



**stonebranch**

Universal Agent 7.4.x

Universal Controller for Agent Management

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# Universal Controller for Agent Management

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## Overview

Starting with Universal Agent 6.9.0.0, customers using Universal Agents with 3rd-party scheduling solutions have the option to implement a [central license manager](#).

This central license management function can be implemented via a Universal Controller for Agent Management (UCAM) deployment, which is a special version of [Universal Controller](#) configured to provide Agent Management functions.

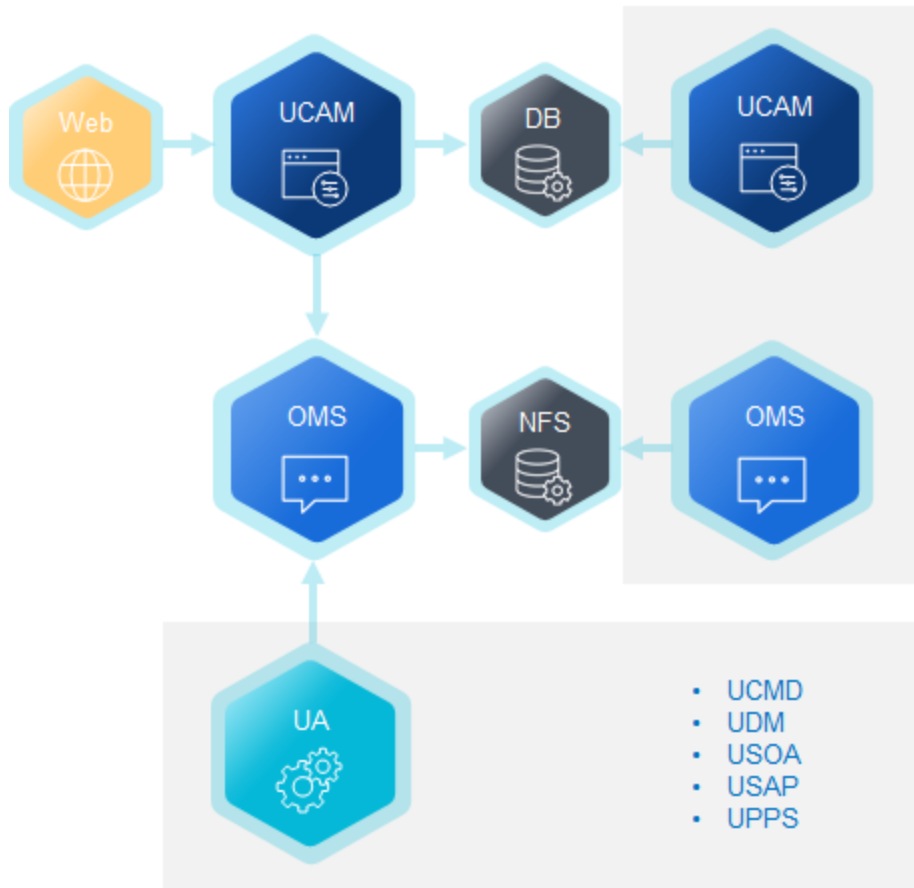
UCAM provides the following functionality:

1. Implements a single license key per environment (Production or Non-Production).
2. Provides one place to apply and manage licensing for all Universal Agent components (Universal Command, Universal Data Mover, Universal Connector for SOA, Universal Connector for SAP, and Universal Connector for Peoplesoft).
3. The License key is defined to UCAM and is distributed to each Universal Agent when the Agent starts and registers with UCAM via an OMS server.
4. Registered Agent status is tracked by UCAM and displayed in a customizable dashboard.

To take advantage of the central license management, your Agents must be at version 6.9.0.0 or higher.

UCAM can be downloaded from the Universal Agent / Universal Data Mover section of Software Downloads in the Stonebranch [Customer Portal](#).

## Optional HA Configuration



## Installation

### Installation Requirements for UCAM

UCAM, which can be installed on a Linux or Windows server, requires the following:

Apache Tomcat	8.5 or 9.0
Java JRE	8.0 or 11.0
Relation Database	<ul style="list-style-type: none"><li>• MySql</li><li>• Microsoft SQL Server</li><li>• Oracle</li></ul>
Database space	200MB
Memoery	2GB
Disk space	4GB

You also will need to deploy at least one OMS (Universal Message Server).

### Installation Steps Summary

Step	Description	Detailed Information
1	Install UCAM Prerequisites.	<a href="#">Installing Universal Controller Prerequisites</a>
2	Download the platform-specific UCAM Distribution File.	<a href="#">Stonebranch Customer Portal</a>
3	Unpack the UCAM Distribution File.	<a href="#">Unpack the Universal Controller Distribution File</a>
4	Install UCAM using the <code>--agentonly true</code> installation option.	<a href="#">Install the Controller</a>
5	Deploy UCAM.	<a href="#">Deploy the Controller</a>
6	Verify UCAM.	<a href="#">Verify the Installation</a>
7	Apply your Universal Agent License Key.	<a href="#">Apply the License Key</a>
8	Set-up and Configure OMS.	<a href="#">OMS Setup and Configuration</a>
9	Connect Universal Agents to UCAM.	<a href="#">Connect Universal Agents to UCAM</a>
10	Optional HA Configuration.	<a href="#">Optional HA Configuration</a>
11	Optional LDAP / AD or SSO configuration.	<ul style="list-style-type: none"> <li>• <a href="#">LDAP / AD Settings</a></li> <li>• <a href="#">Single Sign-On Settings</a></li> </ul>
12	Configure System Notifications.	<a href="#">Configure System Notifications</a>

## OMS Set-Up and Configuration

The OMS component handles communication to and from UCAM and your Universal Agents. As with the UCAM application itself, this can optionally be configured in an [HA \(High Availability\) configuration](#).

OMS is a components of both Linux and Windows Agents and already is installed; it just needs to be enabled and configured to meet your needs.

You can designate one or more existing Universal Agent deployments as an OMS server (each of which can be HA, if desired), or you can choose to deploy dedicated Universal Agents as OMS-only servers. OMS-only servers will not be configured to consume a UA license and cannot execute or receive any component workloads (Universal Command, Universal Data Mover, Universal Connector for SOA, Universal Connector for SAP, or Universal Connector for Peoplesoft).

### OMS Server Automatic Start-up

1. For an existing Universal Agent installation, you will need to configure the [OMS Server component definition](#) to specify **autostart yes** and **restart yes**. You also will need to restart Universal Agent after making these component configuration changes.
2. To install a new OMS-only server, make sure to configure OMS to automatically start and UAG *not* to automatically start. By not starting UAG, this OMS-only server will not register with UCAM and will not consume one of your Agent Licenses.



#### Note

The OMS server receives inbound connections from UCAM and Universal Agents on port 7878 (default configuration). Make sure you allow connections to OMS on this port.

For more information on OMS set-up and configuration, see the [Universal Message Service \(OMS\) 7.3.x Reference Guide](#).

### Configure OMS in UCAM

Once you have one or more active OMS servers or OMS HA clusters, they need to be defined to UCAM. See [Creating OMS Server Records](#) for more detailed information.

### Connect Universal Agents to UCAM

Universal Agents must be configured to register with UCAM in order to receive their license. The UAGS (Universal Agent Server) component of Universal Agent connects to an OMS in order to communicate with UCAM. The UAGS `OMS_SERVERS` option must be configured to connect to an OMS or OMS HA Cluster.

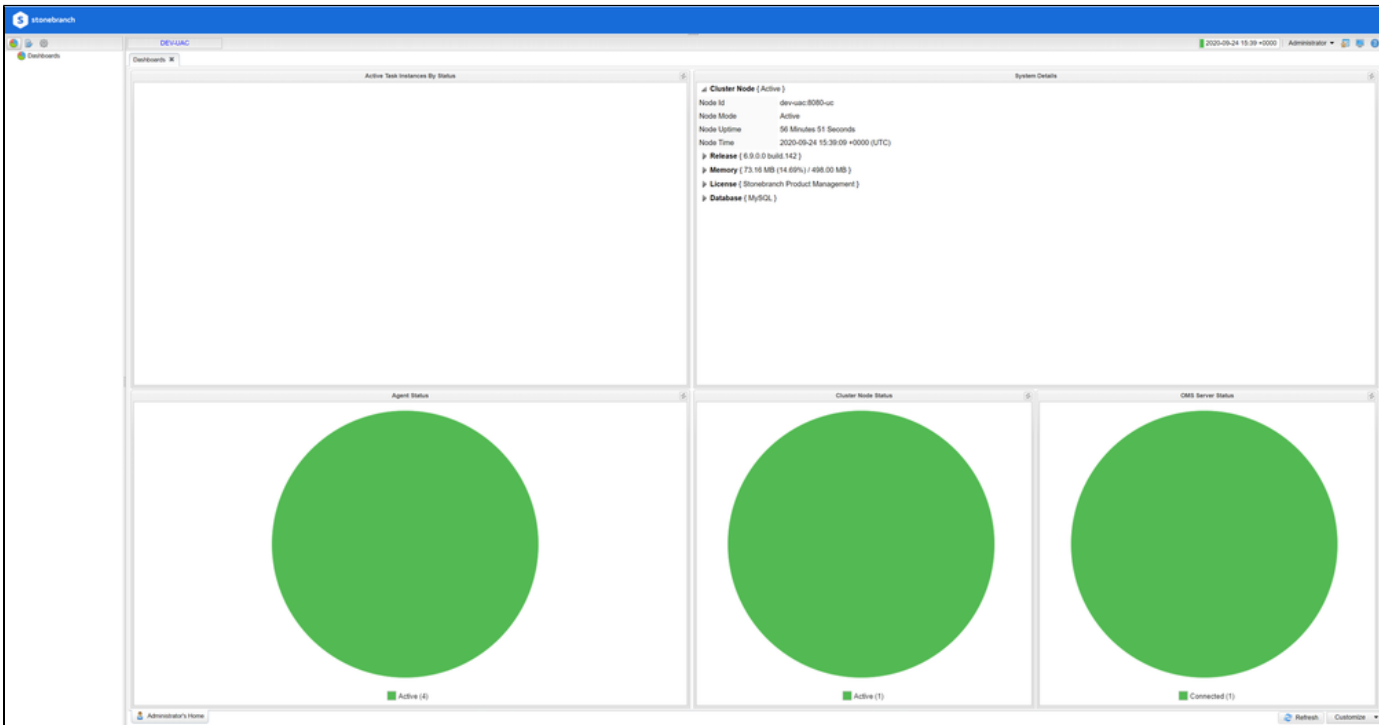
### Optional HA Configuration

For UCAM, you can simply install and configure a second UCAM instance (Cluster Node) to connect to the same database as the primary UCAM Cluster Node; see [Adding a Cluster Node](#).

For OMS, you will need to provide an NFS (Network File Share) for each OMS HA Cluster; see [OMS Server High Availability](#) for more information.

## Getting Started with UCAM

When you first logon to a vanilla UCAM installation, you will be presented with the following screen:

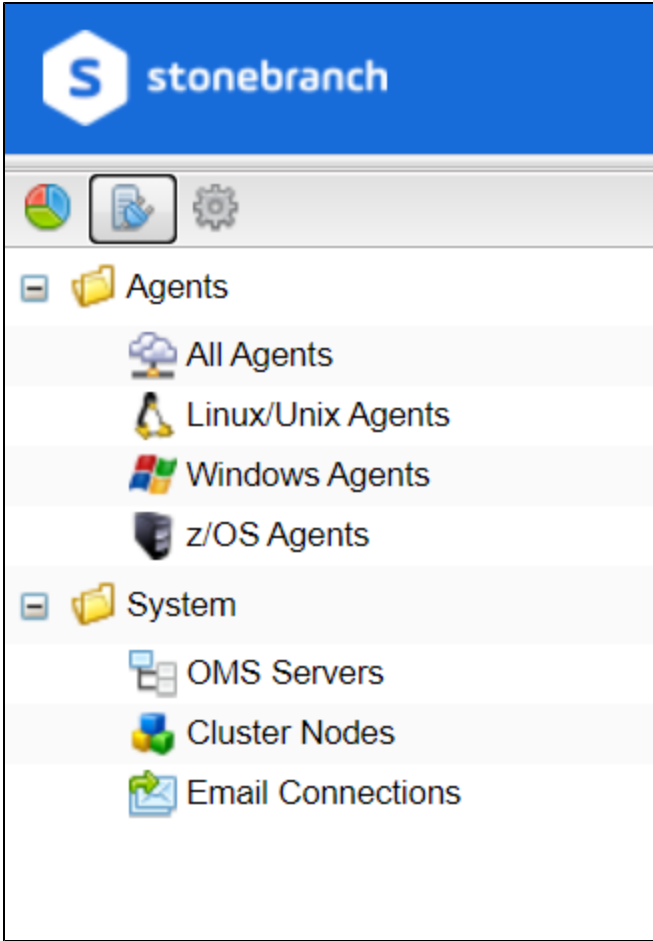


For useful information about the user interface navigation and concepts, see [User Interface Overview](#).

### Displaying Universal Agent Status

All Universal Agents will register automatically with UCAM when configured and started as described previously.

On the Agents & Connections navigation pane of the Controller navigator, you can, at any time, see the status and the details of your Universal Agents.



All Universal Agents can be displayed, or the Universal Agents display can be grouped by the operating system they run on.

Agent Name *	Host Name	Type	Agent Id	Version	Last Heartbeat	Suspended	Status	Started Date	Updated By	Updated
dev-oms	dev-oms	Linux/Unix	dev-ua0	6.8.0.0	2020-09-24 15:52:27 +0000	No	Active	2020-09-24 14:39:59 +0000	ops.system	2020-09-24 15:52:27 +0000
dev-ua1	dev-ua1	Linux/Unix	dev-ua1	6.8.0.0	2020-09-24 15:52:22 +0000	No	Active	2020-09-24 14:50:15 +0000	ops.system	2020-09-24 15:52:22 +0000
dev-ua2	dev-ua2	Linux/Unix	dev-ua2	6.8.0.0	2020-09-24 15:52:27 +0000	No	Active	2020-09-24 14:39:59 +0000	ops.system	2020-09-24 15:52:27 +0000
SBU508	SBU508	Windows	dev-ua1	6.9.0.0	2020-09-24 15:53:00 +0000	No	Active	2020-09-24 14:39:59 +0000	ops.system	2020-09-24 15:53:00 +0000

The above display shows the status Information that this Agent currently has (Active / Offline) on which Alerts, as described in the following section, can be based.

By clicking the Icon next to the Agent name, a Details screen will open showing the details of the selected Agent

Linux/Unix Agent Details: dev-ua1

Update Suspend Agent Delete Refresh Close

Linux/Unix Agent Notifications

**Configuration Details**

Agent Name : dev-ua1 Agent Id : dev-ua1

Member of Business Services :

Status : Active Suspended :

Log Level : Informational Retrieve Output Prohibited :

Heartbeat Interval : 120 Heartbeat Grace Period : 60

Task Execution Limit : Unlimited

Credentials :

**Installation Details**

Host Name : dev-ua1 Version : 6.8.0.0

IP Address : 172.23.0.2 Build Id : 1

Operating System : Linux Build Date : 2020-03-17 13:09:25 +0000

Operating System Release : x86\_64 4.19.76-linuxkit (#1 SMP Tue May 26 11:42:35 UTC 2020) CPU : GenuineIntel Intel(R) Core(TM) i7-8550U CPU @ 1.80GHz (2 C...

**System Details**

Started Date : 2020-09-24 14:50:18 +0000 PID : 43

Last Heartbeat : 2020-09-24 16:00:22 +0000 Jobs Run : 0

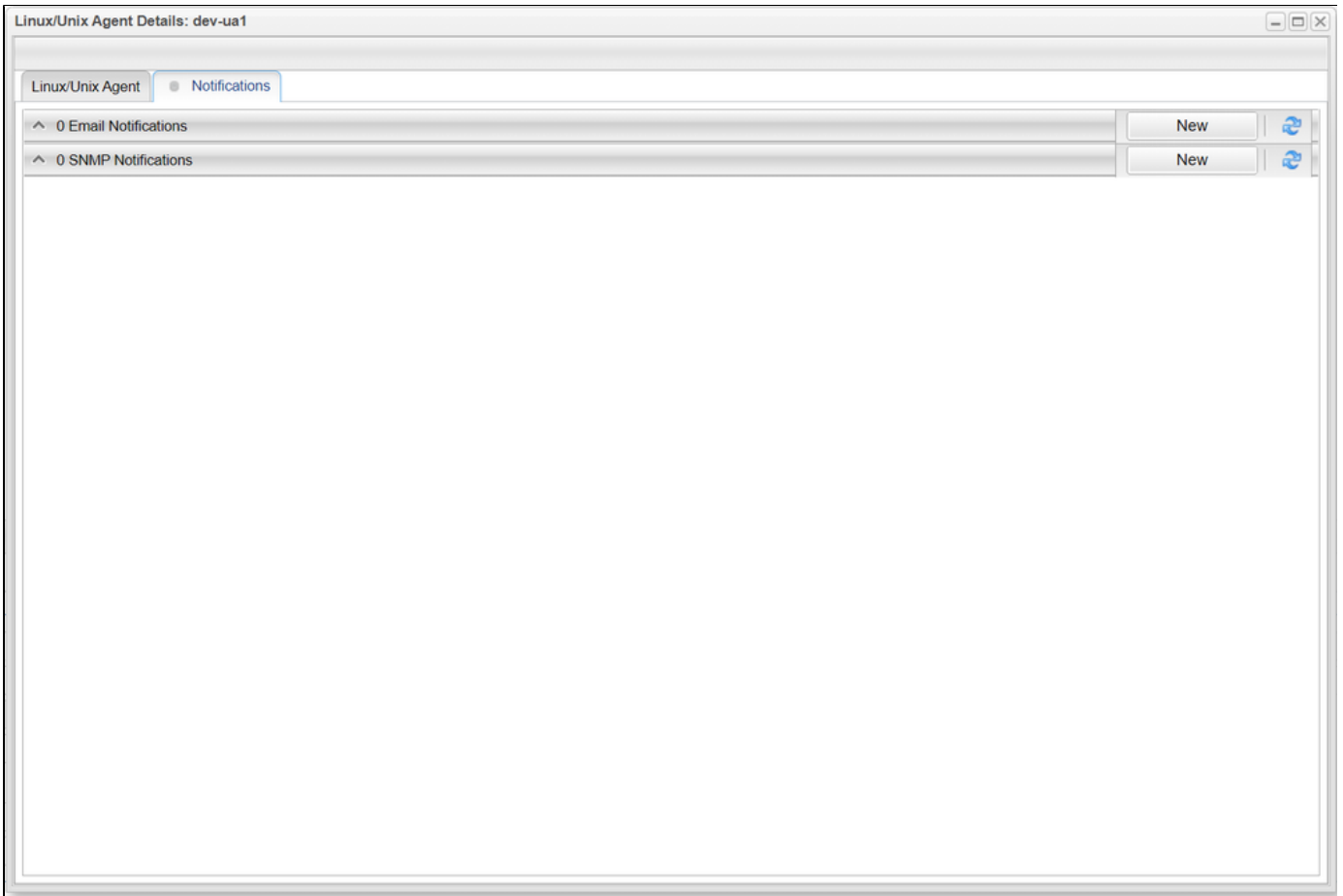
CPU Load : 10 Authentication Version : 2

OMS Server : dev-oms:7878

Update Suspend Agent Delete Refresh Close

### Configuring Universal Agent Alerts

From the Universal Agents details display (see above), you can manage (display, create, update, or delete) Email or SNMP Notifications from the **Notifications** tab .



To create an Email Notification, click **New** on the **Email Notifications** header.

**Email Notification Details** [minimize] [maximize] [close]

[Save] [Save & New] [Save & View] [Close]

Email Notification

Criteria

Status Options : [dropdown]

Details

Email Template : [dropdown] [dropdown] Email Connection : [dropdown] [dropdown]

Reply-To : [text area]

To : [text area]

Cc : [text area]

Bcc : [text area]

Subject : [text area]

Body : [text area]

[Save] [Save & New] [Save & View] [Close]

For details on specifying Universal Agent Email Notifications and the required Definitions, see [Agent Notifications](#), [Email Templates](#), and [Email Connections](#).