Using Casper MultiCast

Version 1.1

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JAMF software

Contents

Overview

By default, the Casper Imaging application performs installations over a unicast connection. Casper MutiCast was designed for administrators who want to perform installations over a multicast connection to maximize use of bandwidth.

To use Casper MultiCast you must

- run Casper MultiCast Server on the distribution points over which the session will be broadcast
- run a script that clients will use to reference the multicast connection

Requirements

- Mac OS X Server capable of running multicast Apple Software Restore (ASR)
- Network switches must be multicast capable
- IP address range to broadcast the multicast session

Concepts

Before you begin, make sure you are familiar with the following concepts:

- Uploading scripts with the Casper Suite
- Creating configurations with the Casper Suite
- Using the Autorun feature

Starting the Casper MultiCast Server

The Casper MultiCast Server application can be opened on the server that functions as a distribution point for imaging. It does not have to be launched on the JSS. For example, if you are imaging building A and building B, open the Casper MultiCast Server on each distribution point and create a script for each building.

To start the Casper MultiCast Server:

1. Open the Casper MultiCast Server application.
2. Choose a source image to multicast.

Note: Before starting Casper MultiCast Server, you must scan the source image for restore or the distribution point will stop broadcasting the image. The Disk Utility application can be used to scan the image for restore.

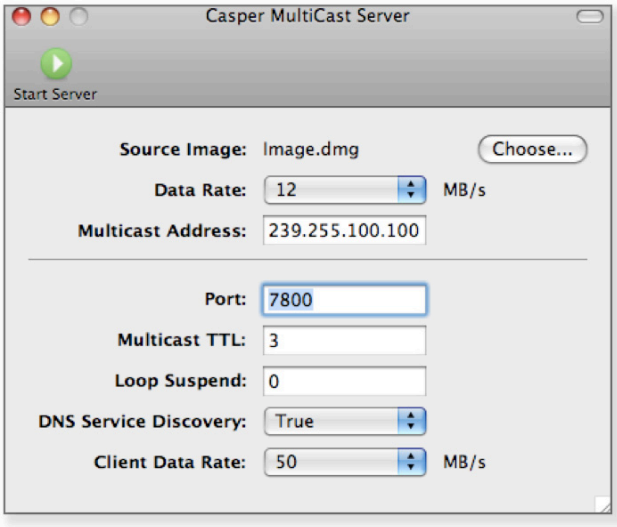
3. Use the **Data Rate** pop-up menu to choose a rate at which to stream the image.
4. Specify the IP address over which multicast traffic will take place.
5. Specify the port over which multicast will take place.

   By default, the port is 7800.
6. In the **MultiCast TTL** field, specify the time-to-live of the multicast packets.

   By default, this is entered as **3**.
7. (Optional) In the **Loop Suspend** field, specify the loop suspend value.
8. If you want the server to be advertised with Bonjour, choose **True** from the **DNS Service Discovery** pop-up menu.

   If you don't want the server to be advertised with Bonjour, choose **False**.
9. Set the client data rate.

   There are a number of factors that determine what this rate can be, such as network equipment and hard drive speed. Consult your network administrator to determine the client data rate that's best for your network.
10. Click the **Start Server** button in the toolbar to initiate the broadcast.



To image clients using Casper MultiCast:

1. Obtain a copy of the `multicastRestore.sh` script.
2. Edit the `server` parameter to direct clients to the distribution point broadcasting the multicast.
3. Open the Casper Admin application.
4. Drag the `multicastRestore.sh` script to the **Package** pane in Casper Admin.
5. When Casper Admin is finished uploading the installer, add the script to the configurations you want to image using Casper MultiCast.

Note: To ensure the imaging process is run correctly with Casper MultiCast, set the priority for the `multicastRestore.sh` script at **Before**.

6. Navigate to **File** > **Save** to save your changes, and then quit the application.