stonebranch

Universal Controller 6.4.x

Resources

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Resources

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The information on these pages also is located in the Universal Controller 6.4.x Resources.pdf.

Resources Overview

Universal Controller resources are records that both define your Universal Automation Center system and that you set up to help facilitate operations:

Agents	 Universal Agents, running programs on one or more remote machines, connected to the Controller via Universal Message Service (OMS): Linux/Unix Windows z/OS
Agent Clusters	Groups of Agents from which the Controller uses pre-defined parameters to select the most appropriate agent for a task.
OMS Servers	Network communication provider between Universal Controller 6.4.x and Universal Agent.
Cluster Nodes	Controller instances.
Virtual Resources	Allow you to create throttling schemes for tasks.
Scripts	Allow you to execute scripts stored in the Controller database.
Email Templates	Allow you to construct information that can be copied to create Email tasks.
Email Connections	Provide email server information required for the Controller to send an email.
Database Connections	Provide database server information required for running SQL tasks and Stored Procedure tasks.
SAP Connections	Provide SAP server information required for running SAP tasks.
PeopleSoft Connections	Provide PeopleSoft server information required for running PeopleSoft tasks.
SNMP Managers	Allow you to generate SNMP notifications.
Application Resources	Define the names of applications being monitored.

Agents

- Agents
- Displaying Agent Details
- Starting and Stopping Agents
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Agents

Agent resources refer to Universal Agents, running programs on one or more remote machines, connected to the Controller via Universal Message Service (OMS).

OMS must be running in order for you to run tasks on an Agent.

There are three types of Agents:

- Linux/Unix Agent
- Windows Agent
- z/OS Agent

Displaying Agent Details

When you start an Agent for the first time, the Controller automatically creates a database record for that Agent. You can view these records for details and status information.

(You also can view status information about Agents from the Command Line Interface (CLI).)

Agent Name Most Name Agent Id Version Last Heartbeat Current Task Count Suspended Status Status Status ax61 stone branch - ADk61 ax61 stone branch Ax61 stone branch 0 016-04-28 09:33.50-0400 Active centerpoint stone branch - centerpoint centerpoint stone branch 0 2016-04-28 09:33.50-0400 Active db2 stone branch - 0ADB2 db2 stone branch QABB2 62.00 2016-04-28 09:33.60-0400 Active db2 stone branch - 0ADB3 db2 stone branch QABB3 62.00 2016-04-28 09:33.61-0400 Active db5 stone branch - 0ADB3 db5 stone branch QABB3 62.00 2016-04-28 09:33.61-0400 Active db5 stone branch - UXBH4X6 Mb261446.54 dtone branch QXB144 52.0.11 2016-04-28 09:33.14-0400 Active b5 stone branch - LXBH4X6 Mb261446.54 stone branch - LXBH4X64 K20147.244 stone branch - LXBH4X64 Stone branch - LXB14X64 Active Active b5 xb07x244 stone branch - LXBH4X64 K20147.244 stone branch - LXB14X64 <th>v</th> <th>9 Linux/Unix Agents</th> <th></th> <th></th> <th></th> <th>Custom Filter U</th> <th>nsaved 1</th> <th></th> <th>~</th> <th>😽 😽 Filter 🔯 <u>G</u>o To 🛛 🍣</th>	v	9 Linux/Unix Agents				Custom Filter U	nsaved 1		~	😽 😽 Filter 🔯 <u>G</u> o To 🛛 🍣
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bb2 stone branch - QADB2 db2 stone branch QADB2 6 2 0.0 2016-04-28 09:34:58-0400 Active bb3 stone branch - QADB3 db3 stone branch QADB3 6 2 0.0 2016-04-28 09:33:34-0400 Active bb5 stone branch - QADB5 db5 stone branch QADB5 6 2 0.0 2016-04-28 09:33:34-0400 Active bb5 stone branch - QADB5 db5 stone branch QADB5 6 2 0.0 0ffine bb5 stone branch - LXRHX64 in26th4-x64 stone branch LXRHX64 5 2 0.11 2016-04-28 09:33:14 -0400 Active k3ora7-x64 stone branch - LX3ORA7X64 k3ora7-x64 stone branch - LX3ORA7X64 LX3ORA7X64 5 2 0.11 2016-04-28 09:33:40 -0400 Active	12	aix61.stone.branch - AIX61	aix61.stone.branch	AIX61	6.3.0.1	2016-04-28 09:33:09 -0400			Active	
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	53	k3rh7-x64.stone.branch - LX3RH7X64	k3rh7-x64.stone.branch	LX3RH7X64	6.3.0.1	2016-04-28 09:34:41 -0400			Active	

See Agents List Field Descriptions, below, for a description of the columns on an Agent List.

Linux/Unix Agent Details:	qa-cntir-mysql.stone.branch - qa-cntir-mysql		
		F	Jpdate 🕕 Suspend Agent 🎲 Delete 📑 Refresh 💥
Linux/Unix Agent	Agent Clusters 🛛 🔍 Notifications 📄 Task Instances 📄 🔍 Tasks		
Configuration Detail	s		
Agent Name :	mysql.stone.branch	Agent Id :	mysql
Member of Business Services :			
Status :	Active	Suspended :	
Log Level :	Informational v	Retrieve Output	
Heartbeat Interval :	120	Prohibited : Credentials :	
Task Execution		Limit Amount :	5
Limit :	Limited	Limit Amount .	5
- Installation Details -			
Host Name :	stone.branch	Version :	6.4.0.0
IP Address :	192.168.31.00	Build Id :	110
Operating System :	Linux	Build Date :	20170718143049
Operating System Release :	x86_64 3.10.0-229.el7.x86_64 (#1 SMP Fri Mar 6 11:36:42 UT	CPU :	GenuineIntel Common KVM processor (2 CPU)
- System Details			
Started Date :	2017-08-07 14:04:41 -0400	PID :	31057
Last Heartbeat :	2017-08-09 14:24:45 -0400	Jobs Run :	6
CPU Load :	0	Current Task Count :	
OMS Server :	qa-cntir-mysql	Count.	
📳 Update 🕕	Suspend Agent 🕼 Delete 🚯 Refresh 💥	Close	
<i>lost fields are dis</i>	play-only; however, you can make the follo	wing changes	
	play only, nowever, you can make the follo	wing changes	•
1. Add a Me	mber of Business Services.		
Assign Cr	edentials.		

You also can choose to:

• Temporarily suspend the agent's ability to run tasks.

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

Agents List Column Descriptions

The following table describes the default display columns on an Agents list.

Column	Description
Agent Name	User-defined during installation; name used within the Controller to identify this Agent.
Host Name	User-provided during installation; IP address or domain/name of the host machine where the resource resides.
Туре	Agent's platform: Linux/Unix, Windows, or z/OS.
Agent ID	Unique ID for this Agent, created during installation.
Version	System-supplied; version number of the Agent program.
Last Heartbeat	System-supplied; date and time the most recent heartbeat was received from the resource.
Current Task Count	System supplied; current number of tasks currently being run by this Agent.
Suspended	Specification (true or false) for whether or not this Agent has been suspended from the ability to run tasks.
Status	System-supplied; status of the Agent. Active: the Agent is running. Offline: the Agent is not running.
Updated By	User that last updated this record.
Updated	Date when this record was last updated.

Agent Details Field Descriptions

Detailed descriptions of the fields in the Agent Details are provided for each type of Agent.

Starting and Stopping Agents

For instructions on starting and stopping Agents, see Starting and Stopping Agent Components.

Suspending Agents, Agent Clusters, and Agent Cluster Memberships

If an Agent or Agent Cluster reaches its Task Execution Limit, all new work queued against that Agent or Agent Cluster will transition into the Execution Wait status until the Current Task Count falls below the Limit Amount.

You also can manually suspend (and resume) Agents and Agent Clusters, as well as Agent memberships in Agent Clusters.

🔥 Note

The following roles and permissions are required to suspend/resume Agents, Agent Clusters, and Agent Cluster Memberships:

- Agent Suspend/Resume requires the ops_admin role and the appropriate Agent permissions for Agent Suspend/Resume commands.
- Agent Cluster Suspend/Resume and Agent Cluster Membership Suspend/Resume require the ops_agent_cluster_admin role.

Suspending an Agent

You can temporarily suspend the ability of an Agent to run tasks from the Agent list or the Agent Details for that Agent. Any tasks queued against a suspended Agent will transition into Execution Wait status until the Agent has been resumed.

- To suspend an Agent from the Agents list, either:
 - Right-click the Agent Name of the Agent to be suspended and, on the Action menu, click Suspend Agent.
 - Click the box to the left of the Agent Name and, from the Action on selected rows... drop-down list at the bottom of the page, click Suspend Agent.
- To suspend an Agent from the Agent Details, click the Suspend Agent button. A Resume Agent button replaces the Suspend Agent button.

Resuming an Agent

(To end the suspension, and resume the ability of an Agent to run tasks, either:

- · Click Resume Agent on the Action menu or from the Action on selected rows... drop-down list.
- Click the **Resume Agent** button.

Suspending an Agent Cluster

You can temporarily suspend the ability of a cluster of Agents to run tasks from the Agent Clusters list or an Agent Cluster Details. Any tasks queued against a suspended agent cluster will transition into Execution Wait status until the agent cluster has been resumed.

- To suspend an Agent Cluster from the Agent Clusters list, either:
 - Right-click the Cluster Name of the agent cluster to be suspended and, on the Action menu, click Suspend Agent Cluster.
 - Click the box to the left of the agent cluster. From the Action on selected rows... drop-down list at the bottom of the page, click Suspend Agent.
- To suspend an Agent Cluster from an Agent Cluster Details, click the Suspend Cluster button. A Resume Cluster button replaces the *Suspend Cluster * button.

Resuming an Agent Cluster

To end the suspension, and resume the ability of a cluster of Agents to run tasks, either:

- Click Resume Agent Cluster on the Action menu or from the Action on selected rows... drop-down list.
- Click the **Resume Cluster** button.

Suspending an Agent Cluster Membership

You can temporarily suspend the membership of an Agent in an agent cluster from an Agent Cluster Details. Suspending the membership of an Agent in an agent cluster is equivalent to removing the Agent from the agent cluster, except it is meant to be temporary. The Agent will not be available as a selection from the agent cluster when a task is queued against the agent cluster until the membership of the Agent has been resumed.

Note

If a task specifies both an Agent and an agent cluster in which that Agent is a member, and the specified Agent has been suspended from the agent cluster, the Agent still has the ability to run the task. Directly specifying an Agent overrides its suspension from an agent cluster.

To suspend the membership of an Agent from an Agent Cluster Details, click the Agents in Cluster tab and then either:

- Right-click an Agent on the list and, on the Action menu, click Suspend Cluster Membership.
- Click the box to the left of an Agent and then, from the Action on selected rows... drop-down list at the bottom of the page, click Suspend Cluster Membership.

Resuming an Agent Cluster Membership

To end the suspension, and resume the membership of an Agent in an agent cluster:

Click Resume Cluster Membership on the Action menu or from the Action on selected rows... drop-down list.

Resetting the Current Task Count

The Current Task Count field in Agent Details and Agent Cluster Details identifies the current number of tasks currently being run by, respectively, that Agent or Agent Cluster.

If there is a limit to the number of tasks that an Agent or Agent Cluster can run concurrently (as specified by the **Task Execution Limit** and **Limit Amount** fields), you can reset the current task count to 0. This can help avoid a situation where the Controller believes the Agent to be running more tasks than it actually is running, and therefore might impose the task limit on the Agent unnecessarily.

To reset the Current Task Count field, hover your cursor over the down arrow on the Agent Details or the Agent Cluster Details title bar, or right-click the title bar, and then click, respectively, **Reset Agent Task Count** or **Reset Cluster Task Count**.

Note The following roles and permissions are required to reset the current task count:

- Reset Agent Task Count requires the ops_admin role and the Update Agent permission.
- Reset Cluster Task Count requires the **ops_agent_cluster_admin** role.

Sending Notifications on Status of an Agent

You can configure an Agent to send a notification via email or SNMP if the Agent goes down (Offline) or then when it comes back up (Active).

Step 1 From the Agents & Connections navigation pane, select Agents > All Agents or Agents > <type of agent>. An Agents list displays.

Step 2	Click the icon next to the Agent Name of an Agent, or click anywhere in the Agent row, to display Details about the Agent.									
Step 3	Click the Notifications tab to display a list of any Email and SNMP notifications configured for the Agent.									
Step 4	elect the type of notification you want the Agent to send, and then click New. Notification Details for a new Notification displays (See Email Notification Details and SNMP Notification Details, below.									
Step 5	5 Complete the fields as needed (see Email Notification Details Field Descriptions and SNMP Notification Details Field Descriptions, below).									
	Note Agent built-in variables are available to pass data about the Agent into the notification. (User-defined variables, including Global variables, are not available for use in Agent email notifications).									
Step 6	Click the Save button to save the record.									

Email Notification Details

Email Notification Details	📆 Save 🗟 New	- IX Close
Email Notification	0 W	
Criteria		
Status Options :		~
- Details		
Email Template :	👻 🔚 Email Connection :	¥
Reply-To :		
To :		
Cc :		
Bcc :		
Subject :		
Body :		
Save 🦷	Save & New Close	

Email Notification Details Field Descriptions

The following table describes the fields and buttons on Email Notification Details.

Field Name	Description
Criteria	This section contains criteria for sending the notification.
Status Options	 Offline = Trigger the notification when the resource goes offline. Active = Trigger the notification when the resource comes up.
Details	This section contains assorted detailed information about the notification.

Update	Saves updates to the record.
Save & New	Saves a new record in the Controller database and redisplays empty Details so that you can create another new record.
Save	Submits the new record to the database.
Buttons	This section identifies the buttons displayed above and below the Notification Details that let you perform various actions.
Body	Text of the email message. Variables and functions supported. If both the email template and the email task contain text in the body, the text is appended.
Subject	Subject line of the email. Variables and functions supported.
BCC	Email address of the party being sent a blind (hidden) copy of the email, if any. Use commas to separate multiple recipients. Variables and functions supported.
CC	Email address of the party being sent a copy of the email, if any. Use commas to separate multiple recipients. Variables and functions supported.
То	Email address of the recipient. Use commas to separate multiple recipients. Variables and functions supported.
Reply-To	Email address of the sender. Use commas to separate multiple recipients. Variables and functions supported.
Email Connection	Required if an Email Template is not specified in the Email Template field; Name of an outgoing Email Connection (Type = Outgoing). An Email Connection specifies information about an outgoing or incoming email server. Enter the name of an existing outgoing Email Connection, select an existing outgoing Email Connection from the drop-down list, or clear the Email Connection field and click the Details icon to create a new Email Connection (Outgoing will be pre-selected in the Type field). If you specify both an Email Template and an Email Connection (in this field), the Email Connection specified in this field overrides the Email Connection specified in the Email Template field.
	existing Email template, select an Email template from the drop-down list, or click the Details icon to create a new Email template. Every Email template specifies an Email connection. If you do not specify an Email template in this field, you must specify an Email connection in the Email Connection field. If you specify both an Email template (in this field) and an Email Connection, the Email server specified in the Email Connection field overrides the Email server specified in this field. (Any information specified in an Email task overrides what is specified in an Email template.)
Email Template	Name of an Email template defined in an Email Template Details. An Email template allows you to specify standard recipients and text for outgoing emails. Enter the name of an

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 notification.

SNMP Notification Details

SNMP Notification Details					
			🔚 Save	🐚 Save & New	💢 Close
SNMP Notification					
Criteria					
Status Options :					*
Details		Notification			
Manager :	¥	Notification Severity :			~
🔚 Save 🥼 Save & New 🗱 Close					

SNMP Notification Details Field Descriptions

The following table describes the fields and buttons on SNMP Notification Details.

Field Name	Description
Criteria	This section contains criteria for sending the notification.
Status Options	 Offline = Trigger the notification when the resource goes offline. Active = Trigger the notification when the resource comes up.
Details	This section contains assorted detailed information about the notification.
SNMP Manager	The SNMP Manager that will receive the SNMP notification. Enter the name of an existing SNMP Manager, select an existing SNMP Manager from the drop-down list, or clear the SNMP Manager field and click the Details icon to create a new SNMP Manager.

Notification Severity	Severity of this notification. Options: • Normal (1) • Warning (2) • Minor (3) • Major (4) • Critical (5)					
Buttons	This section identifies the buttons displayed above and below the Notification Details that let you perform various actions.					
Save	Submits the new record to the 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 notification.					

Linux Unix Agent

- Overview
- Linux/Unix Agent Details
- Linux/Unix Agent Details Field Descriptions

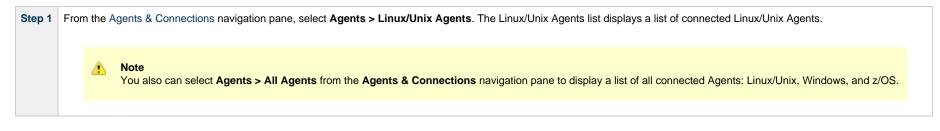
Overview

The Linux/Unix Agent resource provides information about Universal Agent for UNIX running on a Linux/Unix platform. To run a Linux/Unix task, you need a UNIX Agent installed and running on the target machine.

Linux/Unix Agent Details

Linux/Unix Agent Details provide the information necessary for the scheduler to locate and communicate with the machine where the Agent resides. Universal Controller creates this record automatically when the Agent connects with the Controller.

To view Linux/Unix Agent Details:



Linu	ux/Unix Agent Detai	s: qa-cntlr-mysq	I.stone.branch -	qa-cntir-mysq	I					
								Update	🕕 🕕 Suspend Agent 🎲 Delete 🛭 😫 I	Refresh 💥 Clos
L	inux/Unix Agent 🦷	Agent Clusters	Notifications	Task Ins	tances	Tasks				
l II c	Configuration Det	ails —								
	Agent Name	e: mysql.stone.b	ranch				Agent Id	: mysql	I	
	Member Business Services									~
		a : Active					Suspended	:		
	Log Leve	I : Informational			~		Retrieve Outpu Prohibited	t 🔲		
	Heartbeat Interva		20				Credentials	:		× 1
	Task Executio Limi	n Limited			~		Limit Amount	:	5	
	Installation Detail	3								
	Host Name	e: stone.branch					Version	6.4.0.0	0	
	IP Address	192.168.31.0)				Build Id	: 110		
	Operating System							: 20170	0718143049	
Operating System Release		x86_64 3.10.0	-229.el7.x86_64	(#1 SMP Fri M	lar 6 11:3	6:42 UT	CPU	Genui	ineIntel Common KVM processor (2 CPU)	
	System Details -									
	Started Date	2017-08-07 1	4:04:41 -0400				PID	: 31057	7	
	Last Heartbea	t: 2017-08-09 1	4:24:45 -0400				Jobs Run	: 6		
	CPU Loa	i: 0					Current Tas Count			
	OMS Serve	r: qa-cntlr-mysq	I			H				
	\Bigg Update (Suspend Age	nt 👔 Dele	te 📑 I	Refresh) 🗶 C	lose			
Ma -	t falsla and m	ad an her be		!	- ماله -	fallanda				
IVIOS	t fields are re	ead-only; ho	owever, you	u can mai	ke the	TOIIOWIN	g changes:			

- Change the Log Level (default is Informational).
 Select whether or not to apply a Task Execution Limit (and Limit Amount) on the Agent.

You also can choose to temporarily suspend the agent's ability to run tasks.

See the field descriptions, below, for details about all fields in the Linux/Unix Agent Details.

Linux/Unix Agent Details Field Descriptions

The following table describes the fields, buttons, and tabs in the Linux/Unix Agent Details.

Field Name	Description
Configuration Details	This section contains detailed information about the configuration of the Agent.

Agent Name	User-defined during installation; name used within the Controller to identify this Agent.
Agent ID	Unique ID for this Agent, created during installation.
Member of Business Services	User-defined; allows you to select one or more Business Services that this record belongs to.
Status	System-supplied; status of the Agent.
Suspended	Indication that the Agent's ability to run tasks has been suspended.
Log Level	User-modifiable; level of logging that the Agent will perform. Options: • Severe Error • Errors • Warning • Informational • Debug • Trace
Retrieve Output Prohibited	If enabled, disallows any Retrieve Output request (automatic or manual) from being performed.
Heartbeat Interval	User-modifiable; heartbeat interval (in seconds). The heartbeat is a status message sent from the Agent to the Controller. If you change the heartbeat interval, it only affects new Agents that are registered after the change. It does not affect the heartbeat interval of existing Agents.
Credentials	Credentials under which this Agent runs tasks. These credentials are overridden by any credentials provided in the task definition for any tasks being run by this Agent.
Task Execution Limit	Specification for whether a Limited or Unlimited number of task instances can be run concurrently on the Agent. (Default is Unlimited.) For purposes of imposing this task execution limit, running task instances are those in any of these statuses: Cancel Pending, Queued, Received, Running, Submitted, and Started.

Limit Amount	If Task Execution Limit = Limited; Number of tasks that can be running at the same time by the Agent.
Installation Details	This section contains detailed information about the installation of the Agent.
Host Name	User-provided during installation; IP address or domain/name of the host machine where the resource resides.
IP Address	User-provided during installation; TCP/IP address of the machine where the Agent is running.
Operating System	System-supplied; operating system on which the Agent is running.
Operating System Release	System-supplied; release information for the operating system on which the Agent is running.
Version	System-supplied; version number of the Agent program.
Build ID	System-supplied, provided by the Agent; build ID of the Agent. Internal use only.
Build Date	System-supplied, provided by the Agent; date the Agent program was last built.
CPU	System-supplied; information about the CPU on the Agent machine.
System Details	This section contains detailed information about the Agent system.
Started Date	System-supplied; date/timestamp when the Agent was last started.
Last Heartbeat	System-supplied; date and time the most recent heartbeat was received from the resource.
CPU Load	System-supplied; current CPU load on the Agent machine, expressed as a percentage. For example, 1 means 1% currently utilized.
OMS Server	Host name of the OMS Server.
PID	System-supplied, provided by the Agent; process ID of the Agent.

Jobs Run	Total number of jobs that have been run through the Controller to this Agent.
Current Task Count	If Task Execution Limit = Limited; Current number of tasks currently being run by this Agent.
	(See Resetting the Current Task Count for information on resetting the current task count.)
	(
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 Agent Details that let you perform various actions.
Update	Saves updates to the record.
Suspend Agent	Suspends the Agent's ability to run tasks.
Resume Agent	Resumes the suspended Agent's ability to run tasks.
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 task.
Tabs	This section identifies the tabs across the top of the Agent Details that provide access to additional information about the Agent.
Agent Clusters	Lists all agent clusters that this Agent belongs to.
Notifications	Lists all notifications that have been defined for this Agent.
Task Instances	System-supplied; lists all task instances that have run or are ready to run on this Agent since it last started.

Tasks	System-supplied; lists all tasks that specify this Agent in its Details, and lets you create a new task that specifies this Agent.
	System-supplied, lists all tasks that specify this Agent in its Details, and lets you create a new task that specifies this Agent.

Windows Agent

- Overview
- Windows Agent Details
- Windows Agent Details Field Descriptions

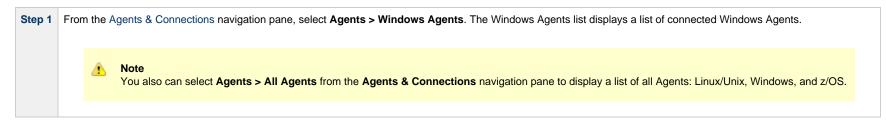
Overview

The Windows Agent resource provides information about Universal Agent for Windows running on a Windows platform. To run a Windows task, you need a Windows Agent installed and running on the target machine.

Windows Agent Details

Windows Agent Details provides the information necessary for the scheduler to locate and communicate with the machine where the Agent resides. Universal Controller creates this record automatically when the Agent connects with the Controller.

To view Windows Agent Details:



indows Agent Details: qa-w2k16-x64 - W2K16X64			>
		Jpdate 🔳 Suspend Agent 🎲 Delete 📑 Re	efresh 💥 Close
Windows Agent Clusters O Notifications O Task Instances O Tasks			
Configuration Details			
Agent Name : W2K16X64	Agent Id :	W2K [.]	
Member of QA Department Business Services :			•
Status : Offline	Suspended		
Log Level : Informational	Retrieve Output Prohibited		
Heartbeat Interval : 120	Credentials		¥ 11
Task Execution Limit: Limited v	Limit Amount :	5	
Installation Details			
Host Name : w2k16-x64	Version	6.4.0.0	
IP Address : 192.168.50.64	Build Id :	219	
Operating System : Microsoft Windows	Build Date :	20170502021348	
Operating System Release : Server 4.0, Enterprise Edition (Build 9200)	CPU :	AMD64 (2 CPU(s))	
System Details			
Started Date :	PID :		
Last Heartbeat :	Jobs Run :	0	
CPU Load: 0	Current Task Count :		
OMS Server :			
🔚 Update 🛛 📵 Suspend Agent 🖓 Delete 📄 😫 Refresh 📄 🗱 🤇	Close		
ost fields are display-only; however, you can make the follow	wing changes	:	
 Add a Member of Business Services. Assign Credentials. 			
 Assign credentials. Change the heartbeat interval. The heartbeat is a sta 	tus message	sent from the Agent to the Contro	oller.
 Change the Log Level (default is Informational). 	tuo moodugo		
5. Select whether or not to apply a Task Execution Limit	t (and Limit A	mount) on the Agent.	
u also can choose to temporarily suspend the agent's abilit	y to run tasks		

Windows Agent Details Field Descriptions

The following table describes the fields, buttons, and tabs in the Windows Agent Details.

Field Name	Description				
------------	-------------	--	--	--	--

Configuration Details	This section contains detailed information about the configuration of the Agent.
Agent Name	User-defined during installation; name used within the Controller to identify this Agent.
Agent ID	Unique ID for this Agent, created during installation.
Member of Business Services	User-defined; allows you to select one or more Business Services that this record belongs to.
Status	System-supplied; status of the Agent.
Suspended	Indication that the Agent's ability to run tasks has been suspended.
Log Level	User-modifiable; level of logging that the Agent will perform. Options: • Severe Error • Errors • Warning • Informational • Debug • Trace
Retrieve Output Prohibited	If enabled, disallows any Retrieve Output request (automatic or manual) from being performed.
Heartbeat Interval	User-modifiable; heartbeat interval (in seconds). The heartbeat is a status message sent from the Agent to the Controller. If you change the heartbeat interval, it only affects new Agents that are registered after the change. It does not affect the heartbeat interval of existing Agents.
Credentials	Credentials under which this Agent runs tasks. These credentials are overridden by any credentials provided in the task definition for any tasks being run by this Agent.
Task Execution Limit	Specification for whether a Limited or Unlimited number of task instances can be run concurrently on the Agent. (Default is Unlimited.) For purposes of imposing this task execution limit, running task instances are those in any of these statuses: Cancel Pending, Queued, Received, Running, Submitted, and Started.

Limit Amount	If Task Execution Limit = Limited; Number of tasks that can be running at the same time by the Agent.	
Installation Details	This section contains detailed information about the installation of the Agent.	
Host Name	User-provided during installation; IP address or domain/name of the host machine where the resource resides.	
IP Address	User-provided during installation; TCP/IP address of the machine where the Agent is running.	
Operating System	System-supplied; operating system on which the Agent is running.	
Operating System Release	System-supplied; release information for the operating system on which the Agent is running.	
Version	System-supplied; version number of the Agent program.	
Build ID	System-supplied, provided by the Agent; build ID of the Agent. Internal use only.	
Build Date	System-supplied, provided by the Agent; date the Agent program was last built.	
CPU	System-supplied; information about the CPU on the Agent machine.	
System Details	This section contains detailed information about the Agent system.	
Started Date	System-supplied; date/timestamp when the Agent was last started.	
Last Heartbeat	System-supplied; date and time the most recent heartbeat was received from the resource.	
CPU Load	System-supplied; current CPU load on the Agent machine, expressed as a percentage. For example, 1 means 1% currently utilized.	
OMS Server	Host name of the OMS Server.	
PID	System-supplied, provided by the Agent; process ID of the Agent.	

Jobs Run	Total number of jobs that have been run through the Controller to this Agent.			
Current Task Count	If Task Execution Limit = Limited; Current number of tasks currently being run by this Agent. (See Resetting the Current Task Count for information on resetting the current task count.)			
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 Agent Details that let you perform various actions.			
Update	Saves updates to the record.			
Suspend Agent	Suspends the Agent's ability to run tasks.			
Resume Agent	Resumes the suspended Agent's ability to run tasks.			
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 task.			
Tabs	This section identifies the tabs across the top of the Agent Details that provide access to additional information about the Agent.			
Agent Clusters	Lists all agent clusters that this Agent belongs to.			
Notifications	Lists all notifications that have been defined for this Agent.			
Task Instances	System-supplied; lists all task instances that have run or are ready to run on this Agent since it last started.			

Tasks	
	System-supplied; lists all tasks that specify this Agent in its Details, and lets you create a new task that specifies this Agent.

zOS Agent

- Overview
- z/OS Agent Details
- z/OS Agent Details Field Descriptions

Overview

The z/OS Agent resource provides information about a Universal Agent for z/OS running on a z/OS platform.

To run a z/OS task, you need a z/OS Agent installed and running on the target machine.

z/OS Agent Details

z/OS Agent Details provide the information necessary for the scheduler to locate and communicate with the machine where the Agent resides. Universal Controller creates this record automatically when the Agent connects with the Controller.

To view z/OS Agent Details:



	Close
Configuration Details Agent Name : ZOS63 Agent Id : ZOS63 Member of Business Services : Log Level : Trace Heartbeat Interval : 120 Credentials :	
Agent Name: ZOS63 Member of Business Services :	
Member of Business Services : Status : Offline Suspended : Log Level : Trace V Prohibited : Heartbeat Interval : 120 Credentials : V	~
Business Services : Status : Offline Suspended : Log Level : Trace Prohibited : Heartbeat Interval : 120 Credentials : v	~
Status: Offline Suspended: Log Level: Trace Retrieve Output Prohibited: Heartbeat Interval: 120 Credentials:	
Heartbeat Interval : 120 Credentials : V	
Task Execution Limited V Limit Amount: 5	
Installation Details	
Host Name : ZOS112 Version : 6.3.0.2	
IP Address : 192.168.30.00 Build Id : 107	
Operating System : ZOS Build Date : 20160426083222	
Operating System 011200 CPU: 2828	
Started Date : PID :	
Last Heartbeat : Jobs Run : 22	
CPU Load : 0 Current Task Count :	
OMS Server : qa-cntir-mysql	
🕎 Update 🔘 Suspend Agent 👔 Delete 🕞 Refresh 🗱 Close	

z/OS Agent Details Field Descriptions

The following table describes the fields, buttons, and tabs in the z/OS Agent Details.

Field Name	Description			
------------	-------------	--	--	--

Configuration Details	This section contains detailed information about the configuration of the Agent.					
Agent Name	User-defined during installation; name used within the Controller to identify this Agent.					
Agent ID	Unique ID for this Agent, created during installation.					
Member of Business Services	User-defined; allows you to select one or more Business Services that this record belongs to.					
Status	System-supplied; status of the Agent.					
Suspended	Indication that the Agent's ability to run tasks has been suspended.					
Log Level	User-modifiable; level of logging that the Agent will perform. Options: • Severe Error • Errors • Warning • Informational • Debug • Trace					
Retrieve Output Prohibited	If enabled, disallows any Retrieve Output request (automatic or manual) from being performed.					
Heartbeat Interval User-modifiable; heartbeat interval (in seconds). The heartbeat is a status message sent from the Agent to the Controller. If you change the heartbeat interval, it only affects new Agents that are registered after the change. It does not affect the heartbeat interval of e Credentials Credentials under which this Agent runs tasks. These credentials are overridden by any credentials provided in the task definition for any tasks						
		Task Execution Limit	Specification for whether a Limited or Unlimited number of task instances can be run concurrently on the Agent. (Default is Unlimited.) For purposes of imposing this task execution limit, running task instances are those in any of these statuses: Cancel Pending, Queued, Received, Running, Submitted, and Started.			

Limit Amount	If Task Execution Limit = Limited; Number of tasks that can be running at the same time by the Agent.			
Installation Details	This section contains detailed information about the installation of the Agent.			
Host Name	User-provided during installation; IP address or domain/name of the host machine where the resource resides.			
IP Address	User-provided during installation; TCP/IP address of the machine where the Agent is running.			
Operating System	System-supplied; operating system on which the Agent is running.			
Operating System Release	System-supplied; release information for the operating system on which the Agent is running.			
Version	System-supplied; version number of the Agent program.			
Build ID	System-supplied, provided by the Agent; build ID of the Agent. Internal use only.			
Build Date	System-supplied, provided by the Agent; date the Agent program was last built.			
CPU	System-supplied; information about the CPU on the Agent machine.			
System Details	This section contains detailed information about the Agent system.			
Started Date	System-supplied; date/timestamp when the Agent was last started.			
Last Heartbeat	System-supplied; date and time the most recent heartbeat was received from the resource.			
CPU Load	System-supplied; current CPU load on the Agent machine, expressed as a percentage. For example, 1 means 1% currently utilized.			
OMS Server	Host name of the OMS Server.			
PID	System-supplied, provided by the Agent; process ID of the Agent.			

Jobs Run	Total number of jobs that have been run through the Controller to this Agent.			
Current Task Count	If Task Execution Limit = Limited; Current number of tasks currently being run by this Agent. (See Resetting the Current Task Count for information on resetting the current task count.)			
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 Agent Details that let you perform various actions.			
Save	Saves a new task record in the Controller database.			
Update	Saves updates to the record.			
Suspend Agent Suspends the Agent's ability to run tasks.				
Resume Agent	Resumes the suspended Agent's ability to run tasks.			
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 task.			
Tabs	This section identifies the tabs across the top of the Agent Details that provide access to additional information about the Agent.			
Agent Clusters	Lists all agent clusters that this Agent belongs to.			
Notifications	Lists all notifications that have been defined for this Agent.			
Task Instances	System-supplied; lists all task instances that have run or are ready to run on this Agent since it last started.			

Tasks	
	System-supplied; lists all tasks that specify this Agent in its Details, and lets you create a new task that specifies this Agent.

Agent Clusters

- Overview
- Creating an Agent Cluster
 - Agent Cluster Details
 - Agent Cluster Details Field Descriptions
- Assigning Agents to the Cluster
- Suspending Agent Clusters and Agent Cluster Memberships

Overview

For Windows and Linux/Unix Agents only, Universal Controller allows you to create clusters (groups) of Agents.

If you specify an agent cluster in a task, the Controller selects an Agent from the cluster based on the selection method that you specified when you created the cluster. If you specify both an Agent and an agent cluster in a task, the Controller first attempts to run the task on the Agent; if the Agent is unavailable, the Controller selects an Agent cluster.

🔥 Note

The instructions and illustrations, below, for creating Windows agent clusters and Linux/Unix agent clusters, and assigning Agents to those clusters, are the same.

Creating an Agent Cluster

Step 1	1 From the Agents & Connections navigation pane, sel	ect (for examp	ole) Agent Clu	sters > Li	nux/Unix	Agent Clusters. T	he Linux/Unix Clusters List displays.
	Below the list, Agent Cluster Details for a new Agent	Cluster displa	ys.				
	Dashboards 🔝 Linux/Unix Agent Clusters 🔤						
		Custom Filter Unsaved 1 🗸 👦 Filter 🔽 Qo To 👬 New 🍣				0	
		Distribution Suspended Task Execution Limit Limit Amount Updated By Updated				_	
	stonebranch-linuxunixcluster-01 Any	No	Limited	10	ops.admin	2017-02-07 17:14:32 -0500	
	stonebranch-linuxunixcluster-02 Any	Yes	Unlimited		ops.admin	2016-05-24 14:29:09 -0400	
	stonebranch-linuxunixcluster-03 Any	No	Unlimited		ops.admin	2016-05-24 14:29:09 -0400	
	stonebranch-linuxunixcluster-04 Any	No	Unlimited		ops.admin	2016-05-24 14:29:09 -0400	
	stonebranch-linuxunixcluster-05 Any	No	Unlimited		ops.admin	2016-05-24 14:29:09 -0400	
	 Linux/Unix Agent Cluster Details Linux/Unix Agent Cluster Agents in Cluster Tasks Versions Cluster Name : Member of Business Services :	<u>v</u>			T Save	C Save & New New	
Step 2	2 Enter / select Details for a new agent cluster, using the	e field descrip	otions below as	a guide.			
	 Required fields display in boldface. Default values for fields, if available, display automatically. To display more of the Details fields on the screen, you can either: Use the scroll bar. Temporarily hide the list above the Details. Click the New button above the list to display a pop-up version of the Details. 						
Step 3	3 Click a Save button. The record is added to the datab	base, and all b	outtons and tab	s in the Aç	jent Cluste	er Details are enab	led.

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).

Agent Cluster Details

The following Agent Cluster Details is for an existing Linux/Unix agent cluster. See the field descriptions, below, for a description of all fields that may display in the Agent Cluster Details.

Linux/Unix Agent Cluster Details: stonebranch-linuxunixcluster-01			
	🔚 Update 🕕 Suspend Agent C	luster 🎲 Delete 📑 Refresi	n 💥 Close
Linux/Unix Agent Cluster Agents In Cluster Tasks Versions			
Linux/Unix Agent Cluster Agents In Cluster Tasks Versions Details Cluster Name : stonebranch-linuxunixcluster-01 Member of Business Services : Distribution : Any Suspended : Task Execution Limit : Limited Update Suspend Agent Cluster Delete Refresh			
Cluster Name : stonebranch-linuxunixcluster-01	Version :	5	
Member of Business Services :			~
Distribution : Any	✓ Last Agent Used :		
Suspended : 🔲	Current Task Count :	0	
Task Execution Limit : Limited	Limit Amount :	10	
📅 Update 🕕 Suspend Agent Cluster 🎲 Delete 🕞 Refresh	💥 Close		

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

Agent Cluster Details Field Descriptions

The following table describes the fields, buttons, and tabs in the Agent Cluster Details.

Field Name	Description
Details	This section contains detailed information about the agent cluster.
Cluster Name	Name used within the Controller to identify this agent cluster. Up to 40 alphanumerics. It is the responsibility of the user to develop a workable naming scheme for agent clusters.
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.

Member of Business Service	User-defined; allows you to select one or more Business Services that this record belongs to.
Distribution.	Method used to select an Agent.
	Options:
	 Any - Select any Agent in the cluster. Round Robin - Select the next Agent in a round robin series. Lowest CPU Utilization - Selects the Agent whose CPU utilization is currently the lowest.
Last Agent Used	System-supplied; Agent that was selected the last time a task was sent to this agent cluster.
Suspended	Indication that the ability for this cluster of Agents to run tasks has been suspended.
Current Task Count	If Task Execution Limit = Limited; Current number of tasks currently being run by the Agents in this agent cluster.
	(See Resetting the Current Task Count for information on resetting the current task count.)
Task Execution Limit	Specification for whether a Limited or Unlimited number of task instances can be run concurrently by the Agents in this agent cluster. (Default is Unlimited.) For purposes of imposing this task execution limit, running task instances are those in any of these statuses: Cancel Pending, Queued, Received, Running, Submitted, and Started.
Limit Amount	If Task Execution Limit = Limited; Number of tasks that can be running at the same time by the Agents in this agent cluster.
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 Agent Cluster Details that let you perform various actions.
Save	Saves a new task record in the Controller database.
Save & New	Saves a new Agent Cluster record in the Controller database and redisplays empty Details so that you can create another Agent Cluster.

Save & View	Saves a new Agent Cluster 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.					
Suspend Agent Cluster	Suspends the ability for this cluster of Agents to run tasks.					
Resume Agent Cluster	Resumes the ability for this suspended cluster of Agents to run tasks.					
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 task.					
Tabs	This section identifies the tabs across the top of the Agent Cluster Details that provide access to additional information about the agent cluster.					
Agents in Cluster	List of Agents assigned to this cluster.					
Tasks	Lists all tasks, according to task type, that currently are being dispatched to this agent cluster.					
	You also can create tasks for the identified task types that will have this agent cluster pre-selected in the Agent Cluster field of its Task Details.					
Versions	Stores copies of all previous versions of the current record. See Record Versioning.					
	 Note Updates to the following fields, whether system-supplied or user-supplied (as appropriate), does not affect the version of the Agent Cluster Details: Current Task Count Execution Limit Last Agent Used Limit Amount Suspended Additionally, if you restore Agent Cluster Details to a previous version, values for those fields are preserved; they do not revert to their values from the selected previous version. 					

Assigning Agents to the Cluster

nux/Unix Agent Cluster Agents In Cluster Tasks Versions
stonebranch-Inuxunkcluster-01 Any 0 No ops admin 2014-06-13 15:23.02-0400 stonebranch-Inuxunkcluster-03 Any 0 No ops admin 2014-06-13 15:23.06-0400 stonebranch-Inuxunkcluster-03 Any 0 No ops admin 2014-06-13 15:23.19-0400 stonebranch-Inuxunkcluster-05 Any 0 No ops admin 2014-06-13 15:23.19-0400
stonebranch-Inuxunkcluster-02 Any 0 No ops.admin 2014-06-13 15:23 06 -0400 stonebranch-Inuxunkcluster-03 Any 0 No ops.admin 2014-06-13 15:23 16 -0400 stonebranch-Inuxunkcluster-05 Any 0 No ops.admin 2014-06-13 15:23 16 -0400 stonebranch-Inuxunkcluster-05 Any 0 No ops.admin 2014-06-13 15:23 19 -0400 ***********************************
stonebranch-Inuxunkxcluster-03 Any 0 No ops.admin 2014-06-13 15:23:11-0400 stonebranch-Inuxunkxcluster-04 Any 0 No ops.admin 2014-06-13 15:23:16-0400 stonebranch-Inuxunkxcluster-05 Any 0 No ops.admin 2014-06-13 15:23:19-0400 * LinuxUnix Agent Cluster Details * LinuxUnix Agent Cluster Details F Save & New New Details Cluster Name : Version: 1 Distribution: Any w Last Agent Used: F
stonebranch-linuxunixcluster-04 Any 0 No ops.admin 2014-06-13 1523:16-0400 stonebranch-linuxunixcluster-05 Any 0 No ops.admin 2014-06-13 1523:19-0400 LinuxUnix Agent Cluster Details LinuxUnix Agent Cluster •
Stonebranch-linuxunkxcluster-05 Any 0 No 2014-06-13 15:23:19-0400 * Linux/Unix Agent Cluster Details * * Linux/Unix Agent Cluster © etails * <
Linux/Unix Agent Cluster Agents In Cluster Tasks Versions Details Cluster Name: Uersion: Last Agent Used: Last Agent Used:
Details Cluster Name : Version : 1 Distribution : Any Last Agent Used :
Cluster Name : Version : 1 Distribution : Any Last Agent Used :
Distribution : Any Last Agent Used :
Suspended.
Task Execution Limited v Limit Amount : 5
Limit:

Step 3	Click the Edit button. The Edit Members dialog displays:	
	Edit Members	
	Collection	Linux/Unix Agents List
	9	stonebranch-linuxunixcluster-01
	Agent Name A	Agent Name A
	stonebranch-linuxunixagent-04	stonebranch-linuxunixagent-01
	stonebranch-linuxunixagent-05	stonebranch-linuxunixagent-02
		stonebranch-linuxunixagent-03
	Save	Cancel
Step 4	The Agents in the Collection window are existing Agents of this cluster.	the current type that do not belong to this cluster. The Agents in the Linux/Unix Agents List window are Agents that belong to
Step 5	To add to or remove Agents from the Linux/Unix Agents Lis	t:
	• To add an Agent, double-click the Agent Name (or	click the Agent Name and then click the -> arrow) in the Collection window.
	 To remove an Agent from the list, double-click the 	Agent Name (or click the Agent Name and then click the <- arrow) in the Linux/Unix Agents List window.
	,	
Step 6	When you are finished, click Save.	
	- ,	

Suspending Agent Clusters and Agent Cluster Memberships

You can temporarily suspend the ability for an agent cluster to run tasks, and you can temporarily suspend the agent cluster membership of any Agent in an agent cluster.

For information on how to implement these suspensions, see Suspending Agents, Agent Clusters, and Agent Cluster Memberships.

OMS Servers

- Introduction
- Creating OMS Server Records
 - OMS Server Details
 - OMS Server Details Field Descriptions
- Starting and Stopping OMS
- Sending Notifications on Status of an OMS Server
 - Email Notification Details
 - Email Notification Details Field Descriptions
 - SNMP Notification Details
 - SNMP Notification Details Field Descriptions

Introduction

OMS (Universal Message Service) Servers are the network communication providers between Universal Controller 6.4.x and Universal Agent 6.4.x.

Creating OMS Server Records

You must create a record for each OMS Server and OMS HA cluster (two or more OMS Servers in an HA / High Availability environment) that will be used as the network communications provider between the Controller and Agents.

Do not create individual records for each member (OMS Server) of an OMS HA cluster. You must define an OMS HA cluster as a single record, with the OMS Server Address containing a comma-separated list of each OMS Server in the cluster.

Dashboards 🖾 OMS Servers 🖾							
✓ 3 OMS Servers	Custom Filter None		~	🤯 Filter 🛛	🧕 <u>G</u> o To	🗄 New	2
OMS Server Address *	Status	Session Status	Authenticate OMS Server	Updated By	Updated		-
localhost:7878	Connected	Operational	No	opswise.syster	n 2014-03-05	10:07:13 -0400	,
in2611-x64	Disconnected	None	Yes	ops.admin	2014-08-27	16:17:41 -0400)
E k32-x64	Connected	Impaired	No	opswise.syster	n 2014-08-27	16:20:05 -0400	<u> </u>
✓ OMS Server ● Agents ● Notifications OMS Server Address : Network Timeout (Seconds): 30 Authenticate OMS Server : Save Save & New New				F Save	C Save &	k New 📃 N	lew
nter / select Details for a new OMS Serve	-	criptions bel	ow as a guide.				
 Required fields display in boldface Default values for fields, if available 		ally.					
o display more of the Details fields on the	screen, you can eith	ner:					
 Use the scroll bar. Temporarily hide the list above the Click the New button above the list 		version of th	ne Details				

🔥 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).

OMS Server Details

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

OMS Server Details: localhost:7878					_ 🗆 🗙
		🗑 U	Ipdate 🎲 Dele	ete 🔄 😫 Refresh	💢 Close
OMS Server Agents Notifications					
Details OMS Server Address: Localhost:7878 Network Timeout (Seconds): 30 Authenticate OMS Server: Update Delete S; Refresh Close Close	Session Status :	Connected Operational Iocalhost/127.0.0.1:787	78		E

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

OMS Server Details Field Descriptions

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

Field Name	Description
Details	This section contains detailed information about the OMS Server.
OMS Server Address	IP address or host name of an OMS Server, or a comma-separated list of OMS Servers configured as an OMS Server cluster.
Network Timeout (Seconds)	Network socket time-out value used for TCP/IP receive and connect operations.
Authenticate OMS Server	If enabled, the Controller authenticates the OMS server digital certificate.
Status	Current status of the OMS server: Connected or Disconnected.

Session Status	Current status of the OMS server messaging sessions: heartbeat, input, and output sessions. Options: • Operational - All OMS Server messaging sessions are operational. • Impaired - Ability of OMS clients to produce and/or consume messages is impaired. • None - OMS Server is disconnected.
Last Connected Server Address	OMS Server, in a High Availability environment of multiple cluster nodes, that is connected to the Controller or was last connected 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 OMS Server Details that let you perform various actions.
Save	Saves a new record in the Controller database.
Save & New	Saves a new OMS Server record in the Controller database and redisplays empty Details so that you can create another new record.
Save & View	Saves a new OMS Server 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 record.
Tabs	This section identifies the tabs across the top of the OMS Server Details that provide access to additional information about the OMS Server.
Agents	Lists all Agents for which this OMS Server is the network communication provider between the Controller.
Notifications	Lists all notifications that have been defined for this OMS Server.

Starting and Stopping OMS

For instructions on starting and stopping OMS Servers, see Starting and Stopping Agent Components.

Sending Notifications on Status of an OMS Server

You can configure OMS Servers to send a notification via email or SNMP if that OMS Server status changes from Connected to Disconnected or Disconnected to Connected.

Step 1	From the Agents and Connections navigation pane, select System > OMS Servers. The OMS Servers list displays.
Step 2	Open the record of an OMS Server on the list.
Step 3	Click the Notifications tab to display a list of any Email and SNMP notifications configured for the OMS Server.
Step 4	Select the type of notification you want the OMS Server to send, and then click New . Notification Details for a new Notification displays (See Email Notification Details and SNMP Notification Details, below.
Step 5	Complete the fields as needed (see Email Notification Details Field Descriptions and SNMP Notification Details Field Descriptions, below).
	Note OMS built-in variables are available to pass data about the OMS Server into the notification. (User-defined variables, including Global variables, are not available for use in OMS Server email notifications.)
Step 6	Click the Save button to save the record.

Email Notification Details

ail Notification Details		
	🔚 Save 🕼 Save & New	💢 Clos
mail Notification		
Criteria		
Status Options :		*
Details		
Email Template :	✓ Imail Connection :	× 15
Reply-To :		
To :		
10.		
Cc:		
Bcc :		
Subject :		
Body :		
🔚 Save 🦷	👌 Save & New 👔 Save & View 🛛 🗱 Close	

Email Notification Details Field Descriptions

The following table describes the fields and buttons on Email Notification Details.

Field Name	Description
Criteria	This section contains criteria for sending the notification.
Status Options	 Disconnected = Trigger the notification when the OMS Server is connected. Connected = Trigger the notification when the OMS Server is connected.
	 Note If you select Disconnected, and the OMS Server status is Connected but the session status becomes Impaired, the notification will qualify and be sent. If you select Connected, and the OMS Server recovers from an Impaired session status, the notification will qualify and be sent.
Details	This section contains assorted detailed information about the notification.

Update	Saves updates to the record.
Save & New	Saves a new record in the Controller database and redisplays empty Details so that you can create another new record.
Save	Submits the new record to the database.
Buttons	This section identifies the buttons displayed above and below the Notification Details that let you perform various actions.
Body	Text of the email message. Variables and functions supported. If both the email template and the email task contain text in the body, the text is appended.
Subject	Subject line of the email. Variables and functions supported.
BCC	Email address of the party being sent a blind (hidden) copy of the email, if any. Use commas to separate multiple recipients. Variables and functions supported.
CC	Email address of the party being sent a copy of the email, if any. Use commas to separate multiple recipients. Variables and functions supported.
То	Email address of the recipient. Use commas to separate multiple recipients. Variables and functions supported.
Reply-To	Email address of the sender. Use commas to separate multiple recipients. Variables and functions supported.
Email Connection	Required if an Email Template is not specified in the Email Template field; Name of an outgoing Email Connection (Type = Outgoing). An Email Connection specifies information about an outgoing or incoming email server. Enter the name of an existing outgoing Email Connection, select an existing outgoing Email Connection from the drop-down list, or clear the Email Connection field and click the Details icon to create a new Email Connection (Outgoing will be pre-selected in the Type field). If you specify both an Email Template and an Email Connection (in this field), the Email Connection specified in this field overrides the Email Connection specified in the Email Template field.
Email Template	Name of an Email template defined in an Email Template Details. An Email template allows you to specify standard recipients and text for outgoing emails. Enter the name of an existing Email template, select an Email template from the drop-down list, or click the Details icon to create a new Email template. Every Email template specifies an Email connection. If you do not specify an Email template in this field, you must specify an Email connection in the Email Connection field. If you specify both an Email template (in this field) and an Email Connection, the Email server specified in the Email Connection field overrides the Email server specified in this field. (Any information specified in an Email task overrides what is specified in an Email template.)

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 notification.

SNMP Notification Details

SNMP Notification Details	
	🦷 Save 🕼 Save & New 💥 Close
SNMP Notification	
Criteria	
Status Options :	*
SNMP Manager: Notification Severity:	Normal
SNMP Notification Criteria Status Options : Details SNMP Manager : Image: Image:	

SNMP Notification Details Field Descriptions

The following table describes the fields and buttons on SNMP Notification Details.

Field Name	Description
Criteria	This section contains criteria for sending the notification.
Status Options	 Disconnected = Trigger the notification when the OMS Server is connected. Connected = Trigger the notification when the OMS Server is connected.
	 Note If you select Disconnected, and the OMS Server status is Connected but the session status becomes Impaired, the notification will qualify and be sent. If you select Connected, and the OMS Server recovers from an Impaired session status, the notification will qualify and be sent.
Details	This section contains assorted detailed information about the notification.

SNMP Manager	The SNMP Manager that will receive the SNMP notification. Enter the name of an existing SNMP Manager, select an existing SNMP Manager from the drop-down list, or clear the SNMP Manager field and click the Details icon to create a new SNMP Manager.
Notification Severity	Severity of this notification. Options: • Normal (1) • Warning (2) • Minor (3) • Major (4) • Critical (5)
Buttons	This section identifies the buttons displayed above and below the Notification Details that let you perform various actions.
Save	Submits the new record to the 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 notification.

Cluster Nodes

- Introduction
- Displaying Information About Cluster Nodes
 - Cluster Node Details
 - Cluster Node Details Field Descriptions
- Starting/Stopping Cluster Nodes
- Sending Notifications on Status of a Cluster Node
 - Email Notification Details
 - Email Notification Details Field Descriptions
 - SNMP Notification Details
 - SNMP Notification Details Field Descriptions

Introduction

Cluster Nodes are Universal Controller instances in a Universal Automation Center system.

Universal Automation Center contains more than one cluster node only if it is operating in a High Availability environment.

Displaying Information About Cluster Nodes

When you start a cluster node for the first time, the Controller automatically creates a database record for that cluster node. You can view these records for details and status information.

Cluster Nodes				Custom Filter None			👻 🧒 Filte	r 🔽 <u>G</u> o To 🍣	
Node Id *	Mode	Start Time	Timestamp	Uptime	Host Name	IP Address	Release Bui		-
opswise:88-opswise	Active	2014-06-19 10:47:19 -0400	2014-07-02 11:11:32 -0400	13 Days 0 Hour 24 Minutes 12 Seconds	opswise6	168.174.31.74	6.1.2.0 buik	1.200 12-18-2014_0800	

Cluster Node Details

luster Node 🛛 😐 Clu	ster Notifications		🚯 Refresh 💥 Clo
Details			
Node Id :	opswise:80-opswise	Mode :	Active
Host Name :	opswise6	Release :	6.1.2.0
IP Address :	168.174.31.74	Build Id :	build.17
Start Time :	2014-10-16 15:34:07 -0400	Build Date :	12-16-2014_0130
Timestamp :	2014-10-17 09:41:10 -0400	Uptime :	18 Hours 7 Minutes 2 Seconds
Paused :			
Defreeh	X Close		
S Refresh	🚜 Close		

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

Cluster Node Details Field Descriptions

The following table describes the fields on the Cluster Nodes Details

Field Name	Description
Details	This section contains detailed information about the cluster node.
Node ID	hostname:port-database_name of the cluster node.
Mode	 Current mode of the cluster node: Active: Cluster node processes events and messages and interfaces with the database. It is the active node for automated operations.\\ Passive: Cluster node is running but is not connected to its OMS Server. It performs the following tasks: Accepts HTTP requests for data. It can access the database, generate reports, monitor and display data. Does not process any events or messages. Takes over as Active node if it determines that the Active node is not running. Offline: Cluster node is not running. (See Passive Cluster Node Restrictions for further information on Passive cluster node capabilities.)
Host Name	User-provided during installation; IP address or domain/name of the host machine where the resource resides.
Release	System-supplied; release number for this node. Support purposes only.
IP Address	System-supplied; IP address of this node.
Build ID	System-supplied; build ID for this node. Support purposes only.
Start Time	System-supplied; date and time this node was last started.

Build Date	System-supplied; build date for this node. Support purposes only.
Timestamp	System-supplied; date and time of this node's last heartbeat.
Uptime	System-supplied; amount of time this node has been running.
Paused	Indication that the Controller has been paused.
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 Cluster Node Details that let you perform various actions.
Refresh	Refreshes any dynamic data displayed in the Details.
Tabs	This section identifies the tabs across the top of the Cluster Node Details that provide access to additional information about the cluster node.
Cluster Notifications	Lists all notifications that have been defined for this cluster node.

Starting/Stopping Cluster Nodes

For instructions on starting and stopping cluster nodes, see Starting and Stopping Universal Controller.

Sending Notifications on Status of a Cluster Node

You can configure Cluster Nodes to send a notification via email or SNMP when the resource goes Offline or becomes Active.

Step 1	From the Agents and Connections navigation pane, select System > Cluster Nodes. The Cluster Nodes list displays.
Step 2	Click the Details icon next to the Node ID of a Cluster Node, or click anywhere in the Cluster Node row, to display Details about the Cluster Node.
Step 3	Click the Cluster Notifications tab to display a list of any Email and SNMP notifications configured for the Cluster Node.
Step 4	Select the type of notification you want the Cluster Node to send, and then click New . Notification Details for a new Notification displays (see Email Notification Details and SNMP Notification Details, below).

Step 5	Complete the fields as needed (see Email Notification Details Field Descriptions and SNMP Notification Details Field Descriptions, below).				
		۸	Note Cluster Node built-in variables are available to pass data about the Cluster Node into the notification. (User-defined variables, including Global variables, are not available for use in Cluster Node email notifications).		
Step 6	Clic	k a Sa v	ve button to save the record.		

Email Notification Details

nail Notification Details	ह Save & New 🕽	Close
Email Notification		
- Criteria		
Mode :		~
– Details –		
Email Template :	Email Connection :	× 13
Reply-To :		
То :		
Cc:		
Bcc :		
Subject :		
Body :		
🛒 Save	Save & New 👔 Save & View 🗶 Close	

Email Notification Details Field Descriptions

The following table describes the fields and buttons on Email Notification Details.

Field Name	Description
Criteria	This section contains criteria for sending the notification.
Mode	 Options: Offline = Trigger the notification when the cluster node goes offline. Active = Trigger the notification when the cluster node becomes active. Passive = Trigger the notification when the cluster node becomes passive.
Details	This section contains assorted detailed information about the notification.
Email Template	Name of an Email template defined in an Email Template Details. An Email template allows you to specify standard recipients and text for outgoing emails. Enter the name of an existing Email template, select an Email template from the drop-down list, or click the Details icon to create a new Email template. Every Email template specifies an Email connection. If you do not specify an Email template in this field, you must specify an Email connection in the Email Connection field. If you specify both an Email template (in this field) and an Email Connection, the Email server specified in the Email Connection field overrides the Email server specified in this field. (Any information specified in an Email task overrides what is specified in an Email template.)
Email Connection	Required if an Email Template is not specified in the Email Template field; Name of an outgoing Email Connection (Type = Outgoing). An Email Connection specifies information about an outgoing or incoming email server. Enter the name of an existing outgoing Email Connection, select an existing outgoing Email Connection from the drop-down list, or clear the Email Connection field and click the Details icon to create a new Email Connection (Outgoing will be pre-selected in the Type field). If you specify both an Email Template and an Email Connection (in this field), the Email Connection specified in this field overrides the Email Connection specified in the Email Template field.
Reply-To	Email address of the sender. Use commas to separate multiple recipients. Variables and functions supported.
То	Email address of the recipient. Use commas to separate multiple recipients. Variables and functions supported.
СС	Email address of the party being sent a copy of the email, if any. Use commas to separate multiple recipients. Variables and functions supported.
BCC	Email address of the party being sent a blind (hidden) copy of the email, if any. Use commas to separate multiple recipients. Variables and functions supported.
Subject	Subject line of the email. Variables and functions supported.

Body	Text of the email message. Variables and functions supported. If both the email template and the email task contain text in the body, the text is appended.
Buttons	This section identifies the buttons displayed above and below the Notification Details that let you perform various actions.
Save	Submits the new record to the 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.
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 notification.

SNMP Notification Details

ſ	SNMP Notification Det	ills		
		📰 Save & New	💥 Clo	se
	SNMP Notification			
	Criteria			<u>^</u>
	Mode :		~	
	- Details			
	Details	Notification		Ξ
	Manager :	v 📰 Notification Severity : Normal	*	
	Save	🮼 Save & New 👔 Save & View 🗱 Close		+

SNMP Notification Details Field Descriptions

The following table describes the fields and buttons on SNMP Notification Details.

Field Name	Description
Criteria	This section contains criteria for sending the notification.
Mode	 Options: Offline = Trigger the notification when the cluster node goes offline. Active = Trigger the notification when the cluster node becomes active. Passive = Trigger the notification when the cluster node becomes passive.
Details	This section contains assorted detailed information about the notification.
SNMP Manager	The SNMP Manager that will receive the SNMP notification. Enter the name of an existing SNMP Manager, select an existing SNMP Manager from the drop-down list, or clear the SNMP Manager field and click the Details icon to create a new SNMP Manager.
Notification Severity	Severity of this notification. Options: Normal (1) Warning (2) Minor (3) Major (4) Critical (5)
Buttons	This section identifies the buttons displayed above and below the Notification Details that let you perform various actions.
Save	Submits the new record to the 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.
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 notification.

Virtual Resources

- Overview
- Using a Virtual Resource
 Creating a Virtual Resource
 Virtual Resource Details
 Virtual Resource Details Field Descriptions
- Assigning Tasks to a Virtual Resource
- Resetting a Renewable Virtual Resource

Overview

A virtual resource allows you to set up a throttling scheme that will manage the number of specific tasks that can run at one time.

Using a Virtual Resource

Outlined below is the basic procedure and processing flow for using a virtual resource:

Step 1	Create a virtual resource.
	There are three types of virtual resources:
	 Renewable: Resources that renew; that is, when a task has finished using them, they can be returned and made available to other tasks sharing the same resources. Boundary: Resources that are like "windows." Only those tasks defined to fit through that window (or Resource Limit) will run. For example, if you define a Boundary Resource with Resource Limit of 5, and Task A requires a window (amount) of 5, Task B requires a window (amount) of 5, and Task C requires a window (amount) of 10, both A and B will run. However, C will go into a Resource Wait state. If the Boundary Resource is updated to a Resource Limit of 10, C will run. Depletable: Resources that do not renew. Once consumed by a task, they are gone.
Step 2	Assign a resource limit to the virtual resource as appropriate for the resource type.
Step 3	Assign tasks to the virtual resource.
Step 4	Specify the number of resource units that each task will consume. For example, a task that requires a small amount of processing power might consume one unit; a task that requires a high amount of resources might consume three units. The number of units you specify for each task is relative to the maximum number that you assign to the resource.
Step 5	Save the virtual resource record.

Step 6	When a task with a virtual resource requirement launches, Universal Controller checks the virtual resource record to see if enough units are available to run the task, based on what other tasks assigned to that virtual resource are currently running.
	 If enough units are available, the task runs and the number of available units is decremented by the amount specified in the task. For example, if the resource has a maximum of ten and the task uses two, the remaining amount available on that virtual resource for use by other tasks is eight. If there are not enough units available, the task is put into Resource Wait status and is listed in the Outstanding Requests tab in the virtual resource. When the required amount of resource becomes available, the task is launched. If multiple tasks are in Resource Wait status, the virtual resource priority is used to determine which task will be first to acquire the resource when it becomes available.
Step 7	Tabs on the Virtual Resource record keep track of tasks that are currently "running" on this virtual resource and tasks that are waiting to "run" on this virtual resource.

Creating a Virtual Resource

'irtual Resources 🔟							
5 Virtual Resources			Custom Filter None			👻 🦁 Filter	🔽 <u>G</u> o To 🙅 New 🏾 🍣
Resource Name *		Resource Type	Resource Description	Resource Limit F	Resource Use		Updated
stonebranch-virtualres	ource-01	Renewable		10	0	stonebranch-user-02	2014-06-13 15:26:49 -0400
stonebranch-virtualres		Renewable		10	0	stonebranch-user-01	2014-06-13 15:26:54 -0400
stonebranch-virtualres		Renewable		10	0	stonebranch-user-02	2014-06-13 15:26:58 -0400
stonebranch-virtualres	ource-04	Renewable		10	0	stonebranch-user-01	2014-06-13 15:27:01 -0400
stonebranch-virtualres	ource-05	Renewable		10	0	stonebranch-user-02	2014-06-13 15:27:05 -0400
Virtual Resource Details						Save	🕼 Save & New 🧮 New
						C Save	All Save & New 1 New
	Tasks Curren	nuy In Use By 0 (Outstanding Requests 🛛 🖲 Versions	5			
Details							
Resource Name :				Version :	1		
Resource Type :	Renewable		✓ Re	esource Limit :	10		
Resource							
Description : Member of							
							*
Business Services :							
	0						
Business Services : Resource Used :	0 Save & New	X Close					

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).

Virtual Resource Details

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

Virtual Resource Details	stonebranch-virtualresource-01					
			📳 Update	🇊 Delete	S Refresh	💥 Close
Virtual Resource 9	Tasks Currently In Use By Outstanding Requests	Versions				
- Details						
Resource Name :	stonebranch-virtualresource-01	Version : 1				
Resource Type :	Renewable	Resource Limit : 10				
Resource Description :						
Member of Business Services :						v
Resource Used :	0					
Update	🗊 Delete 🛛 🚯 Refresh 🛛 🗱 Close					

Note This sample Virtual Resource Details shows a Resource Limit of 1. Because each task has a minimum value of 1, this virtual resource would be limited to running only one task at a time.

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

Virtual Resource Details Field Descriptions

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

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

Resource Name	Name used within the Controller to identify this resource. Up to 40 alphanumerics. It is the responsibility of the user to develop a workable naming scheme for resources.
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.
Resource Type	Type of resource. Options: • Renewable • Boundary • Depletable
Resource Limit	Maximum number of units available for this resource.
Resource Description	Description of this virtual resource.
Member of Business Services	User-defined; allows you to select one or more Business Services that this record belongs to.
Resource Used	If Resource Type = Renewable; system-supplied. Number of units currently in use, as of the time you opened the 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 Virtual Resource 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 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 record.
Tabs	This section identifies the tabs across the top of the Virtual Resource Details that provide access to additional information about the Virtual Resource.
Tasks	Lists tasks that are assigned to this virtual resource.
Currently In Use By	Lists the task instances that have acquired this virtual resource and the number of units acquired, at the time you opened this virtual resource record.
Outstanding Requests	Lists the task instances that are currently waiting to acquire this virtual resource, and the number of units required for each waiting task instance, at the time you opened this record.
Versions	Stores copies of all previous versions of the current record. See Record Versioning.

Assigning Tasks to a Virtual Resource

🔥 Note

You can also assign a task to a virtual resource from a task Details.

Step 1 Open the Virtual Resource record that you want to assign tasks to.

Step 2 Click the Tasks tab. A list of any tasks assigned to the Virtual Resource displays.

Virtual Resource Tasks	Currently In Use By Outstanding Re	quests 🧧 Versions		
Edit				æ
Task 📥		Amount	Updated By	Updated
stonebranch-linuxunixtask-01		1	stonebranch-user-02	2014-07-02 13:22:42 -0400
stonebranch-linuxunixtask-02		1	stonebranch-user-01	2014-07-02 13:22:43 -0400

1	Edit Members							1		
	Collect	tion				Tasks List				
	stone	Linux/Unix	<u> </u>			stonebranch-virtualresource-01				
	Task Name 🗖	Туре	^		Amount	Task Name 🔷	^			
	stonebranch-linuxunixtask-03	Linux/Unix			1	stonebranch-linuxunixtask-01				
	stonebranch-linuxunixtask-04 stonebranch-linuxunixtask-05	Linux/Unix Linux/Unix			1	stonebranch-linuxunixtask-02				
	sorcondiner-intoxintxidak-03			+ + + +						
			Save		Cancel					
	 The Collection window The Tasks List window 									
Tc	The Tasks List window o filter the Tasks listed in the Co	lists tasks that re ollection window ext field above th	efer to this you can one Task N a	virtua do eith ame c	al resource ner or both column. C	e. h of the following: Dnly tasks containing that sequenc	e of characte	rs will display in	the list.	
	 The Tasks List window o filter the Tasks listed in the Co Enter characters in the te Select a task type from the text of text of the text of tex of text of text of tex of tex of text of text of	lists tasks that re ollection window ext field above th he drop-down lis	efer to this you can o ne Task N a t above th	virtua do eith ame c e Typ	al resource ner or botl column. C be column	e. h of the following: Dnly tasks containing that sequenc		rs will display in	the list.	
	 The Tasks List window o filter the Tasks listed in the Co Enter characters in the te Select a task type from the text of text of the text of tex of text of text of tex of tex of text of text of	lists tasks that re ollection window ext field above th he drop-down lis esource, move th louble-click it or Ctrl-click them a	efer to this you can o the Task N t above th e task from click it onc	virtua do eith ame c e Typ m the e and	al resource ner or both column. C De column Collectice I then clici	e. h of the following: Doly tasks containing that sequence n. Don window to the Tasks List window k the -> arrow.		rs will display in r	the list.	
ο Τα	 The Tasks List window o filter the Tasks listed in the Co Enter characters in the te Select a task type from the o assign a task to the Virtual Re 1. To move a single task, d 2. To move multiple tasks, d 3. To move all tasks, click to 	lists tasks that re ollection window ext field above th he drop-down lis esource, move th louble-click it or Ctrl-click them a the >> arrow.	efer to this you can o the Task N i t above th t above the th t above the the th t above the the the the the the the the the th	virtua do eith ame c e Typ m the e and ick the	al resource ner or both column. C De column Collectic I then clicl e > arrow.	e. h of the following: Doly tasks containing that sequence n. Don window to the Tasks List window k the -> arrow.	ow:	rs will display in r	the list.	

Step 6	The default Amount for each task assigned to a Virtual Resource is 1. task row. A Task Virtual Resource Details pop-up displays	To change the Amount , click the icon next to the Task name in the Tasks tab list or double-click anywhere in the
	Task Virtual Resource Details	
		🔚 Update 🍿 Delete 🐚 Refresh 💥 Close
	Task Virtual Resource	
	Task : stonebranch-linuxunixtask-01	
	Change the Amount as desired and click Update.	
Step 7	Click Save.	

Resetting a Renewable Virtual Resource

You can reset the Resource Used amount of a Renewable virtual resource to accurately reflect the actual number of resources currently in use.

Resetting a Renewable virtual resource requires the ops_admin role.

(For Boundary and Depletable virtual resources, the Resource Used amount is always reset to 0, as it does not apply to these types of virtual resources.)

Step 1 Access the Action menu for the Virtual Resource that you want to reset.

~			Custom Filter N	one		👻 🦁 Filter	🔯 <u>G</u> o To 🙅 N
Resource Name 🔷		Resource Type	Resource Description	Resource Limit	Resource Used	Updated By	Updated
stonebranch-virtualres	ource-01	Renewable		10	0	stonebranch-user-02	2014-06-13 15:26:49
stonebranch-virtualres	0	Desemble		10	0	stonebranch-user-01	2014-06-13 15:26:54
stonebranch-virtualres	o Dpen			10	0	stonebranch-user-02	2014-06-13 15:26:58
stonebranch-virtualres	🕫 👔 View Bundle			10	0	stonebranch-user-01	2014-06-13 15:27:01
stonebranch-virtualres	Add To Bun			10	0	stonebranch-user-02	2014-06-13 15:27:05
	Promote						
	Reset Virtua	al Resource					
	Delete						
	Cab =						
	① Details						
	-						
	🕼 Refresh Sel	ection					
M. Mittal December Dataile						🔲 Lindoto 📃	Now 🤗 Delata
Virtual Resource Details						🖷 Update 📄	New 🇊 Delete 📑
		ently In Use By	Outstanding Requests	Versions		📙 Update 📄	New 🍿 Delete 📑
		ently In Use By	Outstanding Requests	Versions		👸 Update 📃	New 🍿 Delete 🕼
Virtual Resource	Tasks © Curr	ently In Use By	Outstanding Requests	Versions Version :	1	🗑 Update 📃	New 🎲 Delete 📑
Virtual Resource	Tasks © Curr	ently In Use By 🛛 🖷		Version :		ि Update 📃	New 🗊 Delete 📑
Virtual Resource	Tasks © Curr	ently in Use By 📗 🛛	Outstanding Requests		1	PUpdate 📃	New 饡 Delete 🕞
Virtual Resource	Tasks © Curr	ently in Use By 📗 🛛		Version :		TUpdate	New 🗊 Delete 📧
Virtual Resource Details Resource Name : Resource Type : Resource Description : Member of	Tasks © Curr	ently in Use By 📗 👳		Version :		Update	New 🗊 Delete 📧
Virtual Resource Details Resource Name : Resource Type : Resource Description : Member of Business Services :	Tasks Curr Renewable	ently in Use By		Version :		Update 🚍	New 🗊 Delete 📧
Virtual Resource Details Resource Name : Resource Type : Resource Description : Member of	Tasks © Curr	entty in Use By 📗 👳		Version :		Update	New 🗊 Delete 📑
Virtual Resource Details Resource Name : Resource Type : Resource Description : Member of Business Services :	Tasks Curr Renewable	ently in Use By 📗 🛛		Version :		T Update	New 🗊 Delete 🕼
Virtual Resource Details Resource Name : Resource Type : Resource Description : Member of Business Services :	Tasks Curr Renewable			Version :		Update	New 🎲 Delete 💽
Virtual Resource Details Resource Name : Resource Type : Resource Description : Member of Business Services : Resource Used :	Tasks Curr Renewable			Version :		TUpdate T	New 🗊 Delete 💽
Virtual Resource Details Resource Name : Resource Type : Resource Description : Member of Business Services : Resource Used :	Tasks Curr Renewable			Version :		Update	New 🗊 Delete 🕼

Scripts



Overview

Scripts allows you to store scripts in the Universal Controller database.

When a task that specifies a stored script is executed, the script is transmitted to the remote machine for execution.

Note There is a 1MB limit on the content size of scripts, whether the content is defined in the Script Details or a uploaded from a local file system (see Uploading a Script, below).

You can use scripts with the following task types: Windows, Linux/Unix, SAP, and File Transfer (UDM scripts for UDM File Transfer tasks).

You cannot import compiled executables into Scripts. The content of scripts must be text that can be processed by some shell, script host, or command interpreter.

You can embed Universal Controller variables in the script content. Embedded variables are resolved at trigger/run time before the script is sent to an Agent.

Controller variables can be passed as parameters, but the script still has to be written to parse the variables. However, you cannot pass variables as parameters that contain data longer than the parameter field (for example, SQL results).

For example, the following script shows how a Controller variable could be used.

```
#!/bin/bash
echo Task Name: ${ops_task_name}
echo Task Instance: ${ops_task_id}
```

Note You also can enter a script directly into a Universal Template, but you cannot select a stored script.

Types of Scripts

There are five types of scripts:

Script	For use in Windows or Linux/Unix tasks.
SAP Definition	For use in SAP tasks.
UDM Script	For use in UDM File Transfer tasks.
Web Service Payload	For use in Web Service tasks.
Data	For use in a script or task (see Data Scripts, below).

Data Scripts

Data Scripts (Script Type = Data) are meant to be used with scripts and commands specified in tasks, and resolved when the script or command is executed. Data Scripts provide the script or command with access to a path on the UAG file system where the temporary Data Script content resides.

Note

Deleting a Data script is prohibited if it is referenced by one or more Universal Tasks or Universal Template Fields (Default Value).

Changing the type for a Data script is prohibited if it is referenced by one or more Universal Tasks or Universal Template Fields (Default Value).

The Tasks tab on the Script Details is enabled for Data scripts and lists Universal Tasks that reference the script via a mapped Script field.

Using Data Scripts in a Script

To use a Data Script with a script, embed the Data Script 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).

Using Data Scripts in a Task

To use a Data Script with a task, embed the Data Script in any of the following:

- Command field in a Linux/Unix or Windows task
- Parameters field in a Linux/Unix or Windows task

Note

Although you can embed a Data Script in the Command field or Parameters field of a Linux/Unix or Windows task, only scripts with Script Type = Script can be referenced in a Linux/Unix or Windows task; that is, it is the only type of script that is available for selection in the Linux/Unix or Windows task Script field.

Embedding a Data Script

To embed a Data Script, use the following Script Function:

Name	Description	Syntax
Return Path to Data Script	Used for embedding the path to a Data Script.	<pre>\${_scriptPath('<script_name>')}</script_name></pre>

Note _scriptPath requires Agent 6.4.0.0 or later.

Upon task instance execution, the Controller will resolve \${_scriptPath('<script_name>')} and replace it with a token representing the path to the embedded Data Script in the following format: \$(ops_unv_script_path_<script-sys_id>).

For every Data Script embedded in a Data Script, the Controller will resolve \${_scriptPath('script_name')} (if Resolve UAC Variables is enabled for the Data Script), and look for additional Data Script references (and Resolvable Credentials references). This process will continue until no additional Data Script references are found.

For each Data Script reference, the Controller will send UAG the Data Script Content, file extension, and the corresponding token (\$(ops_unv_script_path_<script-sys_id>)) that would represent a reference to that Content, which would ultimately be temporarily written to the UAG file system.

UAG will replace any tokens within the Script Content, Universal Template Script, Command, or Parameters with the appropriate file path associated with the Data Script Content. UAG also will replace any tokens within each Data Script Content.

Additionally, for a Universal Template, you can create a Field of Type = Script, which lets you select or create Data Scripts. The Controller will create a variable for the Data Script Field, which you can embed in the Universal Template script using the Script Functions. This also lets you change Scripts when you run a Universal Task based on the Universal Template.

Restrictions on Embedding Data Scripts

For every embedded Script, the Script Type must be Data; otherwise, the task will transition to the Start Failure status with one of the following status descriptions:

Execution for script "script-name", contained within the Universal Template Script, prohibited due to script type constraint; only Data script type permitted.

Execution for script "script-name", contained within the command field or parameters field prohibited due to script type constraint; only Data script type permitted.

Execution for script "script-name", contained within the script "script-name", prohibited due to script type constraint; only Data script type permitted.

For every embedded Data Script, the Execution User must have Execute permission for the Data Script; otherwise, the task instance will transition to the Start Failure status with one of the following status descriptions:

Execution for script "script-name", contained within a Universal Template Script or script, prohibited due to security constraints.

Execution for script "script-name", contained within a script, command field, or parameters field, prohibited due to security constraints.

Creating a Script

Scripts 🗵							
✓ 5 Scripts				Custom Filter N	one	🗸 😴 F	filter 🔯 Go To 🚭 New
Script Name 着		Script Type	Description		Resolve UAC Variables	Updated By	Updated
stonebranch-s	cript-01	Script			No	ops.admin	2014-06-13 15:27:44 -04
stonebranch-s	cript-02	Script			No	ops.admin	2014-06-13 15:27:55 -04
stonebranch-s	cript-03	Script			No	ops.admin	2014-06-13 15:27:58 -04
stonebranch-s	cript-04	Script			No	ops.admin	2014-06-13 15:28:01 -04
stonebranch-s	cript-05	Script			No	ops.admin	2014-06-13 15:28:06 -04
✓ Script Details						📆 Save 🕼 Save	& New 📃 New 🗔 Upload
Script	Tasks No	otes 🛛 🔍 Version	15			📆 Save <table-cell> Gave</table-cell>	& New 📃 New 🚄 Upload :
			S		1	🗑 Save <table-cell> Save</table-cell>	& New 📄 New 🛃 Upload :
Script	Script Name :		S]	🗑 Save <table-cell> Gave</table-cell>	& New 📩 New 🔏 Upload :
Script	Script Name : Description :	•	S]		& New 📄 New 🛃 Upload :
Script	Script Name :	•	S	v	Resolve UAC Variab		& New 📃 New 🗔 Upload :
Script	Script Name : Description :	•	5	v	Resolve UAC Variab		& New 📄 New 🛃 Upload :
Script	Script Name : Description :	•	5	¥	Resolve UAC Variab		& New 📃 New ⊿ Upload :
Script	Script Name : Description :	•	8	v	Resolve UAC Variab		& New 📄 New 🗔 Upload :
Script	Script Name : Description : Script Type :	•	S	v	Resolve UAC Variab		& New 📃 New ⊿ Upload :
Script	Script Name : Description : Script Type :	•	S		Resolve UAC Variab		& New 📃 New ⊿ Upload :

Step 2	Enter / select Details for a new script, using the field descriptions below as a guide.
	 Required fields display in boldface. Default values for fields, if available, display automatically.
	To display more of the Details fields on the screen, you can either:
	 Use the scroll bar. Temporarily hide the list above the Details.
	• Click the New button above the list to display a pop-up version of the Details.
Step 3	Click a Save button. The script is added to the Controller database, and all buttons and tabs in the Script Details are enabled.

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).

Script Details

A

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

Script Details: stonebranch-script-01				
		📄 🧮 Update 🛛 🛃 Upload Script 🗎 Copy	🇊 Delete 🛭 😫 Refresh	X Close
Script Script N	Versions			
Details				
Script Name	stonebranch-script-01	Version :	1	
Description				
Script Type	Script	Resolve UAC Variables : 🔲		
Script Name Description Script Type Content				
Content				
Member of Business Services				~
🗒 Update 🛛 🛃 Upload Scrip	t Copy 🕼 Delete 💽 Refres	h 🔀 Close		

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

Script Details Field Descriptions

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

Field Name	Description
Details	This section contains detailed information about the Script.
Script Name	Name of the script. This name can be the same as the name of the script file. You also can specify a file extension; the default file extension for Windows is .bat. If the name has the extension .ps1, Windows will run the script as a powershell script. You may have to create the appropriate file association and security for this to work.
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	Description of this record. (Maximum = 200 characters.)
Script Type	Type of script: Options: • Script • SAP Definition • UDM Script • Web Service Payload • Data
Resolve UAC Variables	Controls whether or not the Script will be parsed in pursuit of Universal Controller variables. It allows the Controller to avoid the overhead of parsing a Script that does not contain variables. Mote Variables could be embedded with this field disabled; likewise, you could have a Script with no variables but have this field enabled. However, enabling this field for a Script that does not contain Controller variables will impose an unnecessary burden (however small) on the Controller.
Content	Content of the script or SAP definition file. You can enter content manually or upload content from the local file system by using the Upload Script button. For UDM Scripts, Source and Destination credentials are available for use. The credentials can be coded into the UDM script using the following File Transfer variables: • ops_src_cred_user • ops_dst_cred_user • ops_dst_cred_user • ops_dst_cred_pwd The variables will be resolved by UDM internally. The following example illustrates the correct way to code them:
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 Script Details that let you perform various actions.
Save	Saves a new script 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.
Upload Script	Allows you to upload a script from the local file system and place it in the Content field (see Uploading a Script, below).
Сору	Creates a copy of this script, 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 task.
Tabs	This section identifies the tabs across the top of the Script Details that provide access to additional information about the script.
Tasks	Lists of all tasks using this script.
Notes	Lists all notes associated with this record.
Versions	Stores copies of all previous versions of the current record. See Record Versioning.

Uploading a Script

To upload a script into the Content field in the Script Details:

Step 1	Click the Upload Script button. The Script File Uploader pop-up displays.
	Script File Uploader
	Select a file Browse_ No file selected.
	Select file encoding ISO-8859-1 💌
	Submit Cancel
Step 2	Click the Browse button and select a script from the local file system.
Step 3	From the Select file encoding drop-down list, select the character set of the script: ISO-8859-1, US-ASCII, UTF-8, UTF-16, UTF-16BE, or UTF-16LE.
Step 4	Click the Submit button to add the script to the Content field.

Copying Scripts

- Overview
- · Copying One or More Scripts from a Scripts List
- Copying a Script from the Script Details
- Copy Permissions

Overview

You can make copies of all Universal Controller records, including scripts, 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 scripts, Insert does not make copies of any Notes that are associated with the script.

The Copy option allows you to make a complete copy of a script, including all of its Notes.

Copying One or More Scripts from a Scripts List

Step 1 From the Automation Center navigation pane, select **Other > Scripts** to display the Scripts list.

Step 2 Locate the script(s) you want to copy (see Filtering).

Copy the script(s):
Copy One Script
1. Right-click the Script Name.
2. On the Action menu, select Copy . A Copy Script pop-up dialog displays.
Copy Script
Enter a new name for the Script and click Submit.
Script Name : Copy Of stonebranch-script-01
Member of Business Services :
Submit Cancel
3. Enter a new name for the script and, optionally, select any Business Services that you want the script assigned to.
4. Click Submit to create a copy of the script.
Copy Multiple Scripts
Copy Multiple Scripts 1. Ctrl-Click the scripts you want to copy.

Copying a Script from the Script Details

Step 1 Select a script from the Script list. The Script Details for that script displays.

Step 2	Either: Click the Copy button. Right-click the Details to display the Action menu, and then click Copy. A Copy Script pop-up dialog displays.
	Copy Script Enter a new name for the Script and click Submit. Script Name : Copy Of stonebranch-script-01 Member of Business Services : Submit Cancel
Step 3	Enter a new name for the script and, optionally, select any Business Services that you want the script assigned to.
Step 4	Click Submit to create a copy of the script.

Copy Permissions

To copy a Script, you must have both Read permission and Copy command permission for the Script you are copying, in addition to having Create permission for the copied Script.

Email Templates

- Overview
- Creating an Email Template
 Email Template Details

 - Email Template Details Field Descriptions

Overview

Email templates allow you to construct commonly-used information that can be copied to create Email tasks.

If an Email task specifies a template, Universal Controller uses the information in the template to construct and execute the Email task. Any information specified in the task overrides what is specified in the template.

Creating an Email Template

Template Name Description To Cc Subject Updated By Updated My Istonebranch-emailtemplate-01 stonebranch@stonebranch.com ops.admin 2018-04-16 11:33.38-0400 Istonebranch-emailtemplate-02 stonebranch@stonebranch.com ops.admin 2018-05-10 15:15:18-0400 Istonebranch-emailtemplate-03 stonebranch@stonebranch.com ops.admin 2018-05-10 15:15:29-0400 Istonebranch-emailtemplate-04 stonebranch@stonebranch.com ops.admin 2018-05-10 15:15:38-0400 Istonebranch-emailtemplate-05 stonebranch@stonebranch.com ops.admin 2018-05-10 15:15:15:1-0400 Itto Itto Itto Itto Itto Itto Itto Itto Itto Itto Itto Itto Itto Itto Itto Itto	Dashboards 🗵 Email Templates 🗵						
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advacation-emailempate-32 advacation-emailempate-32 advacation-emailempate-33 advacation-emailempate-33 advacation-emailempate-33 advacation-emailempate-35 advacation-em	Template Name	Description	То	Cc	Subject	Updated By	Updated A
donebranch-emaltemplate-03 storebranch@storebranch.com ops.adm. 2016-05-10 15:152-0400 storebranch-emaltemplate-05 storebranch@storebranch.com ops.adm. 2016-05-10 15:153-0400 storebranch.emaltemplate-05 storebranch@storebranch.com ops.adm. 2016-05-10 15:1531-0400 storebranch.com ops.adm. 2016-05-10 15:1531-0400 storebranch.com ops.adm. 2016-05-10 15:1531-0400 storebranch.emaltemplate-05 storebranch@storebranch.com ops.adm. 2016-05-10 15:1531-0400 storebranch.emaltemplate-05 storebranch@storebranch.com ops.adm. 2016-05-10 15:1531-0400 storebranch.emaltemplate-05 storebranch@storebranch.com ops.adm. 2016-05-10 15:1531-0400 storebranch.com ops.adm. 2016-05-10 15:1531-0400 storebranch.com ops.adm. 2016-05-10 15:1531-0400 storebranch@storebranch.com ops.adm. 2016-05-10 15:1531-0400 storebranch@storebranch@storebranch.com ops.adm. 2016-05-10 15:1531-0400 storebranch@storebranch.com ops.adm. 2016-05-10 15:1531-0400 storebranch@storebranch.com ops.adm.2016-05-10 15:1531-0400 storebranch@storebranch.com ops.adm.2016-05-10 15:1531-0400 storebranch@storebranch	stonebranch-emailtemplate-01		stonebranch@stonebran	ch.com		ops.admin	2018-04-16 11:33:38 -0400
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towebranch-emailemplate-05 stonebranch@stonebranch.com ops.adm 2018-05-10 15:15:1-0400 Email Template Details ************************************	stonebranch-emailtemplate-03		stonebranch@stonebran	ch.com		ops.admin	2018-05-10 15:15:29 -0400
Email Template Details """"""""""""""""""""""""""""""""""""	stonebranch-emailtemplate-04		stonebranch@stonebran	ch.com		ops.admin	2018-05-10 15:15:36 -0400
Email Template Details Versons Details Versons Details Versons Template Name : Description : Description : Reply-To : Cc: Reply-To : Cc: Reply-To : Cc: Versons V	stonebranch-emailtemplate-05		stonebranch@stonebran	ch.com		ops.admin	2018-05-10 15:15:51 -0400
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 Required fields display in boldface. Default values for fields, if available, display automatically. display more of the Details fields on the screen, you can either: Use the scroll bar. 	Member of Business Services : Email Connection : Reply-To : To : Cc :						
 Required fields display in boldface. Default values for fields, if available, display automatically. display more of the Details fields on the screen, you can either: Use the scroll bar. 	Member of Business Services : Email Connection : Reply-To : To : Cc :	New					
 Required fields display in boldface. Default values for fields, if available, display automatically. display more of the Details fields on the screen, you can either: Use the scroll bar. 	Member of Business Services : Email Connection : Reply-To : To : Cc :	New					
 Default values for fields, if available, display automatically. display more of the Details fields on the screen, you can either: Use the scroll bar. 	Member of Business Services : Email Connection : Reply-To : To : Cc : Save @ Save & New		ate, using the field descri	ptions below as	a guide.		
 display more of the Details fields on the screen, you can either: Use the scroll bar. 	Member of Business Services : Email Connection : Reply-To : To : Cc : Save @ Save & New		ate, using the field descri	otions below as	a guide.		
Use the scroll bar.	Member of Business Services : Email Connection : Reply-To : To : Cc: Save @ Save & New	ew Email Templa	ate, using the field descri	otions below as	a guide.		
Use the scroll bar.	Member of Business Services : Email Connection : Reply-To : To : Cc: Save Save & New hter / select Details for a r	ew Email Templa		otions below as	a guide.		
	Member of Business Services : Email Connection : Reply-To : To : Cc : Save Save & New Thter / select Details for a r Required fields dis Default values for f	ew Email Templa blay in boldface . ields, if available,	display automatically.	otions below as	a guide.		
	Member of Business Services : Email Connection : Reply-To : To : Cc : Save Save & New Thter / select Details for a r Required fields dis Default values for f	ew Email Templa blay in boldface . ields, if available,	display automatically.	otions below as	a guide.		
 Temporarily hide the list above the Details. 	Member of Business Services : Email Connection : Reply-To : To : Cc : Save Save & New nter / select Details for a r • Required fields dis • Default values for f • Default values for f	ew Email Templa blay in boldface . ields, if available,	display automatically.	otions below as	a guide.		
 Click the New button above the list to display a pop-up version of the Details. 	Member of Business Services : Email Connection : Reply-To : To : Cc : Save Save & New nter / select Details for a r Required fields disp Default values for f o display more of the Deta Use the scroll bar.	new Email Templa olay in boldface . ields, if available, iils fields on the so	display automatically. creen, you can either:	otions below as	a guide.		

🔥 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).

Email Template Details

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

Email Template Details: stonebranch-en	nailtemplate-01	_)©)×
	🕎 Update 🖺 Copy 🎲 Delete 🕼 Refresh	X Close
Email Template 🔍 Email Tasks 🔍	Versions	
Details		
Template Name :	stonebranch-emailtemplate-01 Version : 2	
Description :		
Member of Business Services :		~
Email Connection :	stonebranch-emailconnection-01	¥ .
Reply-To :		
To :	stonebranch@stonebranch.com	
Cc:		
Bcc :		
Subject :		
Body :		
Update Copy	Delete Refresh Kolose	

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

Email Template Details Field Descriptions

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

Field Name	Description
Details	This section contains detailed information about the Email Template.
Template Name	Name used within the Controller to identify this resource. Up to 40 alphanumerics. It is the responsibility of the user to develop a workable naming scheme for resources.
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	Description of this record. (Maximum = 200 characters.)
Member of Business Services	User-defined; allows you to select one or more Business Services that this record belongs to.
Email Connection	Connection used for the Email Template. Select an Email Connection from the drop-down list, or click the Details icon to create a new Email Connection or view the Details of a selected Email Connection.
Reply-To	Email address of the sender. Use commas to separate multiple recipients. Variables and functions supported.
То	Required unless CC or BCC is specified; Email address of the recipient. Use commas to separate multiple recipients. Variables and functions supported.
СС	Required unless To or BCC is specified; Email address of the party being sent a copy of the email, if any. Use commas to separate multiple recipients. Variables and functions supported.
BCC	Required unless To or CC is specified; Email address of the party being sent a blind (hidden) copy of the email, if any. Use commas to separate multiple recipients. Variables and functions supported.
Subject	Subject line of the email. Variables and functions supported.
Body	Text of the email message. Variables and functions supported. If both the email template and the email task contain text in the body, the text is appended.
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 Email Template Details that let you perform various actions.
Save	Saves a new Email Template 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 Email Template, 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 Email Template.
Tabs	This section identifies the tabs across the top of the Email Template Details that provide access to additional information about the Email Template.
Email Tasks	Displays a list of Email Tasks that specify this Email Template, and lets you create a new Email Task with its Email Template field pre-populated with this Email Template.
Versions tab	Stores copies of all previous versions of the current record. See Record Versioning.

Copying Email Templates

- Overview
- Copying One or More Email Templates from an Email Templates List
- Copying an Email Template from the Email Template Details
- Copy Permissions

Overview

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

However, you also can use the Copy action on the Email Templates Action menu or the Copy button in the Email Templates Details.

Copying One or More Email Templates from an Email Templates List

Step 1 From the Agents & Connections navigation pane, select System > Email Templates to display the Email Templates list.

Step 2 Locate the Email Template(s) you want to copy (see Filtering).

	Right-click the Email Template Nam On the Action menu, select Copy . A	ne. Copy Email Template pop-up dialog displays.
	Copy Email Template	
	Enter a new name for the Email Ter	nplate and click Submit.
	Template Name :	Copy Of stonebranch-emailtemplate-01
	Member of Business Services :	· · · · · · · · · · · · · · · · · · ·
		Submit Cancel
		nplate and, optionally, select any Business Services that you want the Email Template assigned to.
	Enter a new name for the Email Terr Click Submit to create a copy of the	
4.		

Copying an Email Template from the Email Template Details

Step 1 Select an Email Template from the Email Template list. The Email Template Details for that Email Template displays.

Step 2	Either:
	 Click the Copy button. Right-click the Details to display the Action menu, and then click Copy.
	A Copy Email Template pop-up dialog displays.
	Copy Email Template
	Enter a new name for the Email Template and click Submit.
	Template Name : Copy Of stonebranch-emailtemplate-01
	Member of Business Services :
	Submit Cancel
Step 3	Enter a new name for the Email Template and, optionally, select any Business Services that you want the Email Template assigned to.
Step 4	Click Submit to create a copy of the Email Template.

Copy Permissions

To copy an Email Template, you must have both Read permission and Copy command permission for the Email Template you are copying, in addition to having Create permission for the copied Email Template.

Email Connections

- Overview
- Creating an Email Connection
 - Email Connection Details
 - Email Connection Details Field Descriptions

Overview

Email connections provide all of the email server information necessary for Universal Controller to send emails.

Email connections are used these ways within the Controller:

- An Email Task uses the Email connection to generate emails independent of tasks.
- An Email Notification uses the Email connection to generate notifications related to tasks.
- Agents, OMS Servers, and Cluster Nodes use the Email connection to generate email notifications.
- System Operations use Email connections to generate system notifications.

Email Connections can receive Email Notifications when:

- An Agent or OMS Server goes down or comes back up.
- A Cluster Node goes Offline or becomes Active.
- An Email Notification is associated with a task.

🔥 Note

Email Notifications on Cluster Nodes cannot be exported; therefore, they cannot be imported. You must set up new Email Notifications for Cluster Nodes whenever an export / import has been run.

Creating an Email Connection

	5 Email Connections						
_			Custom Filter				🕽 <u>G</u> o To 🖄 New 🍣 📗
_	Connection Name			Туре	Description	Updated By	Updated ^
100	stonebranch-emailconnection-01			Outgoing		ops.admin	2018-04-16 11:30:29 -0400
	stonebranch-emailconnection-02 stonebranch-emailconnection-03			Outgoing Outgoing		ops.admin ops.admin	2018-05-31 16:42:49 -0400 2018-05-31 16:43:00 -0400
				Outgoing		ops.admin	2018-05-31 16:43:06 -0400
	stonebranch-emailconnection-05			Outgoing		ops.admin	2018-05-31 16:43:11 -0400
1							
✓ E	Email Connection Details				F 5	ave 🕼 Save & New 📄	New 🙀 Test Connection
En	mail Connection Email Templates	Tasks Version	IS				
	Details						
	Connection Name :						
	Description :						
	Member of Business Services :						~
		Outgoing	~	7			
	Outgoing Mail Server (SMTP) :						
	SMTP Port :						
	Enable SSL :						
	Enable STARTTLS :						
	Email Address :						

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).

Email Connection Details

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

Email Connection Details: stonebranch	h-emailconnection-01	_)[=)[×
	🦷 Update 🕞 Test Connection 🖺 Copy 🎲 Delete 🕼 Refresh 💥 🤇	Close
Email Connection Email Templates	s 🔍 Tasks 🔍 Versions	
Details		
Connection Name	e: stonebranch-emailconnection-01 Version: 1	
Description	1:	
Member of Business Services	31	~
Туре	e : Outgoing 🗸	_
Outgoing Mail Server (SMTP)): mail.server 1	
SMTP Port	t: 25	
Enable SSL	.: 🔟	
Enable STARTTLS	3:	
Email Address	s : stonebranch@stonebranch.com	
Authentication Required	d: 🔟	
Use for System Notifications	9: 🔟	
Email Connection Email Templates Details Connection Name Description Member of Business Services Type Outgoing Mail Server (SMTP) SMTP Port Enable SSL Enable STARTTLS Email Address Authentication Required Use for System Notifications Tem Update Test Connection	ction 🖺 Copy 👔 Delete 🕞 Refresh 🗱 Close	

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

Email Connection Details Field Descriptions

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

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

Connection Name	Name (maximum 40 alphanumeric characters) used within the Controller to identify this resource. It is the responsibility of the user to develop a workable naming scheme for resources.
Version	System-supplied; version number of the current record, which is incremented by the Controller very time a user updates a record. Click the Versions tab to view previous versions. For details, see Record Versioning.
Description	Description of this record. (Maximum = 200 characters.)
Member of Business Services	User-defined; allows you to select one or more Business Services that this record belongs to.
Туре	Type of Email Connection: Options:
	 Outgoing Incoming
	Default is Outgoing.
Outgoing Mail Server (SMTP)	If Type is Outgoing; Name or IP address of the outgoing email server.
SMTP Port	If Type is Outgoing; Port on the machine where the outgoing email server resides.
Incoming Mail Server (IMAP)	If Type is Incoming; Name or IP address of the incoming email server.
IMAP Port	If Type is Incoming; Port on the machine where the incoming email server resides.
Enable SSL	Enables SSL connectivity for your server.
Enable STARTTLS	Enables the use of the STARTTLS command (if supported by the server) to switch the connection to a TLS-protected connection before issuing any login commands. (An appropriate trust store must be configured so that the client will trust the server's certificate.)

· · · · · · · · · · · · · · · · · · ·		
Email Address	If Type is Outgoing; Email address of the sender.	
	Warning If the selected sender email address is invalid, or becomes invalid at any time after you create an Email Connection, all Email Notifications that specify that Email Connection will fail, but no warning will be issued. You must click the Test Connection button to test the Email Connection, which will generate an error message in the Controller Console.	
Authentication Required	If Type is Outgoing; If enabled, User Name and Password are required.	
User Name	If Authentication Required is enabled; user name that the Controller will use to connect to the server.	
Password	If Authentication Required is enabled; password that the Controller will use to connect to the server.	
	(This field is cleared if the Email Connection is copied.)	
Use for	If Type is Outgoing; Indicates whether or not this Email Connection is to be used for system notifications.	
System Notifications	(This field is set to false if the Email Connection is copied.)	
	Note Only one Email Connection can be used for system notifications. If this field is checked in an Email Connection Details, it will appear unchecked on all other Email Connection Details. If you then check this field in another Email Connection Details, it automatically will be unchecked from the Details in which it had been checked.	
Trash Folder	If Type is Incoming; Folder to use for deleted emails.	
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 Email Connection Details that let you perform various actions.	
Save	Saves a new Email Connection 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.
Test Connection	After saving the record to the database, click Test Connection to run a connection test.
Сору	Creates a copy of this Email Connection, 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 Email Connection.
Tabs	This section identifies the tabs across the top of the Email Connection Details that provide access to additional information about the Email Connection.
Email Templates	Provides a list of Email Templates that specify this Email Connection, and lets you create a new Email Template with its Email Connection field pre-populated with this Email Connection.
	This tab is enabled only if the Email Connection Type = Outgoing.
Tasks	Provides a list of Email tasks (for Outgoing Email Connections) and Email Monitor tasks (for Incoming Email Connections).
	It also lets you create a new Email task (from the Email Tasks list), or a new Email Monitor Task (from the Email Monitor Tasks list), with its Email Connection field pre-populated with this Email Connection.
Versions	Stores copies of all previous versions of the current record. See Record Versioning.

Copying Email Connections

- Overview
- Copying One or More Email Connections from an Email Connections List
- Copying an Email Connection from the Email Connection Details
- Copy Permissions

Overview

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

However, you also can use the Copy action on the Email Connections Action menu or the Copy button in the Email Connections Details.

Note

If you use the Copy action or Copy button to copy an Email Connection, the Password field is cleared and the Use for System Notifications field is set to false in the Email Connection copy.

Copying One or More Email Connections from an Email Connections List

Step 1	From the Agents & Connections navigation pane, select System > Email Connections to display the Email Connections list.
Step 2	Locate the Email Connection(s) you want to copy (see Filtering).

	py the Email Connection(s):
	 Right-click the Email Connection Name. On the Action menu, select Copy. A Copy Email Connection pop-up dialog displays.
	Copy Email Connection
	Enter a new name for the Email Connection and click Submit.
	Connection Name : Copy Of stonebranch-emailconnection-01
	Member of Business Services :
	Submit Cancel
	 Enter a new name for the Email Connection and, optionally, select any Business Services that you want the Email Connection assigned to. Click Submit to create a copy of the Email Connection.
C	ppy Multiple Email Connections
	 Ctrl-Click the Email Connections you want to copy. Right-click any of the selected Email Connections. On the Action menu, select Copy.
	4. On the Confirmation pop-up that displays, click OK. The copied Email Connections are added to the list, with Copy of added as a prefix to the Email Connection Name for

Copying an Email Connection from the Email Connection Details

Step 1 Select an Email Connection from the Email Connection list. The Email Connection Details for that Email Connection displays.

Step 2	Either:
	 Click the Copy button. Right-click the Details to display the Action menu, and then click Copy. A Copy Email Connection pop-up dialog displays.
	Copy Email Connection
	Enter a new name for the Email Connection and click Submit.
	Connection Name : Copy Of stonebranch-emailconnection-01
	Member of Business Services :
	Submit Cancel
Step 3	Enter a new name for the Email Connection and, optionally, select any Business Services that you want the Email Connection assigned to.
Step 4	Click Submit to create a copy of the Email Connection.

Copy Permissions

To copy an Email Connection, you must have both Read permission and Copy command permission for the Email Connection you are copying, in addition to having Create permission for the copied Email Connection.

Database Connections

- Overview
- Creating a Database ConnectionDatabase Connection Details
- Database Connection Details Field Descriptions

Overview

Database Connections provide all database server information required for Universal Controller to execute an SQL task or a Stored Procedure Task.

Database Connections can receive Email Notifications when:

- An Agent or OMS Server goes down or comes back up.
- A Cluster Node goes Offline or becomes Active.

Creating a Database Connection

base Connections ection Name branch-databaseconnection-01 branch-databaseconnection-02 branch-databaseconnection-03 branch-databaseconnection-04 branch-databaseconnection-05 se Connection Details	Custom Filter None Database Type Description MySQL MySQL MySQL MySQL MySQL	Credentials Updated By build1 ops.admin ops.admin ops.admin QA NIX gatest - Trusted Systems ops.admin ops.admin ops.admin	Go To New Paint Updated 2016-05-24 14:29:09 -0400 2016-05-24 14:29:09 -0400 2016-05-24 14:29:09 -0400 2016-05-24 14:29:09 -0400 2016-05-24 14:29:09 -0400 2016-05-24 14:29:09 -0400
branch-databaseconnection-01 ebranch-databaseconnection-02 ebranch-databaseconnection-03 ebranch-databaseconnection-04 ebranch-databaseconnection-05	MySQL MySQL MySQL MySQL	build1 ops.admin ops.admin ops.admin <u>QA NIX qatest - Trusted Systems</u> ops.admin	2016-05-24 14:29:09-0400 2016-05-24 14:29:09-0400 2016-05-24 14:29:09-0400 2016-05-24 14:29:09-0400
ebranch-databaseconnection-02 ebranch-databaseconnection-03 ebranch-databaseconnection-04 ebranch-databaseconnection-05	MySQL MySQL MySQL	ops.admin ops.admin <u>QA NIX qatest - Trusted Systems</u> ops.admin	2016-05-24 14:29:09 -0400 2016-05-24 14:29:09 -0400 2016-05-24 14:29:09 -0400
branch-databaseconnection-03 ebranch-databaseconnection-04 ebranch-databaseconnection-05	MySQL MySQL	ops.admin <u>QA NIX qatest - Trusted Systems</u> ops.admin	2016-05-24 14:29:09 -0400 2016-05-24 14:29:09 -0400
branch-databaseconnection-04 ebranch-databaseconnection-05	MySQL	QA NIX gatest - Trusted Systems ops.admin	2016-05-24 14:29:09 -0400
branch-databaseconnection-05			
	MySQL 11	ops.admin	2016-05-24 14:29:09 -0400
ise Connection Details			
se Connection Details			
ise Connection Details			
		🦷 Save 🕼 Save & New 📒	New S lest Connection
e Connection	d Procedure Tasks Versions		
ils			
nection Name :			
Description :			
Member of			
ness Services :			×
atabase Type : MySQL	~ Cr	redentials :	
nnection URL : jdbc:mysql:// <server>:<p< th=""><th>ort3306>/<database></database></th><th></th><th></th></p<></server>	ort3306>/ <database></database>		
Driver: com.mysql.jdbc.Driver			
aximum Rows : 100			
Save Ver Save & New	ivew lest connection		
elect Details for a new Da	tabase Connection, using the field	descriptions below as a guide.	
	-		
Default values for fields, it	f available, display automatically.		
	de la discontra di contra di 19		
ay more of the Details field	as on the screen, you can either:		
Lloo the earell her			
Use the scroll bar. Temporarily hide the list a	have the Details		
	hess Services : hatabase Type : MySQL nnection URL : jdbc:mysqt:// <server>:<p Driver : com.mysqt.jdbc.Driver aximum Rows : 100 Save Save & New helect Details for a new Da Required fields display in Default values for fields, i</p </server>	ection Name : Description : Member of hess Services : batabase Type : MySQL	Description : Member of hess Services : hatabase Type : MySQL mection URL : jdbc:mysql:// <server>:<port3306>/<database> Driver : com.mysql.jdbc.Driver aximum Rows : 100 Save :: Save & New :: New :: Test Connection select Details for a new Database Connection, using the field descriptions below as a guide. Required fields display in boldface. Default values for fields, if available, display automatically.</database></port3306></server>

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).

Database Connection Details

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

Database Connection Details: stonebra	nch-databaseconnection-01	
	📳 Update 😽 Test Connection 🖺 Copy 🍘 Delete 🕼 Refresh	💥 Close
Database Connection SQL Tasks	Stored Procedure Tasks Versions	
Details		
Connection Name :	stonebranch-databaseconnection-01 Version : 1	
Description :		
Member of Business Services :		~
Database Type :	MySQL Credentials : build1	¥
Connection URL :	jdbc:mysql:// <server>:<port3306>/<database></database></port3306></server>	
Driver :	com.mysql.jdbc.Driver	
Database Connection SQL Tasks Details Connection Name : Description : Member of Business Services : Database Type : Connection URL : Driver : Maximum Rows :	100	
Update 🐼 Test Connect	on 🗈 Copy 💣 Delete 🔄 Refresh 🗱 Close	

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

Database Connection Details Field Descriptions

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

Field Name	Description
Details	This section contains detailed information about the Database Connection.
Connection Name	Name (maximum 40 alphanumeric characters) used within the Controller to identify this resource. It is the responsibility of the user to develop a workable naming scheme for resources.

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	Description of this record. (Maximum = 200 characters.)
Member of Business Services	User-defined; allows you to select one or more Business Services that this record belongs to.
Database Type	Type of database. Options: • MySQL • MS SQL Server • Oracle • DB2 • Other Other Note When using the database type Other, you will need to source the JDBC driver from your database vendor. Simply place the JDBC driver .jar file into the \$CATALINA_HOME/webapps/opswise/WEB-INF/lib directory and restart Tomcat. Format the Connection URL and Driver fields per the database vendor's documentation.
Credentials	Credentials for this Database Connection. Click the Details icon to create a new Credentials record, or select an existing Credentials record from the drop-down list.
Connection URL	URL of the database. If you are using a MySQL database and want the ability to issue multiple SQL commands from a single task, you need to enable this by appending the following string to the end of the connection string: ?allowMultiQueries=true
	For example:
	jdbc:mysql://localhost:3306/opswise?allowMultiQueries=true

Maximum	If necessary, specifies a limit to the number of rows you want returned by the SQL statement.
Rows	
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 Database Connection Details that let you perform various actions.
Save	Saves a new Database Connection 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.
Test Connection	After saving the record to the database, click Test Connection to run a connection test.
Сору	Creates a copy of this Database Connection, 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 Database Connection.
Tabs	This section identifies the tabs across the top of the Database Connection Details that provide access to additional information about the Database Connection.
SQL Tasks	Lists all SQL tasks that are using this Database Connection.
Stored Procedure Tasks	Lists all Stored Procedure tasks that are using this Database Connection.
Versions	Stores copies of all previous versions of the current record. See Record Versioning.

Copying Database Connections

- Overview
- Copying One or More Database Connections from a Database Connections List
- Copying a Database Connection from the Database Connection Details
- Copy Permissions

Overview

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

However, you also can use the Copy action on the Database Connections Action menu or the Copy button in the Database Connections Details.

Copying One or More Database Connections from a Database Connections List

Step 1 From the Agents & Connections navigation pane, select **System > Database Connections** to display the Database Connections list.

Step 2 Locate the Database Connections(s) you want to copy (see Filtering).

010	0	
Step 3	Copy the	e Database Connection(s):
	Copy O	ne Database Connection
	1.	Right-click the Database Connection Name.
		On the Action menu, select Copy. A Copy Database Connection pop-up dialog displays.
		Copy Database Connection
		Enter a new name for the Database Connection and click Submit.
		Connection Name : Copy Of stonebranch-databaseconnection-01
		Member of Business Services :
		Submit Cancel
	3.	Enter a new name for the Database Connection and, optionally, select any Business Services that you want the Database Connection assigned to.
		Click Submit to create a copy of the Database Connection.
	Сору М	ultiple Database Connections
		Ctrl-Click the Database Connections you want to copy.
		Right-click any of the selected Database Connections. On the Action menu, select Copy .
	4.	On the Confirmation pop-up that displays, click OK . The copied Database Connections are added to the list, with Copy of added as a prefix to the Database Connection Name for each Database Connection. If a Database Connection with that Copy of name already exists, a numerical suffix is added to the Database Connection Name.

Copying a Database Connection from the Database Connection Details

Step 1 Select a Database Connection from the Database Connections list. The Database Connection Details for that Database Connection displays.

Step 2	Either:					
	Click the Copy button.					
	 Right-click the Details to display the Action menu, and then click Copy. 					
	A Copy Database Connection pop-up dialog displays.					
	Copy Database Connection					
	Enter a new name for the Database Connection and click Submit.					
	Connection Name : Copy Of stonebranch-databaseconnection-01					
	Member of Business Services :					
	Submit Cancel					
Step 3	Enter a new name for the Database Connection and, optionally, select any Business Services that you want the Database Connection assigned to.					
Step 4	Click Submit to create a copy of the Database Connection.					

Copy Permissions

To copy a Database Connection, you must have both Read permission and Copy command permission for the Database Connection you are copying, in addition to having Create permission for the copied Database Connection.

SAP Connections

- Overview
- Creating an SAP Connection
 SAP Connection Details

 - SAP Connection Details Field Descriptions

Overview

SAP Connections provide all the SAP server information necessary for Universal Controller to execute an SAP Task on an SAP system. These instructions assume the user is familiar with SAP.

Creating an SAP Connection

Dashboards 🖾 SAP Connections 🖾						
✓ 5 SAP Connections	Custom	Filter		🗸 🧒 Filt	er 词 <u>G</u> o To 🔯 New	2
Connection Name *	Connection Type Description	SAP ASHOST	SAP Client		AP GWSERV SAP Instance N	
stonebranch-sapconnection-01	Specific Application Server	host 1	client 1		instance 1	
stonebranch-sapconnection-02	Specific Application Server	host 1	client 1		instance 1	
stonebranch-sapconnection-03	Specific Application Server	host 1	client 1		instance 1	
stonebranch-sapconnection-04	Specific Application Server	host 1	client 1		instance 1	
stonebranch-sapconnection-05	Specific Application Server	host 1	client 1		instance 1	
4	m			F		
V SAP Connection Details					引 Save 🛛 🕞 Save & New 🚦	New
SAP Connection SAP Tasks	Versions					
Connection Name Description Member of Business Services Connection Type SAP ASHOST SAP Client SAP GWHOST	: Specific Application Server	SAP Insta Numt SAP GWSE	per:			
Required fields diDefault values for	new SAP Connection, using splay in boldface. fields, if available, display au tails fields on the screen, you	utomatically.	below as	s a guide.		

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).

SAP Connection Details

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

SAP Connection Details: stonebranch-s	apconnection-01						
		[📄 Update	🕒 Сору	Delete	S Refresh	💥 Close
SAP Connection SAP Tasks	Versions						
Details							
Connection Name :	stonebranch-sapconnection-01	Version :		1			
Description :							
Member of Business Services :							~
Connection Type :	Specific Application Server 🗸						
SAP ASHOST :	host 1						
SAP Client :	client 1	SAP Instance Number :					
SAP GWHOST :		SAP GWSERV :					
SAP Connection Details: stonebranch-s SAP Connection SAP Tasks Details Connection Name: Description Member of Business Services Connection Type SAP ASHOST SAP Client: SAP GWHOST Update Copy	🗊 Delete 🛛 🕀 Refresh 🛛 🗱 Close						

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

SAP Connection Details Field Descriptions

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

Field Name	Description				
Details	This section contains detailed information about the SAP Connection.				
Connection Name	Name (maximum 40 alphanumeric characters) used within the Controller to identify this resource. It is the responsibility of the user to develop a workable naming scheme for resources.				
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	Description of this record. (Maximum = 200 characters.)				
Member of Business Services	User-defined; allows you to select one or more Business Services that this record belongs to.				
Connection Type	Type of SAP connection. Options: • Specific Application Server Connection to a specific SAP application server (type A RFC connection). • Load Balancing Connection to an SAP system where the application server is determined by load balancing (type B RFC connection).				
SAP ASHOST	If Connection Type = Specific Application Server; host name of an SAP application server. If the path to the server goes through SAP routers, prefix the host name with the SAP router string.				
SAP Client	If Connection Type = Specific Application Server; SAP Client number.				
SAP Instance Number	If Connection Type = Specific Application Server; SAP instance number.				
SAP GWHOST	If Connection Type = Specific Application Server; host name of the SAP gateway.				
SAP GWSERV	If Connection Type = Specific Application Server; service name of the SAP gateway.				
System ID	If Connection Type = Load Balancing; system ID of the SAP system to which you want to connect.				
Message Server	If Connection Type = Load Balancing; host name of the message server.				
Group	If Connection Type = Load Balancing; application servers group name.				
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 SAP Connection Details that let you perform various actions.				
Save	Saves a new SAP Connection 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 SAP Connection, 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 SAP Connection.
Tabs	This section identifies the tabs across the top of the SAP Connection Details that provide access to additional information about the SAP Connection.
SAP Tasks tab	Lists all SAP tasks that use this SAP connection.
Versions tab	Stores copies of all previous versions of the current record. See Record Versioning.

Copying SAP Connections

- Overview
- Copying One or More SAP Connections from an SAP Connections List
- Copying an SAP Connection from the SAP Connection Details
- Copy Permissions

Overview

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

However, you also can use the Copy action on the SAP Connections Action menu or the Copy button in the SAP Connections Details.

Copying One or More SAP Connections from an SAP Connections List

Step 1 From the Agents & Connections navigation pane, select **System > SAP Connections** to display the SAP Connections list.

Step 2 Locate the SAP Connections(s) you want to copy (see Filtering).

 Copy the SAP Connection(s): Copy One SAP Connection 1. Right-click the SAP Connection Name. 							
	 Right-cick the SAP Connection Name. On the Action menu, select Copy. A Copy SAP Connection pop-up dialog displays. 						
	Copy SAP Connection						
	Enter a new name for the SAP Connection and click Submit.						
	Connection Name : Copy Of stonebranch-sapconnection-01						
	Member of Business Services :						
	Submit Cancel						
	Enter a new name for the SAP Connection and, optionally, select any Business Services that you want the SAP Connection assigned to.						
	4. Click Submit to create a copy of the SAP Connection.						
Сор	y Multiple SAP Connections						
	 Ctrl-Click the SAP Connections you want to copy. Right-click any of the selected SAP Connections. 						
	3. On the Action menu, select Copy .						
	4. On the Confirmation pop-up that displays, click OK. The copied SAP Connections are added to the list, with Copy of added as a prefix to the SAP Connection Name for each other section.						

Copying an SAP Connection from the SAP Connection Details

Step 1 Select an SAP Connection from the SAP Connections list. The SAP Connection Details for that SAP Connection displays.

Step 2	Either:						
	 Click the Copy button. Right-click the Details to display the Action menu, and then click Copy. 						
	A Copy SAP Connection pop-up dialog displays.						
	Copy SAP Connection						
	Enter a new name for the SAP Connection and click Submit.						
	Connection Name : Copy Of stonebranch-sapconnection-01						
	Member of Business Services :						
	Submit Cancel						
Step 3	Enter a new name for the SAP Connection and, optionally, select any Business Services that you want the SAP Connection assigned to.						
Step 4	Click Submit to create a copy of the SAP Connection.						

Copy Permissions

To copy an SAP Connection, you must have both Read permission and Copy command permission for the SAP Connection you are copying, in addition to having Create permission for the copied SAP Connection.

PeopleSoft Connections

- Overview
- Creating a PeopleSoft Connection
 PeopleSoft Connection Details

 - PeopleSoft Connection Details Field Descriptions

Overview

PeopleSoft Connections provide all the PeopleSoft server information necessary for Universal Controller to execute a PeopleSoft task on a PeopleSoft system. These instructions assume the user is familiar with PeopleSoft.

Creating a PeopleSoft Connection

	ashboards 🗵 PeopleSoft Connections	×						
~	5 PeopleSoft Connections			Custom Filter		🔺 🦁 Filter 🗔 G		
	Connection Name A	Description	Server	Endpoint		Updated By	Updated A	
	stonebranch-peoplesoftconnection-01			upps.stone.branch:8080		ops.admin	2018-02-28 13:37:42 -0500	
			ops-cntirt-upps	https://qapsft.stone.branch:8443/PSI https://qapsft.stone.branch:8443/PSI			2018-02-22 13:33:24 -0500 2018-02-22 13:33:34 -0500	
			ops-cntirt-upps ops-cntirt-upps	https://qapsft.stone.branch:8443/PSI			2018-02-22 13:33:43 -0500	
			ops-cntirt-upps	https://qapsft.stone.branch:8443/PSI			2018-02-22 13:34:00 -0500	
1				m				
	PeopleSoft Connection Details					🔚 Save 🕻	🚡 Save & New 📃 New	
	PeopleSoft Connection PeopleSoft	Tasks 🛛 🔍 Ver	sions					
ſ	- Details							
	Connection Name :							
	Description :							
	Member of Business Services :						~	
	Server :				Port :			
	Endpoint :							
	Credentials :			× 📰				
	📅 Save 🛛 🕼 Save & New	New						
Ent	er / select Details for a Required fields dis Default values for 	splay in b	oldface.	-	ld descriptions belo	w as a guide.		
То	 display more of the Det Use the scroll bar. 	ails fields						

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).

PeopleSoft Connection Details

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

PeopleSoft Connection Details: stonebr	anch-peoplesoftconnection-01						
		(🗃 Update 📮	Сору	🎲 Delete	Scherken Refresh	💥 Close
PeopleSoft Connection PeopleSoft	Tasks 🧧 Versions						
Details							
Connection Name :	stonebranch-peoplesoftconnection-01	Version :		4			
Description :							
Member of Business Services :							~
Server :	upps.stone.branch	Port :	80	80			
Endpoint :	upps.stone.branch:8080						
Credentials :							
PeopleSoft Connection PeopleSoft Details Connection Name : Description : Member of Business Services : Server : Endpoint : Credentials : Update Description	👔 Delete 🛛 🕼 Refresh 🛛 💥 Close						

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

PeopleSoft Connection Details Field Descriptions

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

Field Name	Description
Details	This section contains detailed information about the PeopleSoft Connection.
Connection Name	Name (maximum 40 alphanumeric characters) used within the Controller to identify this resource. It is the responsibility of the user to develop a workable naming scheme for resources.
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	Description of this record. (Maximum = 200 characters.)
Member of Business Services	User-defined; allows you to select one or more Business Services that this record belongs to.
Server	Host name of the Name or IP address of the PeopleSoft application server.
Port	Port number for the PeopleSoft application server.
Endpoint	Web service endpoint for the PROCESSREQUEST service.
Credentials	Credentials for the PeopleSoft connection.
	Note If a PeopleSoft task using this PeopleSoft Connection specifies PeopleSoft Credentials, those PeopleSoft task credentials override the PeopleSoft Connection credentials.
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 PeopleSoft Connection Details that let you perform various actions.
Save	Saves a new PeopleSoft Connection 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 PeopleSoft Connection, 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 PeopleSoft Connection.
Tabs	This section identifies the tabs across the top of the PeopleSoft Connection Details that provide access to additional information about the PeopleSoft Connection.
PeopleSoft Tasks tab	Lists all PeopleSoft tasks that use this PeopleSoft connection.
Versions tab	Stores copies of all previous versions of the current record. See Record Versioning.

Copying PeopleSoft Connections

- Overview
- Copying One or More PeopleSoft Connections from a PeopleSoft Connections List
- Copying a PeopleSoft Connection from the PeopleSoft Connection Details
- Copy Permissions

Overview

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

However, you also can use the Copy action on the PeopleSoft Connections Action menu or the Copy button in the PeopleSoft Connections Details.

Copying One or More PeopleSoft Connections from a PeopleSoft Connections List

Step 1 From the Agents & Connections navigation pane, select System > PeopleSoft Connections to display the PeopleSoft Connections list.

Step 2 Locate the PeopleSoft Connections(s) you want to copy (see Filtering).

Step 3	Copy the PeopleSoft Connection(s):				
	Copy One PeopleSoft Connection				
	 Right-click the PeopleSoft Connection Name. On the Action menu, select Copy. A Copy PeopleSoft Connection pop-up dialog displays. 				
	Copy PeopleSoft Connection				
	Enter a new name for the PeopleSoft Connection and click Submit.				
	Connection Name : Copy Of stonebranch-peoplesoftconnection-01				
	Member of Business Services :				
	Submit Cancel				
	 Enter a new name for the PeopleSoft Connection and, optionally, select any Business Services that you want the PeopleSoft Connection assigned to. Click Submit to create a copy of the PeopleSoft Connection. 				
	Copy Multiple PeopleSoft Connections				
	 Ctrl-Click the PeopleSoft Connections you want to copy. Right-click any of the selected PeopleSoft Connections. On the Action menu, select Copy. On the Confirmation pop-up that displays, click OK. The copied PeopleSoft Connections are added to the list, with Copy of added as a prefix to the PeopleSoft Connection Name for each PeopleSoft Connection. If a PeopleSoft Connection with that Copy of name already exists, a numerical suffix is added to the PeopleSoft Connection Name. 				

Copying a PeopleSoft Connection from the PeopleSoft Connection Details

Step 1 Select a PeopleSoft Connection from the PeopleSoft Connections list. The PeopleSoft Connection Details for that PeopleSoft Connection displays.

Step 2	Either:							
	• Click the Copy button.							
	 Right-click the Details to display the Action menu, and then click Copy. 							
	A Copy PeopleSoft Connection pop-							
	Copy People Soft Connection							
	Enter a new name for the PeopleSo							
	Connection Name :							
	Member of Business Services :		~					
		Submit Cancel	1					
Step 3	Enter a new name for the PeopleSof	ft Connection and, optionally, select any Business Services that you want the	e PeopleS	oft Connection assigned to.				
Step 4	Click Submit to create a copy of the	PeopleSoft Connection.						
	· · · · ·	ft Connection and, optionally, select any Business Services that you want the	e PeopleS	oft Connection assigne				

Copy Permissions

To copy a PeopleSoft Connection, you must have both Read permission and Copy command permission for the PeopleSoft Connection you are copying, in addition to having Create permission for the copied PeopleSoft Connection.

SNMP Managers

- Overview
- Creating an SNMP Manager
 - SNMP Manager Details
 - SNMP Manager Details Field Descriptions
- MIB File
 - MIB and SNMP Protocol
 - MIB File Location

Overview

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SNMP Managers are the network managers to which Universal Controller sends SNMP notifications.

Note Universal Controller uses SNMPv1 for its SNMP Managers.

SNMP Managers can receive SNMP notifications when:

- An Agent or OMS Server goes down or comes back up.
- A Cluster Node goes Offline or becomes Active.
- An SNMP Notification is associated with a task.

Note

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SNMP Notifications on Cluster Nodes cannot be exported; therefore, they cannot be imported. You must set up new SNMP Notifications for Cluster Nodes whenever an export / import has been run.

Creating an SNMP Manager

Dashboards 🛛 SNMP Managers 🖾					
✓ 5 SNMP Managers		Custom Filter	*	😽 Filter	🔯 Go To 🚖 New 🦿
Manager Name 📤	Description	Manager Address	Manager Port	Updated By	Updated
stonebranch-snmpmanager-01		127.0.0.1	162	ops.admin	2018-04-30 16:40:07 -0400
stonebranch-snmpmanager-02		127.0.0.2	162	ops.admin	2018-04-30 16:44:24 -0400
stonebranch-snmpmanager-03		127.0.0.3	162	ops.admin	2018-04-30 16:44:35 -0400
stonebranch-snmpmanager-04		127.0.0.4	162	ops.admin	2018-04-30 16:44:41 -0400
stonebranch-snmpmanager-05		127.0.0.5	162	ops.admin	2018-04-30 16:44:49 -0400
✓ SNMP Manager Details				🔚 S	ave 🔓 Save & New 📃 New
SNMP Manager Versions					
Details					
Manager Name	e:				
Description					
Member of Business Services					~
Member of Business Services Manager Address	s :				*
Member of Business Services Manager Address Manager Por	s: t: 16	2			×
Member of Business Services Manager Address	s: t: 16	2			v
Member of Business Services Manager Address Manager Por Trap Community String	s: t: 16 g: public	2			×
Member of Business Services Manager Address Manager Por	s: t: 16 g: public	2			×
Member of Business Services Manager Address Manager Por Trap Community String	s: t: 16 g: public	2			×
Member of Business Services Manager Address Manager Por Trap Community String	s: t: 16 g: public	2			×
Member of Business Services Manager Address Manager Por Trap Community String	s: t: 16 g: public	2			×
Member of Business Services Manager Address Manager Por Trap Community String	s: t: 16 g: public	2			×
Member of Business Services Manager Address Manager Por Trap Community String Save Save Save & New	s: t: 16 public w New	¹² P Manager, using the field descri	otions below as a guide).	×
Member of Business Services Manager Address Manager Por Trap Community String Save Save Save & New	s: t: 16 public w New		otions below as a guide	ð.	
Member of Business Services Manager Address Manager Por Trap Community String Save © Save & New nter / select Details for a • Required fields c	s: t: 16 g: public w New a new SNM display in b o	P Manager, using the field descri	otions below as a guide	÷.	
Member of Business Services Manager Address Manager Por Trap Community String Save Save & New Inter / select Details for a Required fields c Default values for	s: t: 16 g: public w New a new SNM display in bo or fields, if a	P Manager, using the field descri	otions below as a guide	÷.	
Member of Business Services Manager Address Manager Por Trap Community String Save Save & New New Save & New New Save & New Required fields of Default values for o display more of the Default	s: t: 16 public w New a new SNM display in b c or fields, if a etails fields	P Manager, using the field description oldface. vailable, display automatically.	otions below as a guide	3.	
Member of Business Services Manager Address Manager Por Trap Community String Save Save & New Inter / select Details for a Required fields o Default values for o display more of the Details Use the scroll ba	s: t: 16 public w New a new SNM display in b or fields, if a etails fields ar.	P Manager, using the field descri oldface. vailable, display automatically. on the screen, you can either:	otions below as a guide	.	
Member of Business Services Manager Address Manager Por Trap Community String Save © Save & New nter / select Details for a Required fields c Default values for o display more of the De Use the scroll ba Temporarily hide	s: t: 16 g: public w New a new SNM display in bo or fields, if a etails fields ar. e the list abo	P Manager, using the field descri oldface. vailable, display automatically. on the screen, you can either:		Э.	

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).

SNMP Manager Details

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

SNMP Manager Details: stonebranch-sn	mpmanager-01	
	🦷 Update 🖺 Copy 🇊 Delete 🕼 Refresh 🍃	K Close
SNMP Manager O Versions		
Details		
Manager Name :	stonebranch-snmpmanager-01 Version : 1	
Description :		
Member of Business Services :		~
Manager Address :	127.0.0.1	
Manager Port :	162	
Trap Community String :	public	
Update Copy	Delete SRefresh Kose	

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

SNMP Manager Details Field Descriptions

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

Field Name	Description
Details	This section contains detailed information about the SNMP Manager.
Manager Name	Name used within the Controller to identify this resource. Up to 40 alphanumerics. It is the responsibility of the user to develop a workable naming scheme for resources.
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	Description of this record. (Maximum = 200 characters.)
Member of Business Services	User-defined; allows you to select one or more Business Services that this record belongs to.
Manager Address	Name or IP address of the SNMP Manager.
Manager Port	Port used by the SNMP Manager.
Trap Community String	Used by the trap receiver to determine which traps to process. Default is public .
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 SNMP Manager Details that let you perform various actions.
Save	Saves a new SNMP Manager 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 SNMP Manager, 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 SNMP Manager.
Tabs	This section identifies the tabs across the top of the SNMP Manager Details that provide access to additional information about the SNMP Manager.

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

A MIB file contains the translation of the SNMP notifications sent to the SNMP Manager by the Controller.

A sample MIB file, OPSWISE.MIB.txt, is shipped with all Universal Agent for Windows and UNIX packages.

MIB and SNMP Protocol

SNMP protocol is a simple UDP package containing a set of dot-separated characters defined as ObjectID.

You can use the MIB file to set up the corresponding options Tree; the numbers will tell the server which line to go down. You then can look up inside the server for those results or, more importantly, define alerts on the decision option of the tree-structure that you defined with the MIN file.

If you have a more graphical server, you also may have a GUI showing the different parts of your trees in diagrams or other types of reporting.

SNMP protocol is, in effect, an external Alarm/(simple up to rather complex) Reporting System that searches for the Return Code (Success or Failure) of a task, rather than the actual output of the task. It could tell the Operator, for example: the Return Code is not as expected, add paper to the printer, the machine is low on disk space, or the server just booted up. These messages can be as descriptive as defined and, of course, will depend on the logging capability of the corresponding manager, which in our case is the Controller. It can be thought of as a centralized Information system, where quite a lot of tools and hardware can use for status exchange.

MIB File Location

The MIB file for both UNIX and Windows are included in the samp directory (UNIX) and samples directory (Windows) for Universal Automation Center Agent (UAG):

 UNIX
 /opt/universal/uagsrv/samp

 Windows
 \Program Files\Universal\UAGSrv\samples

Copying SNMP Managers

- Overview
- Copying One or More SNMP Managers from an SNMP Managers List
- Copying an SNMP Manager from the SNMP Manager Details
- Copy Permissions

Overview

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

However, you also can use the Copy action on the SNMP Manager Action menu or the Copy button in the SNMP Manager Details.

Copying One or More SNMP Managers from an SNMP Managers List

Step 1 From the Agents & Connections navigation pane, select System > SNMP Managers to display the SNMP Managers list.

Step 2 Locate the SNMP Managers(s) you want to copy (see Filtering).

Step 3	Copy the	e SNMP Manager(s):	
otop o			
	Copy One SNMP Manager		
		Right-click the SNMP Manager Name.	
	2.	On the Action menu, select Copy . A Copy SNMP Manager pop-up dialog displays.	
		Copy SNMP Manager	
		Enter a new name for the SNMP Manager and click Submit.	
		Manager Name : Copy Of stonebranch-snmpmanager-01	
		Member of Business Services :	
		Submit Cancel	
		Enter a new name for the SNMP Manager and, optionally, select any Business Services that you want the SNMP Manager assigned to.	
	4.	Click Submit to create a copy of the SNMP Manager.	
	Сору М	ultiple SNMP Managers	
	2. 3.	Ctrl-Click the SNMP Managers you want to copy. Right-click any of the selected SNMP Managers. On the Action menu, select Copy .	
		On the Confirmation pop-up that displays, click OK . The copied SNMP Managers are added to the list, with Copy of added as a prefix to the SNMP Manager Name for each SNMP Manager. If an SNMP Manager with that Copy of name already exists, a numerical suffix is added to the SNMP Manager Name.	

Copying an SNMP Manager from the SNMP Manager Details

Step 1 Select an SNMP Manager from the SNMP Managers list. The SNMP Manager Details for that SNMP Manager displays.

Step 2	Either: Click the Copy button. Right-click the Details to display the Action menu, and then click Copy . A Copy SNMP Manager pop-up dialog displays.		
	in opp on the manager pop up along displayer		
	Copy SNMP Manager		
	Enter a new name for the SNMP Manager and click Submit.		
	Manager Name : Copy Of stonebranch-snmpmanager-01		
	Member of Business Services :		
	Submit Cancel		
Step 3	Enter a new name for the SNMP Manager and, optionally, select any Business Services that you want the SNMP Manager assigned to.		
Step 4	Click Submit to create a copy of the SNMP Manager.		

Copy Permissions

To copy an SNMP Manager, you must have both Read permission and Copy command permission for the SNMP Manager you are copying, in addition to having Create permission for the copied SNMP Manager.