

# DVQattest<sup>®</sup> Agent

## MDM Deployment Guide for Jamf Pro

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# Contents

<b>Introduction</b> .....	<b>1</b>
<b>Deployment Prerequisites</b> .....	<b>1</b>
Push Certificates .....	1
Device Enrollment.....	1
<b>Uploading and Distributing the DVQattest Agent Package</b> .....	<b>2</b>
Uploading the Package File .....	2
Configuring and Uploading the Custom Script .....	2
Distributing the Package .....	4
<b>DVQattest Agent Configuration Settings</b> .....	<b>5</b>
Custom Script Configuration Parameters.....	5
Agent Name Template Syntax.....	6

## Introduction

This guide provides an overview of the steps required to deploy Telchemy's DVQattest® Agent on macOS devices using the Jamf Pro device management solution.

For detailed documentation on Jamf Pro and other Jamf product solutions, please visit <https://learn.jamf.com/>.

For more information on SQmediator, DVQattest and other Telchemy products, please visit [www.Telchemy.com](http://www.Telchemy.com).

## Deployment Prerequisites

Prerequisites for deploying DVQattest Agents through Jamf Pro include creating an Apple push certificate and enrolling devices to connect with the Jamf Pro server.

### Push Certificates

A push certificate is an encrypted file generated by Apple that establishes trust between a third-party service and Apple Push Notification service (APNs). To enable Jamf Pro to send push notifications to your managed iOS devices using APNs, you will need to generate a push certificate and upload it to Jamf Pro.

For detailed information and instructions for creating and uploading push certificates, please refer to Jamf's online documentation:

[https://learn.jamf.com/en-US/bundle/jamf-pro-documentation-current/page/Push\\_Certificates.html](https://learn.jamf.com/en-US/bundle/jamf-pro-documentation-current/page/Push_Certificates.html)

### Device Enrollment

Enrollment is required to establish a connection between each managed device and the Jamf Pro server. Jamf supports both automated and manual (user-initiated) device enrollment methods.

For more information on device enrollment options and configuration steps, please refer to Jamf's online documentation:

[https://learn.jamf.com/en-US/bundle/jamf-pro-documentation-current/page/Enrollment\\_into\\_Jamf\\_MDM.html](https://learn.jamf.com/en-US/bundle/jamf-pro-documentation-current/page/Enrollment_into_Jamf_MDM.html)

# Uploading and Distributing the DVQattest Agent Package

To deploy DVQattest Agents on your managed devices, you will need to upload the DVQattest Agent .pkg file to Jamf Pro, configure a custom script to run before package installation, and create a policy to install the package on each target device.

## Uploading the Package File

### 1. Log in to Jamf Pro:

Browse to your Jamf Pro server URL and log in to your Jamf Pro user account.

### 2. Navigate to Packages:

- a. Click **Computers**.
- b. Click **Settings** (gear icon) in the top-right corner.
- c. Select **Computer Management**.
- d. Click **Packages**.

### 3. Upload the Package:

- a. Click **New**.
- b. Click **Choose File** and select the DVQattest Agent .pkg file.
- c. Click **Save**.

## Configuring and Uploading the Custom Script

### 1. Prepare the Script:

Create a custom script to apply configuration settings to the DVQattest Agent before installation. Some settings are mandatory while others are optional.

Required parameters include:

- Agent/Controller management domain name (**DomainName**)
- Agent/Controller management domain passphrase (**Passphrase**)
- Controller IP address or Fully Qualified Domain Name (**OutboundCtrlAddr**)

Optional parameters include:

- Agent name (**AgentName**)
- Agent description (**AgentDescription**)
- Organization ID (**OrganizationId**)
- Organization Group ID (**GroupId**)
- Controller port number (**OutboundCtrlPort**)

For details on these configuration settings, see [Custom Script Configuration Parameters](#).

An example DVQattest Agent custom script is shown below.

```
#!/bin/bash

# Define the plist file path
plist_path="/Library/Preferences/com.telchemy.dvqagent.prefpane.plist"

# Create the plist content
cat <<EOF > "$plist_path"
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN"
"http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
    <key>AgentDescription</key>
    <string>JAMF</string>
    <key>AgentName</key>
    <string>^^u^^s</string>
    <key>DomainName</key>
    <string>sqmedvmrpt01</string>
    <key>Passphrase</key>
    <string>sqmedvmrpt01</string>
    <key>GroupId</key>
    <string>realagents01</string>
    <key>OrganizationId</key>
    <string>realagents1</string>
    <key>OutboundCtrlAddr</key>
    <string>10.1.0.68</string>
    <key>OutboundCtrlPort</key>
    <string>40006</string>
</dict>
</plist>
EOF

echo "Plist file has been created at $plist_path"
```

## 2. Log in to Jamf Pro:

Browse to your Jamf Pro server URL and log in to your Jamf Pro user account.

## 3. Navigate to Scripts:

- a. Click **Computers**.
- b. Click **Settings** (gear icon) in the top-right corner.
- c. Select **Computer Management**.
- d. Click **Scripts**.

## 4. Upload the Script:

- a. Click **New**.
- b. Enter the script name and other details as needed.
- c. In the **Script** field, paste the contents of the custom script.
- d. Click **Save**.

## Distributing the Package

### 1. Log in to Jamf Pro:

Browse to your Jamf Pro server URL and log in to your Jamf Pro user account.

### 2. Navigate to Policies:

- a. Click **Computers**.
- b. Click **Settings** (gear icon) in the top-right corner.
- c. Select **Computer Management**.
- d. Click **Policies**.

### 3. Create a New Policy:

- a. Click **New**.
- b. Name the policy and configure the necessary triggers (e.g., recurring check-in).

### 4. Add the Package to the Policy:

- a. Under the **Packages** payload, click **Configure**.
- b. Select the DVQattest Agent .pkg file that you uploaded.

### 5. Add the Custom Script to the Policy:

- a. Under the **Scripts** payload, click **Configure**.
- b. Select the custom script for the DVQattest Agent.

### 6. Save and Deploy the Policy:

- a. Review the policy configuration.
- b. Click **Save** to deploy the policy.



- Test the package and script on a few devices before wide deployment.
- Monitor development logs for any issues.

# DVQattest Agent Configuration Settings

## Custom Script Configuration Parameters

The following table lists the various configuration settings that can be defined in the DVQattest Agent custom script.

Parameter	Description	Required	Notes
<b>AgentName</b>	The Agent display name. The name string can include template tokens that enable the Agent to construct its own name using various local identifiers. (See <a href="#">Agent Name Template Syntax</a> .)  If not defined, the Agent will assign itself a default name.		Max length: 64 characters Valid characters: <b>a-z A-Z 0-9 \$ * + ? ^ ! . = @ _   ~ - :</b>
<b>AgentDescription</b>	An optional description for the Agent.		Max length: 256 characters Valid characters: <b>a-z A-Z 0-9 \$ * + ? ^ ! . = @ _   ~ - : &lt;space&gt;</b>
<b>DomainName</b>	The Agent/Controller management domain name.  Management domains are defined in the SQmediator Reporter and shared across Controllers. To connect to a Controller, the Agent must be assigned a domain name and passphrase matching one of the defined management domains.  For more information on Agent/Controller management domains, please refer to the <i>SQmediator Reporter Administration Guide</i> .	✓	Length: 6-64 characters Valid characters: <b>a-z A-Z 0-9 \$ * + ? ^ ! . = @ _   ~ - :</b>
<b>Passphrase</b>	The Agent/Controller management domain passphrase.	✓	Length: 8-64 characters Valid characters: <b>a-z A-Z 0-9 # \$ * + ? ^ ! . = @ _   ~ - :</b>
<b>OrganizationId</b>	The Organization ID.  Organization ID and Group ID are optional settings used to automatically associate a DVQattest Agent with a particular resource group and pool license key when the Agent connects to an SQmediator Controller.  For more information on Organization ID and Group ID, please refer to the <i>SQmediator Reporter Administration Guide</i> .		Max length: 63 characters Valid characters: <b>a-z A-Z 0-9</b>

Parameter	Description	Required	Notes
<b>GroupID</b>	The Organization Group ID.		Max length: 63 characters Valid characters: <b>a-z A-Z 0-9</b>
<b>OutboundCtrlAddr</b>	The IP address or Fully Qualified Domain Name (FQDN) for the SQmediator Controller.	✓	
<b>OutboundCtrlPort</b>	The SQmediator Controller port number for incoming Agent connections.		Default <b>40006</b> .

## Agent Name Template Syntax

The **AgentName** string can optionally contain one or more template tokens in the format `^^<token>`, where `<token>` corresponds to one of the token codes listed in the table below. When an Agent is started, it will attempt to dynamically populate its name using the information represented by each token. Note that some information may not be available to the Agent.

Token	Description
a	Active Directory name
e	User email address
g	Last 8 characters of the host GUID
i	Organization Group ID
m	Machine name
n	Username portion of email address
o	Up to the first 8 characters of the Organization ID
p	Agent name prefix
s	2-character operating system code: <b>an</b> Android/Chromebook <b>lx</b> Linux <b>mc</b> macOS <b>wn</b> Windows
u	Username/identity

Tokens can optionally be separated by spaces, hyphens (-), forward slashes (/), backslashes (\), or underscores (\_). For example:

Template String	Example Agent Name
<code>^^o-^^s-^^g/^^u</code>	myOrgID-mc-489A26E7/exampleuser
<code>AcmeCorp_^^m-^^i_^^n</code>	AcmeCorp_myMac-myGroupID_emailusername



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DVQattest and SQmediator contain technology described in multiple patents and pending patent applications.