Agent will run tasks under the same Credentials used to install the Agent. However, via the Controller user interface, you also can define Credentials and assign them to any task or Agent.

When prompted for Credentials, the Agent looks in the following locations, in this order, for a user ID and password:

- 1. If the task specifies Credentials, the Agent uses those Credentials.
- 2. If the task does not specify Credentials, the Agent uses the Credentials specified in its Agent Details record.
- 3. If the Agent Details does not specify Credentials, the Agent uses the Credentials used to install the Agent.

Types of Credentials

There are four types of Credentials:

Standard	Runtime user name and runtime password of a user.
Resolvable	Runtime user name and runtime password of a user that you can embed into a task or script without exposing the password in clear text.
Web Service	Runtime user name and runtime password of a user running a Web Service task.
Email	Runtime user name and runtime password of a user connecting to an incoming mail server (IMAP).
Note	

NOLE

Unless Credentials must be embedded, we recommend defining Standard Credentials. If required, you can always convert a Standard Credential to a Resolvable Credential at a future time.

Converting Credential Types

You can convert a Credential from any type to any type.

To convert a Credential type from Standard to Resolvable, Web Service, or Email, the Resolvable Credentials Permitted, Web Service Credentials Permitted, or Email Credentials Permitted Universal Controller system property, respectively, must be set to true.

To convert a Credential, either:

- Click the **Convert...** button in the Credential Details.
- Select Convert... in the Credentials Details action menu.
- Select Convert... for a specific Credential in the Credentials List action menu.

When you convert a Credential, you must provide a new password. The Controller will not convert an encrypted password of one Credential type to an encrypted password of a different Credential type.

Note

Converting a Credential type does not create a new version of the Credential. Also, you cannot restore a Credential to an older version if the Credential type of the current version is not the same Credential type as the older version.

Credentials Compatibility

As of Universal Controller 6.4.x, the Credential Runtime Passwords, along with the LDAP Settings Bind Password, Email Connection Passwords, Promotion Target Passwords, and Promotion Schedule Promotion Passwords, now are encrypted using AES with 128-bit keys.

Additionally, Standard and Resolvable Credentials are encrypted using separate keys; therefore, an encrypted password for a Standard Credential cannot be decrypted by the Resolvable Credential framework.

Under the following circumstances, conversion from the old encryption to the new encryption will be automatic. Furthermore, all pre-6.4.x credentials will be recognized as Standard credentials.

- Apply maintenance to a pre-6.4.x release of Universal Controller to increase it to a 7.0.x release.
- Perform a bulk import or list import from a pre-6.4.x release of Universal Controller to a 7.0.x release.
- Promote from a pre-6.4.x release of Universal Controller to a 7.0.x release.

Under the following circumstance, conversion from the new encryption to the old encryption will be automatic.

• Promote from a 7.0.x release of Universal Controller to a compatible pre-6.4.x release. However, any attempt to promote a Resolvable Credential from a 7.0.x release of Universal Controller to a compatible pre-6.4.x release will fail.

Pre-6.4.0.0 releases cannot decrypt anything encrypted by a 7.0.x release, with the exception of promotion (noted above), which is fully backwards compatible.

Please note the following backwards compatibility constraints with respect to List Import, Bulk Import, and the Universal Controller Start-up Properties (opswise.properties).

- Any attempt to List Import or Bulk Import XML (containing a password encrypted by a 7.0.x release) into a pre-6.4.0.0 release will result in an encrypted value that cannot be decrypted by the pre-6.4.0.0 release.
- Any encrypted passwords within the Universal Controller Start-up Properties will be re-encrypted using the new algorithm when the 7.0.x Controller initializes at start-up. Once converted, that Universal
 Controller Start-up Properties will no longer be compatible with a pre-6.4.0.0 release.

Resolvable Credentials

Resolvable Credentials are meant to be used with scripts and commands specified in tasks, and resolved when the script or command is executed. They provide the script or command with access to Credentials (user name and password) without having to hard-code the Credentials in the script, command, or parameters itself.

In order to enable the use of Resolvable Credentials, the Resolvable Credentials Permitted Universal Controller system property must be set to true (default is false).

If the Resolvable Credentials Permitted property is set to false, the following restrictions on Resolvable Credentials apply:

- You cannot create a Resolvable Credential.
- You cannot convert a Standard Credential to a Resolvable Credential.
- Any attempt to launch a task with an embedded Resolvable Credential will result in a Start Failure status.

Using Resolvable Credentials in a Script

To use Resolvable Credentials with a script, embed the Resolvable Credentials in any of the following:

- Content of a Script specified in the Script field in a Linux/Unix or Windows task.
- Content of a Data Script.
- Universal Template Script (Script, Linux/Unix Script, or Windows Script field).
- Content of a Script specified in the Payload Script field in a Web Service task.

Using Resolvable Credentials in a Task

To use Resolvable Credentials with a task, embed the Resolvable Credentials in any of the following:

Task	Fields
Linux/Unix	CommandParameters
Windows	CommandParameters
Web Service	 URL Query Parameter Values (Not Name) Form Data Values (Not Name) Form Payload HTTP Headers Values (Not Name)

Embedding Resolvable Credentials

Four Controller Credentials Functions are available for embedding Resolvable Credentials:

Name	Description	Syntax
Return Key Location of a Credential	Used for embedding the Key Location in a script.	<pre>\${_credentialKeyLoc('<credential_name>')}</credential_name></pre>
Return Passphrase of a Credential	Used for embedding the Passphrase in a script.	<pre>\${_credentialPassphrase('<credential_name>')}</credential_name></pre>
Return User Name of a Credential	Used for embedding the Runtime User in a script.	<pre>\${_credentialUser('<credential_name>')}</credential_name></pre>
Return User Password of a Credential	Used for embedding the Runtime Password in a script.	<pre>\${_credentialPwd('<credential_name>')}</credential_name></pre>

Variables are supported for these Functions.

For example:

- \${_credentialKeyLoc('\${my_credential}')}
- \${_credentialPassphrase('\${my_credential}')}
- \${_credentialUser('\${my_credential}')}
- \${_credentialPwd('\${my_credential}')}

In the resolved script, these Functions are resolved to (for example):

- \$(ops_unv_cred_key_loc_08236da16c3944899aae5a874da077bb)
- \$(ops_unv_cred_passphrase_08236da16c3944899aae5a874da077bb)
- \$(ops_unv_cred_user_08236da16c3944899aae5a874da077bb)
- \$(ops_unv_cred_pwd_08236da16c3944899aae5a874da077bb)

Additionally, for a Universal Template, you can create a Field of Type = Credential, which lets you select or create Resolvable Credentials. The Controller will create a variable for the Resolvable Credential Field, which you can embed in the Universal Template script using the Credentials Functions. This also lets you change Credentials when you run a Universal Template and the Universal Template.

Note

When you embed Resolvable Credentials in a script, the password is exposed in the temporary script on the Agent while the task instance is running.

Resolvable Credentials embedded in a command or parameters field of a Linux/Unix or Windows task are not exposed on the Agent system.

By default, occurrences of Resolvable Credential passwords are scrubbed from the output, reducing (but not eliminating) the risk of passwords echoed directly to the task instance output, which can be retrieved and viewed within the Universal Controller. Please note, however, you still could echo the password to a file on the Agent server. Note

1

By default, occurrences of Resolvable Credential passwords and passphrases are scrubbed from Web Service task output, reducing (but not eliminating) the risk of passwords and passphrases return to the task instance output or output metadata, which can be retrieved and viewed within Universal Controller. Please note, however, you still could use the functions against some API that stores the password and passphrase somewhere that you have access to.

Restrictions on Embedding Resolvable Credentials

If an embedded Credential is not a Resolvable Credential, the task instance will transition into the Start Failure status with one of the following status descriptions:

- Execution with credentials "credential-name", contained within the Universal Template Script, prohibited due to credential type constraint; only Resolvable credential type permitted.
- Execution with credentials "credential-name", contained within the command field or parameters field prohibited due to credential type constraint; only Resolvable credential type permitted.
- Execution with credentials "credential-name", contained within the script "script-name", prohibited due to credential type constraint; only Resolvable credential type permitted.
- For Web Service tasks:

Execution with credentials "credential-name", contained within the "<URL Query Parameter/Form Data/Payload/Payload Script/HTTP Headers>" field, prohibited due to credential type constraint; only Resolvable credential type permitted.

If the Execution User for a task instance does not have Execute permission for an embedded Resolvable Credential, the task instance will transition to the Start Failure status with one of the following status descriptions:

- Execution with credentials "credential-name", contained within the Universal Template Script, prohibited due to security constraints.
- Execution with credentials "credential-name", contained within the command field or parameters field, prohibited due to security constraints.
- Execution with credentials "credential-name", contained within the script "script-name", prohibited due to security constraints.
- Execution with credentials "credential-name", contained within a script, prohibited due to security constraints.

• For Web Service tasks:

Execution with credentials "credential-name", contained within the "<URL Query Parameter/Form Data/Payload/Payload Script/HTTP Headers>" field, prohibited due to security constraints.

If the Resolvable Credentials Permitted Universal Controller system property is set to false, any task instance with an embedded Resolvable Credential will result in a Start Failure status with the following status description:

- Execution with resolvable credentials not permitted; Universal Controller property "Resolvable Credentials Permitted" is not enabled.
- For Web Service tasks:
 - Execution with resolvable credentials not permitted; Universal Controller property "Web Service Task Resolvable Credentials Functions Permitted" is not enabled
 - Execution with resolvable credentials not permitted; Universal Controller property "Resolvable Credentials Permitted" and "Web Service Task Resolvable Credentials Functions Permitted" are not enabled

If an embedded Resolvable Credential cannot be decrypted, the task instance will transition into the Start Failure status with the following status description:

• Unable to decrypt password for "credential-name" credentials.

Other Credentials

You can embed source and destination Credentials in a UDM script using File Transfer Task Instance built-in variables.

For File Transfer tasks, the Agent may need additional credentials for logging on to the FTP server.

Defining a Credential

Dashboards 🗵 Credentials 🗵						
✓ 5 Credentials		Custom Filter	- Unsaved 1	💌 🤝 Filter 🔯 G	o To 🥂 New 🎅	
Name *	Runtime User	Туре	Description	Updated By	Updated ^	
stonebranch-credential-01	runuser01	Standard		ops.admin	2016-05-24 14:29:09 -0400	
stonebranch-credential-02	runuser02	Standard		ops.admin	2016-05-24 14:29:09 -0400	
stonebranch-credential-03	runuser3	Standard	credential 3	ops.admin	2016-09-21 14:20:42 -0400	
stonebranch-credential-04	runuser04	Standard	standard credential for runuser04	ops.admin	2016-12-09 10:33:50 -0500	
stonebranch-credential-05	runuser05	Standard		ops.admin	2016-09-30 10:57:19 -0400	
Credential Details				E Save (🗟 Save & New 📃 New	
				G Gave 4	a care a rich [] idem	
Credential Versions						
Details						
Name :						
Type : Standard		~				
Runtime User :					E	
Runtime Password :						
Description :						
Key Location (SFTP						
only) :						
Passphrase (SFTP only):						
Enter/select Details for a ne	ew Credential, u	ising the f	ield descriptions below a	is a guide. As a	best practice, us	an alias in the Name field, as you may have several identical user name
lifferent systems all having				Ū	•	
 Required fields display 	in boldface					
 Default values for field 		lienlav au	omatically			
Deladit values for field		lispiay au	ornatically.			
o display more of the Deta	aile fiolde on the	scroon v	you can either:			
o display more of the Det		, 3016611,)				
 Use the scroll bar. 						
	ot above the De	toile				
Temporarily hide the I		dians.		- 4 - 11 -		
 Click the New button a 	above the list to	display a	pop-up version of the De	etalis.		

- 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).

Credential Details

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

Credential Details: stone	branch-credential-01					
		💾 Update	Convert	🗊 Delete	😫 Refresh	💥 Close
Credential SVer	sions					
Details						
Name :	stonebranch-credential-01 Version :		1			
Type :	Standard v					
Runtime User :	runuser01					
Runtime Password :	•••••					
Description :						
Key Location (SFTP only) :						
Passphrase (SFTP only) :						
Member of Business Services :						*
Update (🖀 Convert) 🎲 Delete 🕼 😫 Refresh 🛛 🗱 Close					

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

Credential Details Field Descriptions

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

Field Name	Description
Details	This section contains detailed information about the credential.
Name	Required. Name for this credential.
Version	System-supplied; version number of the current record, which is incremented by Universal Controller every time a user updates a record. Click on the Versions tab to view previous versions. For details, see Record Versioning.

_	
Туре	Type of Credential. Options:
	Standard (default) Resolvable
	Web Service Email
	Note
	Only Resolvable Credentials can be embedded in a Universal Template script.
Runtime User	Runtime user ID, including an LDAP- or AD-formatted user ID, under which the job will be run.
	If the user does not have a login shell, add a - character in front of the ID. The Controller will provide a shell for that user and strip the - character from the username.
	When specifying a Windows account, be aware that the user must have the following privileges based upon the Universal Agent's configuration for the UAG logon option:
	Interactive (default)
	• Not be in "Deny log on locally."
	 Be a member of "Allow log on locally." logon = Batch
	 Not be in "Deny log on as a batch job" Be a member of "Allow log on as a batch job"
	When specifying a local Windows account that may be used by an Agent running inside a Windows domain environment, be sure to use "." as a placeholder for the domain name (for example,
	". < local windows account that may be used by an Agent running inside a windows domain environment, be sure to use . as a placeholder for the domain name (for example, ". < local user>").
	This qualifies the account name and ensures that Windows will authenticate it against the local – and not the active directory – account database. If the "." placeholder is missing, the account may be interpreted as a domain account in a domain environment, and a task using that credential may fail.
	If none of your Agents execute on a Windows domain member or domain controller, the placeholder is optional.
	If a domain account must be used, you may specify the account name using the user principal name (UPN) format (that is, " <domainuser>@<domainname>") or the down-level logon name</domainname></domainuser>
	format (that is, " <domainname>\<domainuser>").</domainuser></domainname>
Runtime	
Password	Runtime user's password. Maximum is 512 characters.
	Note
	As of Universal Controller release 6.4.4.0, a credential with a password greater than 40 characters can now be used for an agent-based task instance that uses Universal Agent 6.4.2.0 or greater. If the Universal Agent release is earlier than 6.4.2.0, the agent-based task instance will continue to go Start Failure with the expected Status Description. Credentials with a password
	greater than 40 characters are supported only on Universal Agent 6.4.2.0 or higher.
Description	
	Description of this record. (Maximum = 200 characters.)

Key Location (SFTP only)	Location of the Runtime User's SSH private key in OpenSSH format; only applicable for SFTP.
Pass Phrase (SFTP only)	Passphrase for the Runtime User's SSH private key file; only applicable for SFTP.
Member of	User-defined; Allows you to select one or more Business Services that this record belongs to. (You also can Check All or Uncheck All Business Services for this record.)
Business Services	You can select up to 62 Business Services for any record type, and enter a maximum of 2048 characters for each Business Service.
	If the Business Service Visibility Restricted Universal Controller system property is set to true, depending on your assigned (or inherited) Permissions or Roles, Business Services available for selection may be restricted.
Metadata	This section contains Metadata information about this record.
UUID	Universally Unique Identifier of this record.
Updated By	Name of the user that last updated this record.
Updated	Date and time that this record was last updated.
Created By	Name of the user that created this record.
Created	Date and time that this record was created.
Buttons	This section identifies the buttons displayed above and below the Credential Details that let you perform various actions.
Save	Saves a new Credential record in the Controller database.
Save & New	Saves a new record in the Controller database and redisplays empty Details so that you can create another new record.
Save & View	Saves a new record in the Controller database and continues to display that record.
New	Displays empty (except for default values) Details for creating a new record.
Update	Saves updates to the record.
Convert	Allows you to convert the current Credential Type to a new type and define a new password for the Credential (see Converting Credential Types).
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 credential.
Tabs	This section identifies the tabs across the top of the Credential Details that provide access to additional information about the credential.

Versions Stores copies of all previous versions of the current record. See Record Versioning.

Deleting a Credential

You cannot delete a Credential if any references exist for the Credential.

References will be checked according to the Credential type, as shown in the following table:

Credential Type	Record Type
Resolvable	 Universal Task (Credentials Fields 1-4) Universal Template Field (Default Value)
Email	Email Monitor (Credentials)
Web Service	Web Service Task (Credentials)
Standard	 Windows Agent (Credentials) Linux/Unix Agent (Credentials) Application (Credentials) Database Connection (Credentials) PeopleSoft Connection (Credentials) Windows Task (Credentials) Linux/Unix Task (Credentials) z/OS Task (Credentials) Universal Command Task (Utility Credentials, UCMD Credentials) SAP Task (Credentials, SAP Credentials) PeopleSoft Task (Utility Credentials, PeopleSoft Credentials) File Transfer Task (Credentials, FTP Credentials, Source Credentials, Destination Credentials) SQL Task (Credentials) Stored Procedure Task (Credentials) File Monitor Task (Credentials, FTP Credentials) FTP File Monitor Task (Credentials, FTP Credentials) System Monitor (Credentials) Universal Task (Credentials) Universal Task (Credentials) Universal Template (Credentials)

Note

Resolvable, Email, and Web Service Credentials can be used anywhere that a Standard Credential can be specified.

Business Services

- Overview
 - Record Types for Business Services
- Creating Business Services
 - Business Service Details
 - Business Service Details Field Descriptions
- Business Service Membership Considerations for Create, Read, Update, Delete, and Execute

Overview

The Universal Controller Business Services feature allows you to organize your data into groups of related information.

You can create Business Services that represent your organization and assign individual records of different record types to each Business Service. You can then sort and filter the lists of these record types based on the Business Services, as well as generate reports.

For example, you may want to place all records of different record types related to accounting in a Business Service named Accounting.

You also can take advantage of Business Services when you set up security by assigning permissions to users and groups for records that are members of specific Business Services.

You also can promote Bundles that include records from one or more specific Business Services.

Record Types for Business Services

You can assign any record of the following record types to one or more Business Services:

- Agent
- Agent Cluster
- Application
- Calendar
- Credential
- Database Connection
- Email Connection
- Email Template
- PeopleSoft Connection
- SAP Connection
- Script
- SNMP Manager
- Task
- Task Instance
- Trigger
- Variable
- Virtual Resource

Creating Business Services

_	on pane, select Security > Busir Details for a new Business Servio		ness Services list displays.				
Business Services							
✓ 5 Business Services	Custom Filter None	👻 🤝 Filter	🔯 Go To 🧮 New ಿ				
Name 🔷	Description	Updated By	Updated				
stonebranchbusinessservice 01		stonebranch-user-01	2014-06-13 15:19:37 -0400				
stonebranchbusinessservice 02		stonebranch-user-02	2014-06-13 15:19:47 -0400				
stonebranchbusinessservice 03		stonebranch-user-03	2014-06-13 15:19:51 -0400				
stonebranchbusinessservice 04		stonebranch-user-04 stonebranch-user-05	2014-06-13 15:19:56 -0400 2014-06-13 15:20:00 -0400				
Y Business Service Details							
Business Service Versions							
Details							
Name :							
Description :							
📰 Save 🧟 Save & New	New						
Enter/select Details for a new Bu	isiness Service, using the field de	escriptions below as a gu	ide.				
Default values for fields, if available, display automatically.							
To display more of the Details fields on the screen, you can either:							
 Use the scroll bar. Temporarily hide the list ab Click the New button above 	ove the Details. the list to display a pop-up version	on of the Details					

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).

Business Service Details

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

usiness Service Details	stonebranchbusinessservice 01					>
			Update	🗊 Delete 🛭 😫	Refresh	💢 Close
Business Service	Versions					
Details						
Name :	stonebranchbusinessservice 01	Version : 1				
Description :						
📳 Update	🗊 Delete 🛛 😰 Refresh 🛛 💥 Close					

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

Business Service Details Field Descriptions

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

Field Name	Description
Details	This section contains detailed information about the Business Service.
Name	Name used within the Controller to identify this Business Service. It can contain a maximum of 40 alphanumerics.
Version	System-supplied; version number of the current record, which is incremented by the Controller every time a user updates a record. Click the Versions tab to view previous versions. For details, see Record Versioning.
Description	User-defined: description of this record.
Metadata	This section contains Metadata information about this record.
UUID	Universally Unique Identifier of this record.
Updated By	Name of the user that last updated this record.
Updated	Date and time that this record was last updated.
Created By	Name of the user that created this record.
Created	Date and time that this record was created.
Buttons	This section identifies the buttons displayed above and below the Task Details that let you perform various actions.
Save	Saves a new task record in the Controller database.

Save & New	Saves a new record in the Controller database and redisplays empty Details so that you can create another new record.
Save & View	Saves a record in the Controller database and continues to display that record.
New	Displays empty (except for default values) Details for creating a new record.
Update	Saves updates to the record.
Delete	Deletes the current record. Note You cannot delete a Business Service if it has been assigned to one or more records.
Refresh	Refreshes any dynamic data displayed in the Details.
Close	For pop-up view only; closes the pop-up view of this task.
Tabs	This section identifies the tabs across the top of the Task Details that provide access to additional information about the task.
Versions	Stores copies of all previous versions of the current record. See Record Versioning.
1	

Business Service Membership Considerations for Create, Read, Update, Delete, and Execute

When creating or updating a record, use the Member of Business Services field to select one or more Business Services for that record. This, in effect, assigns the record to that Business Service.

You cannot perform an operation (create, read, update, or delete) or issue a command (such as copy) on a record that is a member of a Business Service if you do not have a Permission defined for that record type that includes that operation/command and Business Service membership.

Create

When creating a record that is a member of one or more Business Services, the user must have Create permission that applies for each Business Service that the record is becoming a member of; otherwise, the operation will be prohibited.

Read

When reading/viewing a record (for example, a list or record Details), the user needs only Read permission for one of the Business Services that the record is a member of.

Note

Depending on the value of the Strict Business Service Membership Read Constraints system property, users may be granted implicit Read permission for specific record types. Refer to the property for more details.

Update

When updating a record, the user must have Update permission for both the original record and the updated record.

As long as an update is not changing the Business Service memberships of a record, the user needs only Update permission for one of the Business Services that the record is a member of.

If the update is adding or removing Business Service membership, further security constraints apply:

- For any added Business Service, the user must have Update permission for the modified record that applies explicitly for the Business Service being added.
- For any removed Business Service, the user must have Update permission for the original record that applies explicitly for the Business Service being removed.

Delete

When deleting a record that is a member of one or more Business Services, the user must have Delete permission that applies for each Business Service the record is a member of; otherwise, the operation will be prohibited.

Execute

At task instance run time, the task instance Execution User requires Execute permission, or Read permission if Execute permission is not applicable, for the following record type dependencies.

Tasks running on an Agent	Execution User requires Execute permission for that Agent.
Tasks requiring a Credential	Execution User requires Execute permission for that Credential. (References to Credentials can exist for both non agent-based and agent-based task types. Furthermore, agents can specify default Credentials, even if the Credentials are not directly defined on the task.)
Tasks running a Script	Execution User requires Execute permission for that Script.
Tasks needing to read a Global Variable	Execution User requires Read permission for that Global Variable.
Tasks requiring a Virtual Resource	Execution User requires Execute permission for that Virtual Resource.

Audits

- Overview
- Displaying Audits
 - Audit Details Field Descriptions

Overview

Audits are detailed records of all user interactions with the Controller, including before and after information related to any change and a description of the difference.

Audits are created when the user performs any of the following actions:

- Logging actions: log in, log out, or login failure.
- Creates, updates, or deletes a record.
- Issues an action or command (for example, Launch Task or Trigger Now).
- Imports or exports records on a list.

Displaying Audits

Step 1 From the Administration navigation pane, select Security > Audits.

You can change the default time constraint for the display of audits on the list via the Audit Time Constraint user preference.

Audt Type ^ Source Status Description Oreated By Created Commonian Oreated By Created Commonian Create User Interface Success Create: Time TriggerBean 51304 SET-SecondSundayO MthHole, sys_Lt 10659e47b47e422bedacb2. Iawver 2018-03-21 17:11:48-0400 Create User Interface Success Create: Time TriggerBean 51304 SET-SecondSundayO MthHole, sys_Lt 2056047d. Iawver 2018-03-21 17:14:58-0400 Create User Interface Success Create: Time TriggerBean 51304 SET-SecondSundayO MthHole, sys_Lt 2056047d. Iawver 2018-03-21 17:14:58-0400 Delete User Interface Success Create: Time TriggerBean 51304 SET-SecondSundayO MthHole, sys_Lt 2050002bec. Iswaver 2018-03-21 17:14:58-0400 Delete User Interface Success Delete: DatabaseConnectonObean Copy of stonebranch-databaseconnecton-03, sys_Lt 2052018 ops admin 2018-03-21 16:05:04-0400 Delete User Interface Success Delete: DatabaseConnecton-04, sys_Lt 2056218 ops admin 2018-03-20 16:05:04-0400 Command User Interface Success Executing Commad. COPY DATABASE CONNECTON on stonebranch-databaseconnecton-04, sys_Lt 20560404	Create User Interface Success Create: TimeTriggerBean 51304 SET-SecondSundayOMthHaO, sys_id: 16659e47b47e4222bdacbb2 Iswver 2018.03.21 17:11.480400 Create User Interface Success Create: TimeTriggerBean 51304 SET-SecondSundayOMthHaOneBDays-No, sys_id: 16559e47b Iswver 2018.03.21 17:11.47.0400 Create User Interface Success Create: TimeTriggerBean 51304 SET-SecondSundayOMthHaSoneBDays-No, sys_id: 4554daca11b4a Iswver 2018.03.21 17:11.47.0400 Create User Interface Success Create: TimeTriggerBean 51304 SET-SecondSundayOMthHaSoneBDays-No, sys_id: 4554daca11b4a Iswver 2018.03.21 17:11.47.0400 Create User Interface Success Create: TimeTriggerBean 51304 SET-SecondSundayOMthHaSoneBDays-No, sys_id: 4554daca11b4a Iswver 2018.03.21 17:11.47.0400 Delete User Interface Success Delete: DatabaseConnectionBean Copy of stonebranch-databaseconnection-05, sys_id: 49060262 ops.admin 2018.03.21 16.05 04.40400 Delete User Interface Success Delete: DatabaseConnectionBean Copy of stonebranch-databaseconnection-03, sys_id: 21060262 ops.admin 2018.03.21 16.05 04.40400 Command User Interface Success Executing Command: COPY DATABASE CONNECTION on stonebranch-databaseconnection-03 ops.admin 2018.03.21 16.05 04.40400 Command User Interface Success Executing Command: COPY DATABASE CONNECTION on stonebranch-databaseconnection-03 ops.admin 2018.03.21 16.05 44.90.4000 Command User Interface Success Executing Command: COPY DATABASE CONNECTION on stonebranch-d		27 Audits			Elast 48 hours 👻 Custom Filter None		🖌 🦁 Filter 🛛 🍣	
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Audit Details: Update				- x	
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Audit Cł	hild Audits				
- Details					
Audit Type	Update	Table Name :	ops_credentials		
Source	User Interface	Table Key :	444e0cf355894a179b06b932c38f1238		
Created	2016-12-09 10:33:50 -0500 T	able Record Name :	stonebranch-credential-04		
Created By	ops.admin				
Node Id	qa-cntlr-mysql.stone.branch:8080-qa_cntlr_mysql	Parent Audit :			
Node Mode	Active				
Status	Success				(
Description	Update: CredentialsBean stonebranch-credential-04, sys_id: 444e0cf	355894a179b06b93	32c38f1238		
Before	CredentialsBean [(credentials=stonebranch-credential-04) (descriptic (runtime_pass_phrase=null) (runtime_password=*****) (runtime_user= -0400) (sys_id=44ect355894a179b06b932c3811238) (sys_updated (version=1)]	runuser04} {sys_cre	eated_by=ops.admin} {sys_created_on=2016-05-24 14:29:0		
After	CredentialsBean [{credentials=stonebranch-credential-04} {description=standard credential for runuser04} {opswise_groups=nul} {runtime_key_location=nul} {runtime_pass_phrase=null} {runtime_password=""""} {runtime_user=runuser04} {opswise_groups=nul} {sys_created_on=2016-05-24 14 29:09 -0400} {sys_id=444e0cr355894a179b06b932c38f1238} {sys_updated_by=ops admin} {sys_updated_on=2016-12-09 10:33:50 -0500} {type=Standard} {version=2}]				
Difference	Added description: standard credential for runuser04] [Changed version: 1 -> 2]				
Additiona Information					

Audit Details Field Descriptions

The following table describes the fields and tabs that display in the Audit Details.

Field Name	Description
Details	This section contains detailed information about the audit.

Audit Type	Type of audit for which this Audit record was created.
	Options:
	• CLI
	Create Command
	Delete Delete Override File
	Delete Version
	Email Export
	Import Restore Version
	 Server Operation Update
	User Login z/OS Auto-Restart
Table Name	Name of the table for which the user interaction was performed.
Source	Location of the user interaction.
	Options:
	Agent Message
	Command Line Email Notification
	Scheduled Set Variable Action
	Task Instance User Interface
	Web Service
Table Key	Encrypted key to the table for which the user interaction was performed.
Created	Date when this audit was created.
Table Record Name	Name of the table record for this user interaction was performed.
Created By	User that created this audit.
Node ID	URL of the cluster node on which this Audit was created.
Parent Audit	Parent audit for which this audit was created automatically.
Node Mode	Mode of the cluster node on which this Audit was created.
Status	Status of the audit.
Description	Description of the user interaction for which this audit was created.
Before	Image of data before the user interaction.
After	Image of data after the user interaction.
Difference	Difference in the data as a result of the user interaction

Additional Information	Any additional information captured for this user interaction.
Metadata	This section contains Metadata information about this record.
UUID	Universally Unique Identifier of this record.
Updated By	Name of the user that last updated this record.
Updated	Date and time that this record was last updated.
Created By	Name of the user that created this record.
Created	Date and time that this record was created.
Buttons	This section identifies the buttons displayed above and below the Audit Details that let you perform various actions.
Refresh	Refreshes any dynamic data displayed in the Audit Details.
Close	Closes the Audit Details.
Tabs	This section identifies the tabs across the top of the Audit Details that provide access to additional information about the audit.
Child Audits	List of any child audits for this audit.