

Faronics Power Save Mac and the Casper Suite

Deploying, Managing, and Reporting on Faronics
Power Save Mac with the Casper Suite

Technical Paper
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FARONICS
POWERSAVEMAC™



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Introduction

Target Audience

This guide is designed for system administrators planning to administer Faronics Power Save Mac with the Casper Suite.

How to Use This Guide

This guide provides step-by-step instructions for deploying, managing, and reporting on Power Save with the Casper Suite. Be sure to review the information in the “Requirements” section before using these instructions.

Before using this guide, make sure you are familiar with the following Casper Suite-related concepts:

- Software installation and configuration
- Package and script management
- Policies
- Extension attributes
- Advanced computer searches
- Smart computer groups

For more information on these concepts, consult the *Casper Suite Administrator's Guide*, available at:

http://jamfsoftware.com/libraries/pdf/products/documentation/Casper_Suite_7.3_Documentation.pdf

This guide refers to processes that are specific to Faronics technology. If you are not familiar with Power Save concepts, you may want to have the *Faronics Power Save Mac User Guide* available for reference. This document is available at:

http://faronics.com/Faronics/Documents/PSM_Manual.pdf

Overview

The Casper Suite provides a solution for Mac administrators looking to deploy, manage, and report on Faronics Power Save Mac in their environment.

This technical paper explains the complete workflow.

Requirements

To deploy, manage, and report on Power Save with the Casper Suite, you must be running the Casper Suite v7.31 or later in your environment.

The following components are required to complete the instructions in this guide:

- Faronics Power Save Mac v3.0 or later
- Casper Admin application
- Access to the JAMF Software Server (JSS)
- Casper Suite Resource Kit, available at:

<http://www.jamfsoftware.com/downloads/ResourceKit.dmg>

Deploying Power Save

This section explains how to deploy Power Save with the Casper Suite.

Step 1: Customizing the Power Save Installer

The first step to deploying Power Save with the Casper Suite is to customize the Power Save Installer. This is done using the Power Save Assistant in the Power Save Installer media.

The Power Save Assistant lets you customize the installer by:

- Creating the Power Save administrator account
- Licensing the product
- Configuring Power Save settings prior to deployment

To customize the Power Save Installer:

1. Open the Power Save Installer media.
2. Open the Power Save Assistant.
3. Follow the onscreen instructions to customize the installer.
For detailed instructions on using the Power Save Assistant, see the *Faronics Power Save Mac User Guide*.

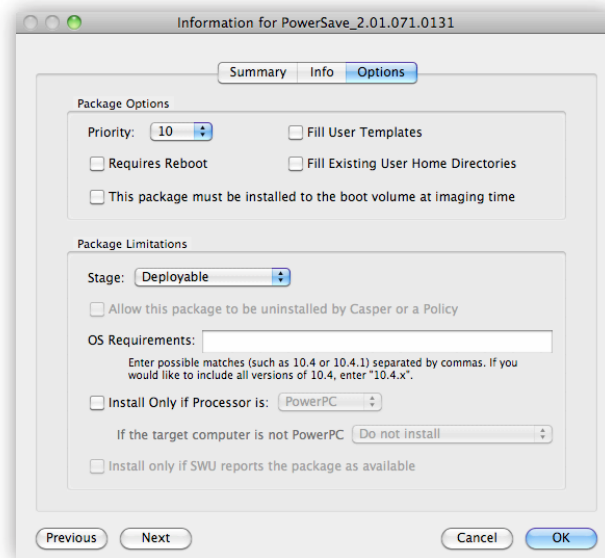


Step 2: Uploading the Power Save Installer

Before deploying the customized Power Save Installer, it must be uploaded to the JSS using the Casper Admin application.

To upload the Power Save Installer:

1. Open Casper Admin.
2. Drag the Power Save Installer into Casper Admin.
3. Select the installer package in the list and click the **Info** button in the toolbar.
4. Click the **Info** tab and assign the installer package to a category.
5. Configure additional options as needed and click the **OK** button.
6. Click the **Options** tab and assign a priority.
The default priority of 10 is recommended for install packages. For more information on priorities, see the "Managing Packages" section in the *Casper Suite Administrator's Guide*.
7. Select the **Requires Reboot** option.



8. If you are planning to deploy the package during the imaging process, select the **This package must be installed to the boot volume at imaging time** checkbox.
9. When Casper Admin is finished uploading the installer, save your changes by typing **Command + S** and quit the application.

Step 3: Deploying the Power Save Installer

The Power Save Installer can be deployed in several ways:

- Remotely, using a policy or Casper Remote
- During the imaging process
- Using the Self Service application

Deploying Power Save remotely or during the imaging process automatically updates client inventory in the JSS when the software is installed.

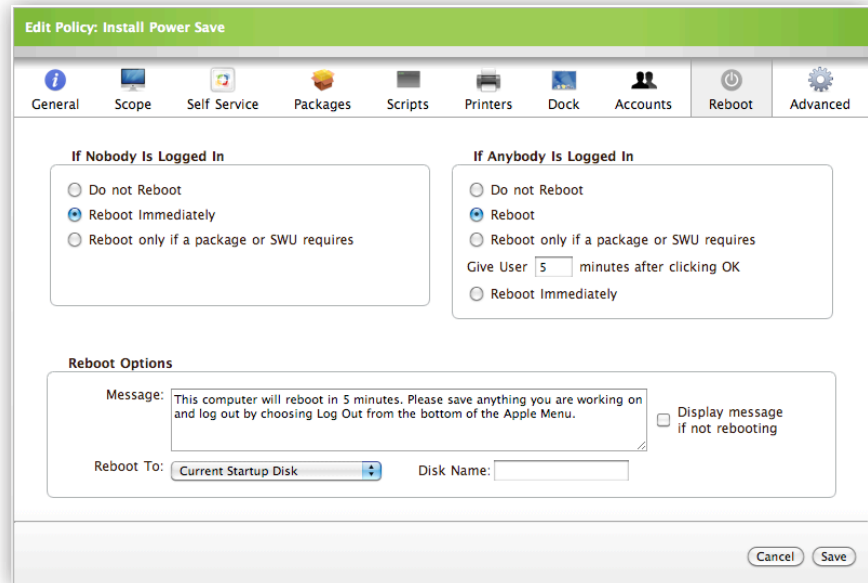
For more information on how to allow end users to install Power Save using the Self Service application, see the “Making Policies Available Through Self Service” section in the *Casper Suite Administrator’s Guide*.

Note: Since you customized the installer and provided a License Key, the installer is fully licensed and activated after being deployed with the Casper Suite.

To deploy Power Save remotely using a policy:

1. Log in to the JSS.
2. Click the **Management** tab.
3. Click the **Policies** link.
4. Click the **Create Policy** button in the toolbar.
5. Make sure the **Install or uninstall a package** option is selected and click the **Continue** button.
6. Follow the onscreen instructions to configure the rest of the policy.
7. Click the **Edit Manually** button.

8. Click the **Reboot** tab and configure the desired reboot options.



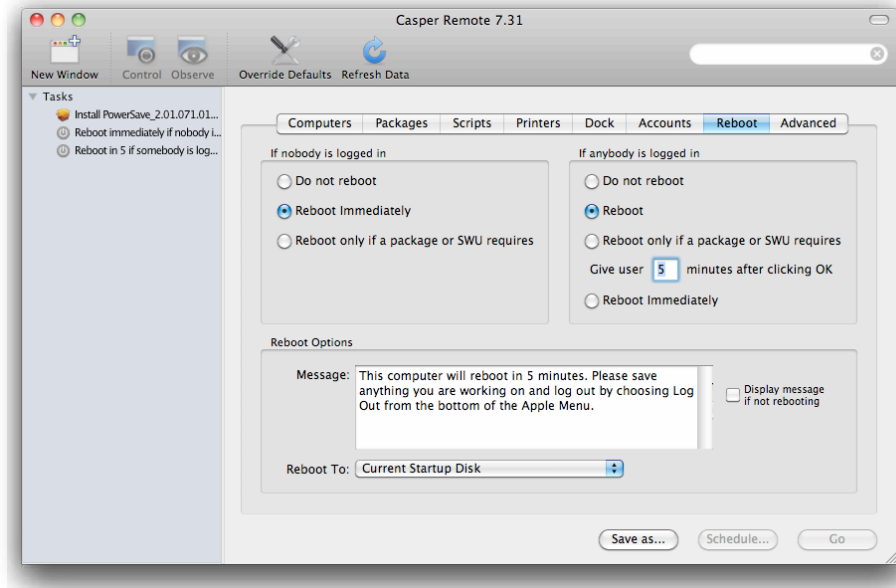
Since you selected the **Requires Reboot** option when you configured the installer package in Casper Admin, clients reboot automatically if no users are logged in. If users are logged in on the clients, a dialog box appears prompting the users to reboot. Clients reboot 5 minutes after the **OK** button in the dialog is clicked.

9. Click the **Save** button.

To deploy Power Save remotely using Casper Remote:

1. Open Casper Remote.
2. In the **Computers** list, select the checkbox next to each client on which you want to install Power Save.
3. Click the **Packages** tab.
4. In the **Packages** list, select the checkbox next to the Power Save Installer.

5. Click the **Reboot** tab and configure the desired reboot options.



Since you selected the **Requires Reboot** option when you configured the installer package in Casper Admin, clients reboot automatically if no users are logged in. If users are logged in on the clients, a dialog box appears prompting the users to reboot. Clients reboot 5 minutes after the **OK** button in the dialog is clicked.

6. Click the **Go** button.

To deploy the Power Save during imaging:

1. Open Casper Admin.
If you selected the **This package must be installed to the boot volume at imaging time** checkbox while uploading the installer to Casper Admin, it can be installed during the imaging process.
2. Drag the Power Save Installer from the list of packages to the imaging configuration in the sidebar.
3. Save your changes by typing **Command + S** and quit the application.
Casper Imaging automatically detects that the installer package requires a reboot and reboots the clients after Power Save is installed.

Managing Power Save

The Casper Suite Resource Kit contains scripts that allow you to perform the following management functions for Power Save after it has been deployed:

- Disable Power Save - `disablePowerSave.sh`
- Enable Power Save - `enablePowerSave.sh`
- Reconfigure Power Save - `configurePowerSave.sh`

Step 1: Customizing Power Save Scripts

Before running scripts to disable, enable, or reconfigure Power Save, customize the parameters that specify credentials for your Power Save administrator account. This is the account that you created when you customized the installer using the Power Save Assistant.

To customize a Power Save script:

1. Open the Casper Suite Resource Kit.
If you do not have the Casper Suite Resource Kit, you can download it at: <http://www.jamfsoftware.com/downloads/ResourceKit.dmg>
2. Navigate to Remote Management > Power Save and open the script you want to run.
3. Use the Text Edit or Terminal application to modify the following parameters:
 - `psUsername` – Username for the Power Save administrator account
 - `psPassword` – Password for the Power Save administrator account
4. Save your changes and quit the application.

Step 2: Running Power Save Scripts

The Casper Suite's policy framework allows you to run Power Save scripts on remote clients when they check in with the JSS.

To run a Power Save script:

1. Open Casper Admin.
2. Drag the script into Casper Admin

3. When Casper Admin is finished uploading the script, save your changes by typing **Command + Save** and quit the application.
4. Log in to the JSS.
5. Click the **Management** tab.
6. Click the **Policies** link.
7. Click the **Create Policy** button.
8. Select the **Run a script** option and click **Continue**.
9. Follow the onscreen instructions to configure the rest of the policy.

Reporting on Power Save

After Power Save is deployed, you can use the Casper Suite to report on the power management status of the software.

This section explains how to report on Power Save's power management status.

Step 1: Creating Extension Attributes

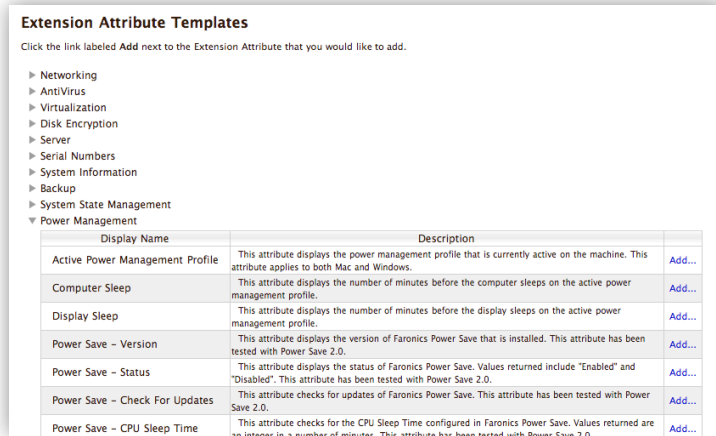
Creating extension attributes for Power Save allows you to collect power management status information from each client with Power Save installed. Once this information is collected, it can be used to generate reports.

Extension attribute templates for Power Save are built right into the Casper Suite, allowing you to create extension attributes quickly and easily.

To create extension attributes for Power Save:

1. Log in to the JSS.
2. Click the **Settings** tab.
3. Click the **Inventory Options** link.
4. Click the **Inventory Collection Preferences** link.
5. Click the **Extension Attributes** tab.
6. Click the **Add Extension Attribute From Template** link.

- Click the disclosure triangle next to **Power Management** and click the **Add** link across from one or all of the following attributes:
 - Power Save – Version
 - Power Save – Status
 - Power Save – Check for Updates
 - Power Save – CPU Sleep Time
 - Power Save – Display Sleep Time



- Specify credentials for the Power Save administrator account, and then click **OK**.
- Click the **Save** button.

Step 2: Updating Inventory

To generate accurate reports, the JSS must contain up-to-date inventory information for the clients with Power Save installed. Clients are configured to submit inventory reports to the JSS automatically on a set schedule. (You configured this schedule when you set up the JSS using the JSS Setup Assistant.) However, you can also generate inventory reports manually using Casper Remote.

To update inventory manually:

- Open Casper Remote.
- In the **Computers** list, select the checkbox next to each client on which Power Save is installed.
- Click the **Advanced** tab.
- Select the **Update Inventory** checkbox.
- Click the **Go** button.

Step 3: Viewing Power Management Status Information

Performing an advanced computer search for the clients with Power Save installed allows you to view power management status information across your environment. You can also save this search for future use.

Note: To view power management status information for a single client, perform a simple computer search and click the **Details** link across from the it in the results list.

To view power management status information for multiple clients:

1. Click the **Inventory** tab in the JSS.
2. Click the **Advanced Search** link.
3. Enter a name for your report, such as "Power Save Status".
4. Select the **Save this Report** checkbox.
5. Click the **Display Fields** tab.
6. Select the checkbox next to each attribute you want displayed in the report.
7. Click the **Search** button.

Step 4: Creating a Smart Computer Group

When you create a smart computer group, clients that return power management status information are automatically added to the group. This allows you to easily reference and track clients that have Power Save installed.

Administrators can be alerted by email whenever the membership of a smart computer group is updated or changed.

Note: If you want to generate email notifications, you must first configure an SMTP server in the JSS and make sure the JSS user you want to receive notifications has an account with email notification privileges. For more information on enabling email notifications, see the "Enabling Email Notifications" section in the *Casper Suite Administrator's Guide*.

Smart computer groups also allow you to quickly scope policies used to run Power Save scripts.

To create a smart computer group:

1. Click the **Management** tab in the JSS.
2. Click the **Smart Computer Groups** link.
3. Click the **Create Smart Group** button in the toolbar.
4. Enter a name for the smart computer group in the **Computer Group Name** field.
5. Click the **Add (+)** button next to **Extension Attributes Information** in the list of categories.
6. Click the link for the Power Save extension attribute on which you want to base your criteria.
The link you click in this step depends on which extension attribute(s) you created in the "Creating Extension Attributes" section of this guide.
7. Use the **Search Type** pop-up menu and **Criteria** text field to set a value for the criteria.

ComputerGroup Name:

Send Email Notification on Change:

Field	Search Type	Criteria	-	+
Computer Information				
				+
Location Information				
				+
Hardware Information				
				+
Storage Information				
				+
OS Configuration Information				
				+
Software Information				
				+
Purchasing Information				
				+
Receipts Information				
				+
Extension Attributes Information				
Power Save - Status	is	Enabled	-	+

Cancel Save

8. To send an email notification to an administrator when membership changes occur, select the **Send Email Notification on Change** option.
9. Click the **Save** button.

Useful Links on Related Topics

JAMF Software Links

For more information on processes related to the Casper Suite, see the *Casper Suite Administrator's Guide*, available at:

http://jamfsoftware.com/libraries/pdf/products/documentation/Casper_Suite_7.3_Documentation.pdf

The complete Casper Suite Resource Kit is available for download at:

<http://www.jamfsoftware.com/downloads/ResourceKit.dmg>

Faronics Links

For more information on Faronics Power Save Mac and customizing the Power Save Installer, see the *Faronics Power Save Mac User Guide*, available at:

http://faronics.com/Faronics/Documents/PSM_Manual.pdf