

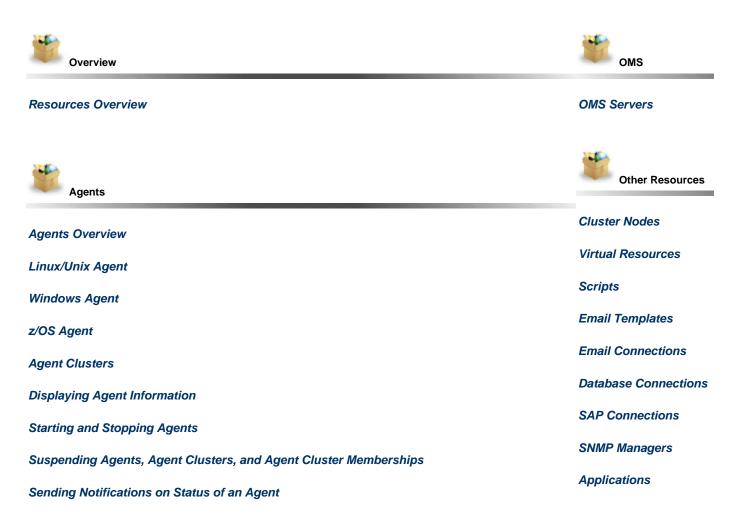
Universal Controller 6.2.x

Resources

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Resources





The information on these pages also is located in the Universal Controller 6.2.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 6.2.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.
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
- Suspending Agents, Agent Clusters, and Agent Cluster Memberships
 - Suspending an Agent
 - Suspending an Agent Cluster
 - Suspending an Agent Cluster Membership
- Resetting the Current Task Count
- Sending Notifications on Status of an Agent
 - Email Notification Details
 - Email Notification Details Field Descriptions
 - SNMP Notification Details
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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).)

~	5 Linux/Unix Agents				Custom	Filter None			*	🤯 Filter 🔯 Go To ಿ
	Agent Name *	Host Name	Agent Id	Version	Last Heartbeat	Current Task Count	Suspended	Status	Updated By	Updated
E	stonebranch-linuxunixagent-01	stonebranch1	agent1	5.2.0.2	2014-04-28 17:50:46 -040	0	0 No	Offline		2014-04-28 17:50:59 -0400
5	stonebranch-linuxunixagent-02	stonebranch2	agent2	5.2.0.2	2014-05-14 12:45:15 -040	0	D No	Offline	ops.system	2014-05-14 12:46:18 -0400
E	stonebranch-linuxunixagent-03	stonebranch3	agent3	5.2.0.2	2014-05-14 12:44:36 -040	0	0 No	Offline	ops.admin	2014-05-20 17:18:48 -0400
	stonebranch-linuxunixagent-04	stonebranch4	agent4	5.2.0.2	2014-05-14 12:45:40 -040	0	0 No	Offline	ops.system	2014-05-14 12:46:44 -0400
15	stonebranch-linuxunixagent-05	stonebranch5	agent5	5.2.0.5	2014-07-01 16:18:29 -040	0 91	6 No	Active	ops.system	2014-07-01 16:18:47 -0400

Linux/Unix Agent Details:	stonebranch-linuxunixagent-01			
		(F) (Jpdate 📵 Suspend Agent 🎲 Delete 📑 Ref	fresh 💢 (
Linux/Unix Agent 🔍 🦉	Agent Clusters Notifications Task Instances			
Configuration Detail	s			
Agent Name :	stonebranch-linuxunixagent-01	Agent Id :	agent1	
Status :	Offline	Suspended :		
Log Level :	Informational	Member of Business Services :		
Heartbeat Interval :	120	Credentials :		~
Task Execution Limit :	Limited	Limit Amount :	5	
- Installation Details -				
Host Name :	Linux1	Version :	5.2.0.2	
IP Address :		Build Id :	110	
Operating System :	Linux	Build Date :	20140318194235	
Operating System Release :	x86_64 2.6.18-274.7.1.el5 (#1 SMP Thu Oct 20 16:21:01 ED1	CPU :	AuthenticAMD AMD Phenom(tm) II X6 1055T Proce	essor (6 CF
System Details				
Started Date :	2014-04-23 17:28:55 -0400		5915	
Started Date :	2014-04-23 17:28:55 -0400 2014-04-28 17:50:46 -0400	Jobs Run :	0	
Started Date :	2014-04-28 17:50:46 -0400		0	
Started Date : Last Heartbeat : CPU Load :	2014-04-28 17:50:46 -0400	Jobs Run : Current Task	0	
Started Date : Last Heartbeat : CPU Load : OMS Server :	2014-04-28 17:50:46 -0400 0	Jobs Run : Current Task	0	
Started Date : Last Heartbeat : CPU Load : OMS Server :	2014-04-28 17:50:46 -0400 0 localhost.7878	Jobs Run : Current Task Count :	0	
Started Date : Last Heartbeat : CPU Load : OMS Server :	2014-04-28 17:50:46 -0400 0 localhost.7878	Jobs Run : Current Task Count :	0	
Started Date : Last Heartbeat : CPU Load : OMS Server : Update	2014-04-28 17:50:46 -0400 0 localhost.7878	Jobs Run : Current Task Count :	0	
Started Date : Last Heartbeat : CPU Load : OMS Server : Update	2014-04-28 17:50:46 -0400 0 localhost:7878 Suspend Agent Delete Refresh play-only; however, you can make the fo	Jobs Run : Current Task Count :	0	
Started Date : Last Heartbeat: CPU Load : OMS Server : Update	2014-04-28 17:50:46 -0400 0 localhost:7878 Suspend Agent Delete Refresh play-only; however, you can make the for mber of Business Services.	Jobs Run : Current Task Count :	0	

You also can choose to:

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

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**.



- 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	Fron	n the A	gents & Connections navigation pane, select Agents > All Agents or Agents > <type agent="" of="">. An Agents list displays</type>				
Step 2	Click	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	Click the Notifications tab to display a list of any Email and SNMP notifications configured for the Agent.					
Step 4			type of notification you want the Agent to send, and then click New . Notification Details for a new Notification displays (Sec fication Details and SNMP Notification Details, below.				
Step 5	Com belo		the fields as needed (see Email Notification Details Field Descriptions and SNMP Notification Details Field Descriptions,				
			Noto				
		۸	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).				

Email Notification Details

mail Notification Details		-	
Email Notification		Save	💥 Close
Criteria			
Status Options :			~
- Details			
Email Template :	🗸 🔄 Email Connection :		× 13
Reply-To :			
To :			
Cc:			
Bcc :			
Subject :			
Body :			
Save	X 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.
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. (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 Email Connection. An Email Connection specifies information about an email server. Enter the name of an existing Email Connection, or click the magnifying glass to browse for an existing Email Connection or create a new Email Connection. 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 button	Submits the new record to the database.
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

SNMP Notification Details				_)[])×
			📳 Save	💢 Close
SNMP Notification				
Criteria Status Options :				*
SNMP Manager :	× 📰	Notification Severity : Normal		~
🕅 Save 🗱 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.
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 button	Submits the new record to the database.
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

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

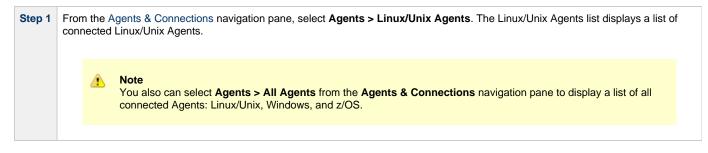
Overview

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:



.inux/Unix Agent Details	stonebranch-linuxunixagent-01		
			Update 🕕 Suspend Agent 🎲 Delete 📑 Refresh 💥 Clos
Linux/Unix Agent 🛛 🔍	Agent Clusters Notifications Task Instances		
Configuration Detai	s		
Agent Name	stonebranch-linuxunixagent-01	Agent Id :	agent1
Status	Offline	Suspended :	
Log Level :	Informational	Member of Business Services :	×.
Heartbeat Interval	120	Credentials :	
Task Execution Limit :	Limited	Limit Amount :	5
Installation Details			
Host Name	Linux1	Version :	52.0.2
IP Address		Build Id :	
Operating System	Linux		20140318194235
	x86_64 2.6.18-274.7.1.el5 (#1 SMP Thu Oct 20 16:21:01 EDT .	CPU :	AuthenticAMD AMD Phenom(tm) II X6 1055T Processor (6 CPU)
- System Details			
Started Date :	2014-04-23 17:28:55 -0400	PID :	5915
Last Heartbeat	2014-04-28 17:50:46 -0400	Jobs Run :	0
CPU Load	0	Current Task	0
OMS Server	localhost:7878	Count :	
🔛 Update 🕕	Suspend Agent 👔 Delete 💱 Refresh 🎽	Close	

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.
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 should perform. Options: • Severe Error • Errors • Warning • Informational • Debug • Trace
Member of Business Service	User-defined at installation; specifies one or more Business Services that this resource belongs to.
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.)	
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.	

Windows Agent

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    Overview
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- 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:

	From the Agents & connected Window		on pane, select Age	nts > Window	vs Agents . The Windows Agents list displays a list of
		lso can select Agents s: Linux/Unix, Window		ne Agents & C	Connections navigation pane to display a list of all
2	Click the Details in	con next to an Agent N	ame or click anywhe	re in the Agen	t row to display Details for that agent.
	Windows Agent Details:	stonebranch-windowsagent-01			
					Jpdate 🐽 Suspend Agent 🎲 Delete 📑 Refresh 💥 Close 🗌
	Windows Agent 🧧 🖌	Agent Clusters Notifications	Task Instances		
	Configuration Detai	Is			
	Agent Name :	stonebranch-windowsagent-01		Agent Id :	WX64
	Status :	Offline		Suspended :	
	Log Level :	Informational	~	Member of Business Services :	QA Department
	Heartbeat Interval :	120		Credentials :	× 🖂
	Task Execution Limit :		v	Limit Amount :	
	- Installation Details				
	Host Name :	w2-x64		Version :	5.2.0.2
	IP Address :			Build Id :	109
	Operating System :	Microsoft Windows		Build Date :	20140317155851
	Operating System Release :	Server 4.0 (Build 9200)		CPU :	AMD64 (1 CPU(s))
	- System Details				
		2014-03-18 15:49:03 -0400		PID :	244
	Last Heartbeat :	2014-03-24 15:17:17 -0400		Jobs Run :	1
	CPU Load :	6		Current Task	0
	OMS Server :	localhost:7878	E-		
	🔛 Update 🕕	Suspend Agent 👔 Delete	😫 Refresh 🛛 💥	Close	

Step 3 Most fields are display-only; however, you can make the following changes:

- 1. Add a Member of Business Services.
- 2. Assign Credentials.
- 3. Change the heartbeat interval. The heartbeat is a status message sent from the Agent to the Controller.
- 4. Change the Log Level (default is Informational).
- 5. 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 Windows Details.

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.
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 should perform. Options: • Severe Error • Errors • Warning • Informational • Debug • Trace
Member of Business Service	User-defined at installation; specifies one or more Business Services that this resource belongs to.
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.)	

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.	

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:



z/OS Agent Details: stone	branch-zOSagent-01			
			Update 📵 Suspend Agent 🎲 Delete 📑 Refresh	💥 Close
z/OS Agent 🔍 Notifi	cations Task Instances			
Configuration Detail	s			
Agent Name :	stonebranch-zOSagent-01	Agent Id	ZOS52	
Status :	Offline	Suspended	:	
Log Level :	Debug	Member o Business Services	f	~
Heartbeat Interval :	120	Credentials		× 13
Task Execution	Limited	Limit Amount	5	
Limit :		Link		
Installation Details				
Host Name :	ZOS11	Version	5.2.0.3	
IP Address :		Build Id	: 111	
Operating System :		Build Date	20140430105205	
Operating System Release :	011100	CPU	: 2098	
- System Details		1		
	2014-04-30 10:53:36 -0400		: 126058520	
Last Heartbeat :	2014-04-30 11:19:48 -0400	Jobs Run		
CPU Load :	0	Current Task Count		
OMS Server :	localhost:7878			
📳 Update 🕕	Suspend Agent 🌐 Delete 📑 Refresh 🗱	Close		
Most fields are rea	ad-only; however, you can make the followi	na chanaes:		
		ng onanges.		
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.

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

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.
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 should perform.
	Options:
	 Severe Error Errors Warning Informational Debug Trace
Member of Business Service	User-defined at installation; specifies one or more Business Services that this resource belongs to.
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.)		
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.		

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 from the 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

Linux/Unix Agent Clusters							
	Custom Filter None 🗸 🦁 Filter 😨 Go To 🍰 New 🦿						
✓ 5 Linux/Unix Agent Clusters Cluster Name ▲	Distribution Current Task Count Suspended Updated By Updated *						
stonebranch-linuxunixcluster-01	Any 0 No ops.admin 2014-06-13 15:23:02 -0400						
stonebranch-linuxunixcluster-02	Any 0 No ops.admin 2014-06-13 15:23:06 -0400						
stonebranch-linuxunixcluster-03	Any 0 No ops.admin 2014-06-13 15:23:11 -0400						
stonebranch-linuxunixcluster-04	Any 0 No ops.admin 2014-06-13 15:23:16 -0400						
stonebranch-linuxunixcluster-05	Any 0 No ops.admin 2014-06-13 15:23:19 -0400						
✓ Linux/Unix Agent Cluster Details	🐺 Save 🗖 New						
Linux/Unix Agent Cluster Agents I	s In Cluster S Tasks Versions						
Details							
Cluster Name :	Version : 1						
Distribution : Any	V Last Agent Used :						
Suspended :	Current Task Count : 0						
Task Execution Limit :	✓ Limit Amount : 5						
Save New							
	new agent cluster, using the field descriptions below as a guide.						
Required fields disDefault values for f							

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.

			📳 Update	Suspend Agent Cluster	🇊 Delete 🛭 😫 Refresh	💥 Clo
nux/Unix Agent Cluster	Agents In Cluster	Versions				
Details						
Cluster Name :	stonebranch-linuxunixcluster-01		Version :	1		
Distribution :	Any	~	Last Agent Used :			57
Suspended :			Current Task Count :	0		
Task Execution Limit :	Limited	*	Limit Amount :	5		
\Bigg Update 🕕	Suspend Agent Cluster	lete	X Close			

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.
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.
Last Agent Used	Lowest CPU Utilization - Selects the Agent whose CPU utilization is currently the lowest. 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.
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.
Update	Saves updates to the record.

Suspends the ability for this cluster of Agents to run tasks.
Resumes the ability for this suspended cluster of Agents to run tasks.
Deletes the current record.
Refreshes any dynamic data displayed in the Details.
For pop-up view only; closes the pop-up view of this task.
This section identifies the tabs across the top of the Agent Cluster Details that provide access to additional information about the agent cluster.
List of Agents assigned to this cluster.
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.
Stores copies of all previous versions of the current record. See Record Versioning.

Assigning Agents to the Cluster

Step 1 On the Linux/Unix Clusters list (for example), click the Cluster Name of the cluster to which you want to assign one or more existing Agents.

5 Linux/Unix Agent Clusters	Custom Filter None		🗸 🦁 Filter [🗟 <u>G</u> o To 🏭 New ಿ
Cluster Name A			ded Updated By	Updated
stonebranch-linuxunixcluster-01	Any	0 No	ops.admin	2014-06-13 15:23:02 -0400
stonebranch-linuxunixcluster-02	Any	0 No	ops.admin	2014-06-13 15:23:06 -0400
stonebranch-linuxunixcluster-03	Any	0 No		2014-06-13 15:23:11 -0400
stonebranch-linuxunixcluster-04	Any	0 No		2014-06-13 15:23:16 -0400
stonebranch-linuxunixcluster-05	Any	0 No	ops.admin	2014-06-13 15:23:19 -0400
Linux/Unix Agent Cluster Details Linux/Unix Agent Cluster Agents in Cluster	Tasks Versions			🗑 Save 📄 New
Details				
Cluster Name :	Ver	sion : 1		
Distribution : Any	✓ Last Agent U			53
Suspended :	Current Task C			
Tools Execution				
Task Execution Limit :	👻 Limit Amo	ount: 5		
ick the Edit button. The Edit Membe	ers dialog displays:			
ick the Edit button. The Edit Membe	ers dialog displays:			
	ers dialog displays:	Linux/Uni	x Agents List	
Edit Members				
Edit Members Collection	ş	stonebranch-I		
Edit Members Collection Agent Name [▲]	Agent Na	stonebranch-l me ^		-01
Edit Members Collection Agent Name A stonebranch-linuxunixagent-04	Agent Na stonebrar	stonebranch-l me ^ nch-linuxunixagent-01		-01
Edit Members Collection Agent Name [▲]	Agent Na stonebrar stonebrar	stonebranch-I me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name * stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01		-01
Edit Members Collection Agent Name A stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-I me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name A stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name * stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name * stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name * stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name * stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name * stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name * stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name A stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name A stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name A stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Edit Members Collection Agent Name * stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01
Collection Agent Name * stonebranch-linuxunixagent-04	Agent Na stonebrar stonebrar	stonebranch-l me ^ nch-linuxunixagent-01 nch-linuxunixagent-02		-01

Step 4	The Agents in the Collection window are existing Agents of the current type that do not belong to this cluster. The Agents in the Linux/Unix Agents List window are Agents that belong to this cluster.
Step 5	 To add to or remove Agents from the Linux/Unix Agents List: 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 6.2.x and Universal Agent 6.2.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.

✓ 3 OMS Servers	Custom Filter None	-	~	🤯 Filter	🗟 Go To 🗄 New 🍣
OMS Server Address *	Status	Session Status	Authenticate OMS Serv		Updated 🔺
localhost:7878	Connected	Operational	No	opswise.syst	em 2014-03-05 10:07:13 -0400
in2611-x64	Disconnected	None	Yes	ops.admin	2014-08-27 16:17:41 -0400
k32-x64	Connected	Impaired	No	opswise.sys	em 2014-08-27 16:20:05 -0400
V OMS Server Details					🔚 Save 📃 New
OMS Server Agents Notifications					
Details					
OMS Server		Status	Disconnected		
Address : Network Timeout 30					
(Seconds): 30		Session Status	None		
Authenticate OMS Server :		Last Connected Server Address			
Rew New					
Enter / select Details for a new OMS Se • Required fields display in boldf • Default values for fields, if avail	ace.		low as a guide.		
To display more of the Details fields on		-	e the list.		

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							
			🔚 Update	🇊 Delete	😫 Refresh	💥 Clo	ose
OMS Server Agents Notifications							
Details OMS Server Address : Network Timeout (Seconds) : 30	Status : Session Status :	Connected Operational					~
Authenticate OMS Server:	Last Connected Server Address :	localhost/127.	0.0.1:7878				

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.
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.
Update	Saves updates to the record.
New	Displays empty (except for default values) Details for creating a new OMS Server 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.

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	Fror	m the	Agents and Connections navigation pane, select System > OMS Servers. The OMS Servers list displays.							
Step 2	Оре	Open the record of an OMS Server on the list.								
Step 3	Clic	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	Con belc		the fields as needed (see Email Notification Details Field Descriptions and SNMP Notification Details Field Descriptions,							
		۸	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	Clic	k the S	Save button to save the record.							

Email Notification Details

Email Notification Details			
		🔛 Save	💢 Close
Email Notification			
Criteria			
Status Options :			~
Details			
Email Template :	🛩 🔄 Email Connection :		*
Reply-To :			
To :			
Cc:			
Bcc :			
Subject :			
Body :			
Save	X Close		

Email Notification Details Field Descriptions

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

Field	Description		
Name			

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.	
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 Email Connection. An Email Connection specifies information about an email server. Enter the name of an existing Email Connection, or click the magnifying glass to browse for an existing Email Connection or create a new Email Connection.	
	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 button	Submits the new record to the database.	

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

SNMP Notification Details		
		🔚 Save 💥 Close
SNMP Notification		
CriteriaStatus Options :		
Status Options :		Υ.
Details	N - 415 41	
SNMP Manager :	Notification Severity : Normal	~
Save X 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	 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.	

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 button	Submits the new record to the database.
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
 - Cluster Node Details Field Descriptions
 the second secon
- 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.

1 Cluster Node				Custom Filter None			× 🤘	🖇 Filter [🟹 💁 To 🛛 🍣 🗌
Node Id 👻	Mode	Start Time	Timestamp Upt	ime	Host Name	IP Address	Release	Build Id	Build Date
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	build.200	12-18-2014_0800

Cluster Node Details

ister Node Details: op	swise:8080-opswise		
			🔄 Refresh 💥 Clos
Cluster Node 🛛 🔍 Clu	ster Notifications		
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 :			
S Refresh	X Close		
4 Reliesh	A Close		

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	URL 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.
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.

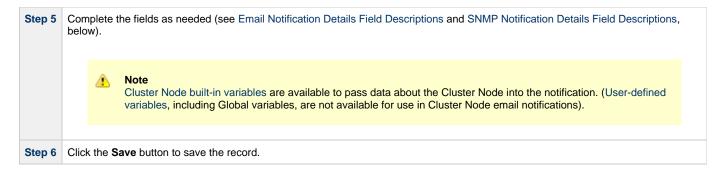
Starting/Stopping Cluster Nodes

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).



Email Notification Details

Email Notification Details			
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Email Notification			
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Cc:			
Bcc :			
Subject :			
Body :			
Save	K 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 Email Connection. An Email Connection specifies information about an email server. Enter the name of an existing Email Connection, or click the magnifying glass to browse for an existing Email Connection or create a new Email Connection.
	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 button	Submits the new record to the database.
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

SNMP Notification D	tails			
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SNMP Notification				
Criteria				
Mode	:		~	
Details] =
SNMI Manager			~	
F Save	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.
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 button	Submits the new record to the database.
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

Virtual Resources 🖾						
✓ 5 Virtual Resources		Custom Filter None			🗸 🤯 Filter	🔯 Go To 🙅 New
Resource Name *	Resource Type	Resource Description	Resource Limit F	Resource Us		Updated
stonebranch-virtualresource-01	Renewable		10	0	stonebranch-user-02	2014-06-13 15:26:49 -0400
stonebranch-virtualresource-02	Renewable		10	0	stonebranch-user-01	2014-06-13 15:26:54 -0400
stonebranch-virtualresource-03	Renewable		10	0	stonebranch-user-02	2014-06-13 15:26:58 -0400
stonebranch-virtualresource-04	Renewable		10	0	stonebranch-user-01	2014-06-13 15:27:01 -0400
stonebranch-virtualresource-05	Renewable		10	0	stonebranch-user-02	2014-06-13 15:27:05 -0400
V Virtual Resource Details	Currently In Use By	Dutstanding Requests	sions			🗑 Save 🗖 New
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Resource						
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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.

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rtual Resource 🛛 😐	Tasks	Currently In Use By	Outstanding Requests	Versions						
Details										
Resource Name	stonebranch	n-virtualresource-01			Version :	1				
Resource Type	Renewable		~	Reso	Irce Limit :	10				
Resource Description										
Member o Business Services										~
Resource Used	0]								

🔥 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.

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.
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.
Update	Saves updates to the record.
New	Displays empty (except for default values) Details for creating a new Virtual Resource 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. Open the Virtual Resource record that you want to assign tasks to. Step 1 Step 2 Click the Tasks tab. A list of any tasks assigned to the Virtual Resource displays. Virtual Resource Details: stonebranch-virtualresource-01 Virtual Resource Tasks
 Currently In Use By
 Outstanding Requests
 Versions Edit 2 Task Å Amount Updated By Updated 2014-07-02 13:22:42 -0400 stonebranch-linuxunixtask-01 stonebranch-user-02 1 stonebranch-linuxunixtask-02 stonebranch-user-01 2014-07-02 13:22:43 -0400

	Edit Members					
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	stonebranch-linuxunixtask-03	Linux/Un	ix	1	stonebranch-linuxunixtask-01	
	stonebranch-linuxunixtask-04	Linux/Un		1	stonebranch-linuxunixtask-01	
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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.)

· · · · · · · · · · · · · · · · · · ·							
~			Custom Filter Nor	ie		👻 🦁 Filter	🔽 Go To 🙅 New
Resource Name ^		Resource Type	Resource Description	Resource Limit Re	source Used	Updated By	Updated
stonebranch-virtualres		Renewable		10	0	stonebranch-user-02	2014-06-13 15:26:49 -040
stonebranch-virtualres	Den State	B		10	0	stonebranch-user-01	2014-06-13 15:26:54 -040
stonebranch-virtualres	-			10	0	stonebranch-user-02	2014-06-13 15:26:58 -040
stonebranch-virtualres stonebranch-virtualres	Rev Bundle	es		10	0	stonebranch-user-01	2014-06-13 15:27:01 -040 2014-06-13 15:27:05 -040
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	Reset Virtua	al Resource					
	Delete	_					
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	S Refresh Sel	lection					
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Virtual Resource 😐	Tasks © Curr	ently In Use By 🛛 🔍	Outstanding Requests 🛛 😐	Versions			
Details							
Resource Name :				Version :	1		
Resource Type :	Renewable		~	Resource Limit :	10		
Resource	Kenewabie						
Description :							
Member of Business Services :							~
	0						
Resource Used :	0						
	U						

Scripts

- Overview
 Creating a
 - Creating a Script
 - Script Details
 - Script Details Field Descriptions
- Uploading a Script

Overview

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

There are three types of scripts:

- Scripts
- UDM scripts
- SAP definition files

When a task that specifies a 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}
```

View the Scripts video to learn more about this feature.

Creating a Script

1 :	Scripts 🗵							
~	5 Scripts			Custom Filter None		👻 🦁 Filter	🔯 Go To 🚭 New	2
	Script Name *	Script Type	Descriptio	in	Resolve UAC Variables	Updated By	Updated	-
8	stonebranch-script-01	Script			No	ops.admin	2014-06-13 15:27:44 -040	0
8	stonebranch-script-02	Script			No	ops.admin	2014-06-13 15:27:55 -0400	D
8	stonebranch-script-03	Script			No	ops.admin	2014-06-13 15:27:58 -0400	0
8	stonebranch-script-04	Script			No	ops.admin	2014-06-13 15:28:01 -0400	o
8	stonebranch-script-05	Script			No	ops.admin	2014-06-13 15:28:06 -0400)
	' Script Details					a Sav	re 📃 New 🔏 Upload S	cript
Ļ	Script @ Tasks @ Not	es 🛛 🕲 Versions						
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	Content :							E
	Member of Business Services :						*	T
int	er / select Details for a n	ew script, us	ing the	field descriptions	below as a guide	e.		
	Required fields dispDefault values for fi			splay automatical	y.			
0	display more of the Deta	ls fields on t	he scre	een, you can temp	orarily hide the li	st.		
	A Note	t Details for	an exis	sting script by click	ing a script in the	e list. and then wa	nt to create a new	script

Script Details

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.

t Details: stonebranch-script-01		
	🔚 Update 🛃 Upload Script 🎲 Delete 🔄 Refresh 🎽	Clos
Script Tasks No	tes Versions	
Details		
Script Name :	stonebranch-script-01 Version : 1	
Description :		
Script Type :	Script Resolve UAC Variables :	
Content :		
Content.		
Member of Business Services :		~
🐖 Update 🛛 🛃 Upload Script	🕼 Delete 🕅 🙀 Refresh 🗮 Close	
🦷 Update 🛛 🛃 Upload Script	Oligi Delete	

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	User-defined; description of this record. (Maximum = 200 characters.)
Script Type	Type of script. Options: • 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)

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.
	Note Variables <i>could</i> 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_src_cred_pwd 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:
	<pre>open src=srcserver user=\$(ops_src_cred_user) pwd=\$(ops_src_cred_pwd) dst=dstserver user=\$(ops_dst_cred_user) pwd=\$(ops_dst_cred_pwd)</pre>
	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in the script or on the command line.
Buttons	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in
	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in the script or on the command line.
Buttons Save Update	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in the script or on the command line. This section identifies the buttons displayed above and below the Script Details that let you perform various actions.
Save Update	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in the script or on the command line. This section identifies the buttons displayed above and below the Script Details that let you perform various actions. Saves a new script record in the Controller database.
Save	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in the script or on the command line. This section identifies the buttons displayed above and below the Script Details that let you perform various actions. Saves a new script record in the Controller database. Saves updates to the record.
Save Update New Upload Script	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in the script or on the command line. This section identifies the buttons displayed above and below the Script Details that let you perform various actions. Saves a new script record in the Controller database. Saves updates to the record. Displays empty (except for default values) Details for creating a new script.
Save Update New Upload Script Delete	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in the script or on the command line. This section identifies the buttons displayed above and below the Script Details that let you perform various actions. Saves a new script record in the Controller database. Saves updates to the record. Displays empty (except for default values) Details for creating a new script. Allows you to upload a script from the local file system and place it in the Content field (see Uploading a Script, below).
Save Update New Upload Script Delete Refresh	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in the script or on the command line. This section identifies the buttons displayed above and below the Script Details that let you perform various actions. Saves a new script record in the Controller database. Saves updates to the record. Displays empty (except for default values) Details for creating a new script. Allows you to upload a script from the local file system and place it in the Content field (see Uploading a Script, below). Deletes the current record.
Save Update New Upload Script Delete Refresh Close	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in the script or on the command line. This section identifies the buttons displayed above and below the Script Details that let you perform various actions. Saves a new script record in the Controller database. Saves updates to the record. Displays empty (except for default values) Details for creating a new script. Allows you to upload a script from the local file system and place it in the Content field (see Uploading a Script, below). Deletes the current record. Refreshes any dynamic data displayed in the Details.
Save Update New Upload Script Delete Refresh Close Tabs	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in the script or on the command line. This section identifies the buttons displayed above and below the Script Details that let you perform various actions. Saves a new script record in the Controller database. Saves updates to the record. Displays empty (except for default values) Details for creating a new script. Allows you to upload a script from the local file system and place it in the Content field (see Uploading a Script, below). Deletes the current record. Refreshes any dynamic data displayed in the Details. For pop-up view only; closes the pop-up view of this task.
Save Update New Upload	The values for these variables are sent to UDM via stdin. This provides a secure channel where the credentials never show up in the script or on the command line. This section identifies the buttons displayed above and below the Script Details that let you perform various actions. Saves a new script record in the Controller database. Saves updates to the record. Displays empty (except for default values) Details for creating a new script. Allows you to upload a script from the local file system and place it in the Content field (see Uploading a Script, below). Deletes the current record. Refreshes any dynamic data displayed in the Details. For pop-up view only; closes the pop-up view of this task. This section identifies the tabs across the top of the Script Details that provide access to additional information about the script.

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.

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

Email Templates 🔟					
✓ 5 Email Templates		Custom Filter	None	🗸 😴 Fi	ilter 🔽 Go To 🧔 New ಿ
Template Name *	То	Cc	Subject	Updated By	Updated
stonebranch-emailtemplate-01	stonebranch@stonebrar			stonebranch-user-01	2014-06-13 15:31:14 -0400
stonebranch-emailtemplate-02	stonebranch@stonebrar	nch.com		stonebranch-user-02	2014-06-13 15:31:25 -0400
stonebranch-emailtemplate-03	stonebranch@stonebrar	nch.com		stonebranch-user-03	2014-06-13 15:31:32 -0400
stonebranch-emailtemplate-04	stonebranch@stonebrar	nch.com		stonebranch-user-04	2014-06-13 15:31:43 -0400
stonebranch-emailtemplate-05	stonebranch@stonebrar	nch.com		stonebranch-user-05	2014-06-13 15:31:49 -0400
1			m		
t ✓ Email Template Details Email Template) ● Versions			m		📆 Save 🔳 Nev
Email Template Details Email Template Versions			11		
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Email Template Details Email Template Otrails Details				1	R Save Nev
Email Template Details Email Template Oversions Details Template Name : Email Connection :				1	
Email Template Details Email Template Oetails Template Name :				1	R Save Nev
Email Template Details Email Template Oversions Details Template Name : Email Connection :				1	R Save Nev
Email Template Details Email Template Otails Template Name : Email Connection : Reply-To :				1	R Save Nev
Email Template Details Email Template Oetails Template Name : Email Connection : Reply-To : To : To : }				1	R Save Nev
Email Template Details Email Template Otails Template Name : Email Connection : Reply-To :				1	R Save Nev
Email Template Details Email Template Oetails Template Name : Email Connection : Reply-To : To : To : }				1	R Save Nev

Step 2	• R • D	lect Details for a new Email Template, using the field descriptions below as a guide. equired fields display in boldface . efault values for fields, if available, display automatically. whore of the Details fields on the screen, you can temporarily hide the list.
	۸	Note If you view Email Template Details for an existing Email Template by clicking an Email Template in the list, and then want to create a new Email Template, you must click the New button that displays above and below the Details.
Step 3	k the \$ bled.	Save button. The Email Template is added to the database, and all buttons and tabs in the Email Template Details are

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.

mail Template Details:	stonebranch-emailtemplate-01					_	
			🔚 Update	🕼 Delete	S Refresh	X Clos	e
Email Template 🛛 Ve	rsions						
- Details							1
Template Name :	stonebranch-emailtemplate-01 Version :	1					
Email Connection :	stonebranch-emailconnection-01					♥ 13	
Reply-To :							
To :	stonebranch@stonebranch.com						
Cc:							
Bcc :							
Subject :							
Body :							
\Bigg Update	🗊 Delete 🛛 🕒 Refresh 🛛 🗱 Close						

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.
Email Connection	Required; name of an Email connection defined via the Email Connection Details. An email connection specifies information about an email server. Enter the name of an existing Email connection, select an Email Connection from the drop-down list of all existing Email Connections, or click the Details icon to create an Email Connection.

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.
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.
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 Email Template Details that let you perform various actions.
Save	Saves a new Email Template record in the Controller database.
Update	Saves updates to the record.
New	Displays empty (except for default values) Details for creating a new 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 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.
Versions tab	Stores copies of all previous versions of the current record. See Record Versioning.

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.

Creating an Email Connection

Dashboards 🖾 Email Connections 🖾						
✓ 5 Email Connections	Custom Filter	None		👻 🧒 F	ilter 🔽 G	o To 🖄 New 🍣
Connection Name A	Outgoing Mail Server (SMTP)	SMTP Port	Email Address U	ser Name	Updated By	Updated
stonebranch-emailconnection-01	server 1	25	stonebranch@stonebranch.com		ops.admin	2014-06-13 15:30:39 -040
stonebranch-emailconnection-02	server 1	25	stonebranch@stonebranch.com		ops.admin	2014-06-13 15:30:45 -040
stonebranch-emailconnection-03	server 1	25	stonebranch@stonebranch.com		ops.admin	2014-06-13 15:30:48 -040
stonebranch-emailconnection-04	server 1	25	stonebranch@stonebranch.com		ops.admin	2014-06-13 15:30:54 -040
stonebranch-emailconnection-05	server 1	25	stonebranch@stonebranch.com		ops.admin	2014-06-13 15:30:59 -040
4		111				
ℓ ✓ Email Connection Details		111			Save 🥅 N	ew 📷 Test Connection
	15	111			Save 📃 N	ew 🧊 Test Connection
✓ Email Connection Details	15			F	Save 📃 Ni	ew 🕞 Test Connection
Email Connection Details Email Connection Email Tasks Version	15	111			Save 📃 N	ew 🕞 Test Connection
Email Connection Details Email Connection Email Tasks Version Details Connection Name : Outgoing Mail	15	111		F	Save 📃 N	ew 🕞 Test Connection
Email Connection Details Email Connection	15	191		Ţ	Save 📃 N	ew 🕞 Test Connection
	15	m		F	Save 📃 N	
Email Connection Details Email Connection Details Connection Name : Outgoing Mail Server (SMTP) :	15	m			Save 📃 N	

Step 2	• R • D	ect Details for a new Email Connection, using the field descriptions below as a guide. equired fields display in boldface . efault values for fields, if available, display automatically. more of the Details fields on the screen, you can temporarily hide the list.
	۸	Note If you view Email Connection Details for an existing Email Connection by clicking an Email Connection in the list, and then want to create a new Email Connection, you must click the New button that displays above and below the Details.
Step 3	k the S bled.	Save button. The Email Connection is added to the database, and all buttons and tabs in the Email Connection Details are

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	s: stonebranch-emailconnection-01	
	📳 Update 😼 Test Connection 🏥 Delete 🔄 Refresh 🗧	K Close
Email Connection	Email Tasks Versions	
Details		
Connection Name :	stonebranch-emailconnection-01 Version : 1	
Outgoing Mail Server (SMTP) :	server 1	
SMTP Port :		
Enable SSL :		
Enable STARTTLS :		
Email Address :	stonebranch@stonebranch.com	
Authentication Required :		
Use for System Notifications :		
🔛 Update	🖥 Test Connection 🛛 🎁 Delete 🛛 🕞 Refresh 🛛 🗱 Close	

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.
Outgoing Mail Server (SMTP)	Name or IP address of the outgoing email server.
SMTP Port	Port on the machine where the email server resides.

Enable SSL	Enables SSL connectivity for your SMTP 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	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 Req'd	If enabled, User Name and Password are required.
User Name	If Authentication Req'd is enabled; user name that the Controller will use to connect to the server.
Password	If Authentication Req'd is enabled; password that the Controller will use to connect to the server.
Use for System Notifications	Indicates whether or not this Email Connection is to be used for system notifications.
	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.
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.
Update	Saves updates to the record.
New	Displays empty (except for default values) Details for creating a new Email Connection.
Test Connection	After saving the record to the database, click Test Connection to run a connection test.
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 Tasks	Provides a list of tasks that use this email server.
Versions	Stores copies of all previous versions of the current record. See Record Versioning.

Database Connections

- Overview
- Creating a Database Connection
- Database 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.

Creating a Database Connection

atabase Connections 🔝								
5 Database Connections				Custom	Filter None		👻 🦁 Filter	. 🔯 Go To 😽 New ಿ
Connection Name *		Database Type	Description	Connection URL	Driver	Credentials	Updated By	Updated
stonebranch-database	connection-01	MySQL		jdbc:mysqt:// <server>:<port330< td=""><td>06>/<database> com.mysql.jdbc.l</database></td><td>Driver</td><td>stonebranch-user-01</td><td>2014-06-13 15:32:24 -0400</td></port330<></server>	06>/ <database> com.mysql.jdbc.l</database>	Driver	stonebranch-user-01	2014-06-13 15:32:24 -0400
stonebranch-database	connection-02	MySQL		jdbc:mysql:// <server>:<port330< td=""><td>06>/<database> com.mysql.jdbc.l</database></td><td>Driver</td><td>stonebranch-user-02</td><td>2014-06-13 15:32:32 -0400</td></port330<></server>	06>/ <database> com.mysql.jdbc.l</database>	Driver	stonebranch-user-02	2014-06-13 15:32:32 -0400
stonebranch-database	connection-03	MySQL		jdbc:mysql:// <server>:<port330< td=""><td>06>/<database> com.mysql.jdbc.l</database></td><td>Driver</td><td>stonebranch-user-03</td><td>2014-06-13 15:32:36 -0400</td></port330<></server>	06>/ <database> com.mysql.jdbc.l</database>	Driver	stonebranch-user-03	2014-06-13 15:32:36 -0400
stonebranch-database	connection-04	MySQL		jdbc:mysql:// <server>:<port330< td=""><td>16>/<database> com.mysql.jdbc.l</database></td><td>Driver</td><td>stonebranch-user-04</td><td>2014-06-13 15:32:39 -0400</td></port330<></server>	16>/ <database> com.mysql.jdbc.l</database>	Driver	stonebranch-user-04	2014-06-13 15:32:39 -0400
stonebranch-database	connection-05	MySQL		jdbc:mysql:// <server>:<port330< td=""><td>06>/<database> com.mysql.jdbc.l</database></td><td>Driver</td><td>stonebranch-user-05</td><td>2014-06-13 15:32:43 -0400</td></port330<></server>	06>/ <database> com.mysql.jdbc.l</database>	Driver	stonebranch-user-05	2014-06-13 15:32:43 -0400
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Database Connection		 Stored Procedure 	Taska 🖉 🔍 Version	75			R Save	New Great Connection
Database Connection	SQL Tasks	 Stored Procedure 	Taska 🗍 🖲 Version	ns	Varsion -	4	R Save	🗖 New 🥪 Test Connection
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Database Connection Details Connection Nam Description	SQL Tasks	Stored Procedure	Tasks 👔 🔍 Version			1	Save	
Database Connection — Details — Connection Nam — Description — Database Typ	SQL Tasks			na 	Version :	1	📆 Save	Test Connection
Database Connection — Details — Connection Nam — Description — Database Typ — Connection UR	SQL Tasks	<server>:<port3306< td=""><td></td><td></td><td></td><td>1</td><td>Save</td><td></td></port3306<></server>				1	Save	
Database Connection Details Connection Nam Descriptic Database Typ Connection UR Drive	SOL Tasks ine : mr : mr : MySQL RL : jdbc:mysql.j/ er : Com.mysql.jc	<server>:<port3306< td=""><td></td><td></td><td></td><td>1</td><td>Fr Save</td><td></td></port3306<></server>				1	Fr Save	
Database Connection — Details — Connection Nam — Description — Database Typ — Connection UR	SOL Tasks ine : mr : mr : MySQL RL : jdbc:mysql.j/ er : Com.mysql.jc	<server>:<port3306< td=""><td></td><td></td><td></td><td>1</td><td>T Save</td><td></td></port3306<></server>				1	T Save	

Step 2	• R • D	ect Details for a new Database Connection, using the field descriptions below as a guide. equired fields display in boldface . efault values for fields, if available, display automatically. more of the Details fields on the screen, you can temporarily hide the list.
	۸	Note If you view Database Connection Details for an existing Database Connection by clicking a Database Connection in the list, and then want to create a new Database Connection, you must click the New button that displays above and below the Details.
Step 3		Save button. The Database Connection is added to the database, and all buttons and tabs in the Database Connection e enabled.

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.

abase Connection De	stails: stonebranch-databaseconnection-01	_)[□
	🔚 Update 😽 Test Connection 🎲 Delete 🔄 Refresh 💥	Clos
atabase Connection	SQL Tasks Stored Procedure Tasks Versions	
Details		
Connection Name :	stonebranch-databaseconnection-01 Version : 1	
Description :		
Database Type :	MySQL Credentials :	
Connection URL :	jdbc:mysqt:// <server>:<port3306>/<database></database></port3306></server>	
Driver :	com.mysql.jdbc.Driver	
Maximum Rows :	100	
🗐 Update	Test Connection 🕼 Delete 🕞 Refresh 🗱 Close	
🔚 Update 🔓	Test Connection	

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	Optional. Description of the database.

Database Type	Type of database.
	Options:
	 MySQL MS SQL Server Oracle DB2 Sybase SQL Anywhere 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 \$TOMCAT_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 under which an Agent runs this task. These credentials override any credentials provided in the Agent resource definition for any Agent running this task.
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
Driver	Name of the JDBC driver.
Maximum Rows	If necessary, specifies a limit to the number of rows you want returned by the SQL statement.
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.
Update	Saves updates to the record.
New	Displays empty (except for default values) Details for creating a new Database Connection.
Test Connection	After saving the record to the database, click Test Connection to run a connection test.
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.

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

× ;	5 SAP Connections					Custom Filt	ter None		-	🖌 🦁 Filter 🔯 🧕	20 To 🔯 New 🍣
	Connection Name *	Connection Type	SAP ASHOST	SAP Client	SAP GWHOST	SAP GWSERV	SAP Instance Number	Message Server	System ID	Updated By	Updated
12	stonebranch-sapconnection-01	Specific Application Server	host 1	client 1			instance 1			stonebranch-user-01	2014-06-13 15:34:05 -040
12	stonebranch-sapconnection-02	Specific Application Server	host 1	client 1			instance 1			stonebranch-user-02	2014-06-13 15:34:12 -040
13	stonebranch-sapconnection-03			client 1			instance 1			stonebranch-user-03	2014-06-13 15:34:15 -040
	stonebranch-sapconnection-04			client 1			instance 1			stonebranch-user-04	2014-06-13 15:34:45 -040
17	stonebranch-sapconnection-05	Specific Application Server	host 1	client 1			instance 1			stonebranch-user-05	2014-06-13 15:34:49 -040
	SAP Connection Details	s) © Versions				m					Save 🖱 New
v s		Versions				m					1
~ S	SAP Connection SAP Tasks	s Versions				11	Version :	1			1
~ S	SAP Connection SAP Tasks Details Connection Name :					m	Version :	1			1
~ S	AP Connection SAP Tasks - Details Connection Name : Connection Type : Spe	s Versions		×		m	Version :	1			1
~ S	AP Connection SAP Tasks Connection Name : Connection Type : Spe SAP ASHOST :			×				1			1
~ S	AP Connection SAP Tasks Details Connection Name : Connection Type : Spe SAP ASHOST : SAP Client :			×			nstance Number :	1			1
v s	AP Connection SAP Tasks Connection Name : Connection Type : Spe SAP ASHOST :			×.				1			1

Step 2	 2 Enter / select Details for a new SAP Connection, using the field descriptions below as a guide. Required fields display in boldface. Default values for fields, if available, display automatically. To display more of the Details fields on the screen, you can temporarily hide the list. 					
		۸	Note If you view SAP Connection Details for an existing SAP Connection by clicking an SAP Connection in the list, and then want to create a new SAP Connection, you must click the New button that displays above and below the Details.			
Step 3		k the S bled.	Save button. The SAP Connection is added to the database, and all buttons and tabs in the SAP Connection Details are			

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-sapconnection-01						
			📳 Update	🅼 Delete	S Refresh	💥 Clos	e
SAP Connection	SAP Tasks Versions						_
Details							4
Connection Name :	stonebranch-sapconnection-01	Version : 1					
Connection Type :	Specific Application Server						
SAP ASHOST :	host 1						
SAP Client :	client 1	SAP Instance Number : instance 1					
SAP GWHOST :		SAP GWSERV :					
Update	🗊 Delete 🛛 😫 Refresh 🛛 🗱 Close						-

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.
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.
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.
Update	Saves updates to the record.
New	Displays empty (except for default values) Details for creating a new SAP Connection.
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.

SNMP Managers

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    Overview

    Creating an SNMP Manager

        • SNMP Manager Details

    SNMP Manager Details Field Descriptions

• MIB File
        • MIB and SNMP Protocol

    MIB File Location
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Overview

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

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.

A Note

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

then want to create a new SNMP Manager, you must click the New button that displays above and below the	Menager Hune Menager Address Menager Fort Updated by Updated by If the detection description are of 0 1234 10 selection description are of 0 2014.60.113 5321.400 If the detection description are of 0 1234 10 selection description are of 0 2014.60.113 5321.400 If the detection description are of 0 1234 10 selection description are of 0 2014.60.113 5321.400 If the detection description are of 0 1234 10 selection description are of 0 2014.60.113 5321.400 If the detection description are of 0 1234 10 selection description are of 0 2014.60.113 5321.400 If the detection description are of 0 1234 10 selection description are of 0 2014.60.113 5324.200 If the detection description are of 0 1234 102 selection description are of 0 2014.60.113 5324.200 If the detection description are of 0 1234 102 selection description are of 0 2014.60.113 534.200 If the detection description are of 0 1234 102 selection description are of 0 2014.60.113 534.200 If the detection description are of 0 1234 selection description are of 0 1004.000<	Manager Markes Manager Net Manager Net <th>State of the second data water of the se</th> <th>SNMP Manager</th> <th>rs 🗵</th> <th></th> <th></th> <th></th> <th></th>	State of the second data water of the se	SNMP Manager	rs 🗵				
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Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. Calipsi and the series of the Details for a new SNMP Manager, you can temporarily hide the list. Note If you were SNMP Manager Details for an existing SNMP Manager by clicking an SNMP Manager in the list, ar hyport were shown and the list.	Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. • Required fields display in boldface . • Default values for fields, if available, display automatically. To display more of the Details fields on the screen, you can temporarily hide the list. More Manager Details You wonth of the Streen, you can temporarily hide the list.	Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. • Required fields display in boldface. • Default values for fields, if available, display automatically. To display more of the Details fields on the screen, you can temporarily hide the list.	Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. • Required fields display in boldface . • Default values for fields, if available, display automatically. To display more of the Details fields on the screen, you can temporarily hide the list. • More NNMP Manager Details for an existing SNMP Manager by clicking an SNMP Manager in the list, and the new SNMP Manager. You must click the New button that displays above and below the Details.				Manager Port Updated By		-
Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. Collapse of the Details fields on the screen, you can temporarily hide the list. Note If you wine SNMP Manager Details for an existing SNMP Manager by clicking an SNMP Manager in the list, ar If you wine SNMP Manager Details for an existing SNMP Manager by clicking an SNMP Manager in the list, ar	State decision of the second state of the	Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. I Required fields display in boldface . Default values for fields, if available, display automatically. To display more of the Details fields on the screen, you can temporarily hide the list. More manager of the Details for an ew SNMP Manager Details for an existing SNMP Manager by clicking an SNMP Manager in the list, an even work of the web ution that displays above and below the screen of the NMP Manager in the list, and in work SNMP Manager. You must click the New button that displays above and below the screen of the NMP Manager in the list, and the web ution that displays above and below the screen of the NMP Manager in the list, and the web ution that displays above and below the screen of the NMP Manager in the list, and the web ution that displays above and below the screen of the NMP Manager in the list, and the web ution that displays above and below the screen of the NMP Manager in the list.	Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. • Required fields display in boldface. • Default values for fields, if available, display automatically. To display more of the Details fields on the screen, you can temporarily hide the list. Man ger Nore Note It you will wonth on the screen, you can temporarily hide the list.			1.2.3.4	162 stonebranch-user-	01 2014-06-13 15:35:21	1 -0400
Interference amprovage-04 12.24 102 attraction-sect-04 2014-06-13 15.35 2-0400 Image: Database 12.24 102 attraction-sect-04 2014-06-13 15.35 2-0400 Image: Database Image: Database Image: Database 2014-06-13 15.35 42-0400 Image: Database 2014-06-13 15.35 42-0400 Image: Database Image:	Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. • Required fields display in boldface . • Required fields display in boldface . • Default values for fields, if available, display automatically. To display more of the Details for an existing SNMP Manager by clicking an SNMP Manager in the list, ar fixed wave SNMP Manager Details for an existing SNMP Manager by clicking an SNMP Manager in the list, ar fixed wave SNMP Manager Details for an existing SNMP Manager, you must click the New button that displays above and below the	in undersach-ammywanager 04 1224 1224 102 atometerach-ammywanager 05 1224 102 atometerach-ammywanager 05 1224 102 atometerach-ammywanager 05 2014-06-13 15:35 42, 4400 Interview of the second of t	Enter / select Details for a new SNMP Manager, using the field descriptions below as a guide. • Required fields display in boldface . • Default values for fields, if available, display automatically. To display more of the Details fields on the screen, you can temporarily hide the list. • Ote If we shall be the screen a new SNMP Manager Details for an existing SNMP Manager by clicking an SNMP Manager in the list, ar the want to create a new SNMP Manager, you must click the New button that displays above and below the Details.	stonebrar	nch-snmpmanager-02	1.2.3.4	162 stonebranch-user-	02 2014-06-13 15:35:30	0 -0400
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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.

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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.
Manager Address	Name or IP address of the SNMP Manager.
Manager Port	Port used by the SNMP Manager.
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.
Update	Saves updates to the record.
New	Displays empty (except for default values) Details for creating a new SNMP Manager.
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.

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	