



Deep Freeze Enterprise - Integrating with Symantec Ghost

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Overview

This document explains the process of integrating Faronics products with Symantec Ghost Enterprise. This document, while mainly focused on Deep Freeze Enterprise, will cover the basics for integrating any command line enabled Faronics product into the Symantec Ghost Enterprise Console.

Topics

Important Information

Technical Support

Important Information

About Faronics

Faronics delivers market-leading solutions that help manage, simplify, and secure complex IT environments. Our products ensure 100% machine availability, and have dramatically impacted the day-to-day lives of thousands of information technology professionals. Fueled by a market-centric focus, Faronics' technology innovations benefit educational institutions, health care facilities, libraries, government organizations, and corporations.

Technical Support

Every effort has been made to design this software for ease of use and to be problem free. If problems are encountered, contact Technical Support:

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Integrating with Symantec Ghost

This chapter explains integrating Deep Freeze Enterprise and other Faronics products with Symantec Ghost Enterprise.

Topics

Creating a master image with Faronics Products

Deploying Faronics Products via Ghost Console

Managing Faronics Products via Ghost Console

Creating a master image with Faronics Products

Faronics products are commonly deployed in larger environments with a number of workstations installed. In these cases it is generally accepted that the products be included in a master image deployed to the workstations when they are initially provisioned.

Faronics Products as a general rule can be included in a master image without issue. Faronics Deep Freeze does however require a few items to be observed when imaging workstations that have the product installed:

- Workstations must be in a thawed state before the image is taken.
- The workstation must have been configured into a special mode where it is aware that the disk is being cloned.

These two steps ensure that Deep Freeze will not interfere with the imaging process and that systems deployed with the image will function as expected once imaging is complete. This step is only required if a full workstation install of Deep Freeze is installed on the workstation. The steps below are not required if you are installing only the Deep Freeze Seed.

Preparing Deep Freeze for Imaging

To prepare Deep Freeze for imaging perform the following steps:

1. Prepare your master image, including the install of all products to be part of the image.
2. After installing Deep Freeze boot the computer into a thawed state either using the boot control window on the local system, the Deep Freeze Enterprise Console, or Faronics Core.
3. Once thawed open the Boot Control window on the local workstation by pressing CTRL-ALT-SHIFT-F6, entering your password, and clicking OK.
4. Click on the “Set Clone Flag” option in the boot control window and click OK
5. At this stage take your image using whatever process you would normally use to image a workstation, including *Sysprepping* the image if required.

The workstation should not be rebooted between setting the Clone Flag in the boot control window and taking the image. The Clone Flag option is a temporary option that is only set until the workstation reboots.

Deploying Faronics Products via Ghost Console

Faronics products come packaged in one of two ways, either as a MSI file, or an executable file. Both types of products can be deployed using Ghost Console if required.

Deploying Products Packaged as an MSI file.

For products managed via Faronics Core the recommended method for deploying the products is through Faronics Core. In some instances it may be advantageous to deploy the Faronics Core Agent through the Symantec Ghost Console as part of a deployment task.

The process of deploying the Core Agent via Symantec Ghost Console consists of three basic steps.

- Create the Faronics Core Agent for deployment.
- Create the deployment tasks in Ghost Console.
- Execute the deployment task on the client workstations.

Creating the Faronics Core Agent for Deployment

To create a workstation install package for deployment follow the steps below:

1. Launch the Faronics Core Console
2. Right click on the server name shown in the left navigation pane and select *Create Faronics Core Agent Installer*.
3. Set the options required by the agent installer can click *OK* to save the Core Agent Installer.
4. In the *Save As* dialog select the location to save your Core Agent Installer and click *OK*.

Creating the deployment task in Ghost Console

1. Launch the Ghost Console and select the *Tasks* node.
2. In the area where tasks are displayed right click and select *New Task*.
3. In the *General* tab of the task properties name the task and select the *Software and File Actions* item in the task steps options.
4. Click the *Software and File Actions* tab and click *Add*.
5. In the *Deploy Actions* wizard select the option to *Transfer files and folders* and click *Next*.
6. Click *Add Files* and add the install package created earlier to the list of files to be sent to the workstation. Select the option to *Transfer to the Target Operating System* and specify a location local to the remote machine to install the files to.
7. Click *Finish*.
8. On the *Properties* for the task click the *Add* button a second time.
9. In the *Deploy Actions* wizard select the option to *Execute a Command* and click *Next*.
10. In the *Command* dialog box that is shown enter the following command: `MSIEXEC -I -Q <path to install file>` Replacing the *<Path to install file>* with the full path to the file

that you copied to the workstation and the full name of the install program. For example, \MSIEXEC -I -Q C:\Faronics Core Agent.MSI

11. Click *Next*.
12. Select the option *Wait for the command to finish before continuing the task*.
13. Click *Finish*.
14. Click *Close*.

The saved task can now be executed on the client workstations to install the Faronics Core Agent on managed workstations.

Executing the task on the targeted workstations.

Once the task to install the Core Agent has been created the task can be executed on any number of workstations as required through the Ghost Console by right clicking on the task and selecting *Execute Task*.

Deploying Products Packaged as Executables

Deep Freeze is slightly different from other Faronics Products in that it is packaged as a standalone executable file as opposed to an MSI file. The install process is largely the same once the package has been created but will require some additional command line syntax options to successfully install.

The deployment process follows the same basic workflow as items packaged as MSI files:

- Create the executable package for deployment.
- Create the deployment task in Ghost Console.
- Execute the deployment task on the client workstations.

Create the executable package for deployment

The creation of the Workstation install package is covered in detail in the Deep Freeze Enterprise users guide. Ensure that the file that you are deploying is a full workstation install package and that it contains a command line password to allow for remote control of the workstations being deployed to.

Create the deployment task in Ghost Console

1. Launch the Ghost Console and select the Tasks node.
2. In the area where tasks are displayed right click and select *New Task*.
3. In the General tab of the task properties name the task and select the *Software and File Actions* item in the task steps options.
4. Click on the *Software and File Actions* tab and then click *Add*.
5. In the Deploy Actions wizard select the option to *Transfer files and folders* and click *Next*.
6. Click *Add Files* and add the Deep Freeze workstation install package to the list of files to be sent to the workstation. Select the option to *Transfer to the Target Operating System* and specify a location local to the remote machine to install the files to.

7. Click *Finish*.
8. On the properties for the task click the *Add* button a second time.
9. In the Deploy Actions wizard select the option to *Execute a Command* and click next.
10. In the Command dialog box that is shown enter the name of the workstation install file for Deep Freeze on the target workstation including the full path to the file that you specified in step 7, include the command line switches `/INSTALL` and `/NOREBOOT`. Select the option to *Execute command in the Target Operating System*.
11. Click Next.
12. Select the option to *Wait for the command to finish before continuing the task*.
13. Click *Finish*.
14. On the *Properties* for the task click the *Add* button for a third time.
15. In the *Deploy Actions* wizard select the option to *Execute a Command* and click *Next*.
16. In the Command dialog box that is shown enter the command `SHUTDOWN -r -t 0` into the dialog box. Select the option to *Execute command in the Target Operating System*.
17. Click Next.
18. Select the option to *Wait for the command to finish before continuing the task*.
19. Click *Finish*.
20. Click *Close*.

Executing the task on the target workstations

Once the task to install Deep Freeze has been created the task can be executed on any number of workstations as required through the Ghost Console by right clicking on the task and selecting **Execute Task**.

Managing Faronics Products via Ghost Console

This section of the document will detail the process of managing Faronics products through the Ghost Console by leveraging the command line controls included in many Faronics products.

Command Line Controls

As many 3rd party tools exist for managing IT systems Faronics does not build specific pieces to integrate with those 3rd party tools. Faronics products do however ship with a set of command line controls that allow any 3rd party tool that can execute a command on a remote workstation to control the state of the Faronics products that are installed.

Creating a task to manage a Faronics Product

1. Launch the Ghost Console and select the Tasks node.
2. In the area where tasks are displayed right click and select *New Task*.
3. In the General tab of the task properties name the task and select the *Software and File Actions* item in the task steps options.
4. Click on the *Software and File Actions* tab and then click *Add*.
5. In the Deploy Actions wizard select the option to *Execute a Command* and click next.
6. In the Command dialog box that is shown enter the command that you want to execute, for example to Reboot Thawed a workstation: `DFC.EXE password /THAWNEXBOOT`
7. Click *Next*.
8. Select the option to *Wait for the command to finish before continuing the task*.
9. Click *Finish*.
10. If the task requires a reboot to become active or to complete follow the remaining steps below, otherwise proceed to step 15.
11. On the Properties for the task click the *Add* button a second time.
12. In the Deploy Actions wizard select the option to *Execute a Command* and click next.
13. In the Command dialog box that is shown enter the name of the workstation install file for Deep Freeze on the target workstation including the full path to the file that you specified in step 7, include the command line switches `/INSTALL` and `/NOREBOOT` Select the option to *Execute command in the Target Operating System*.
14. Click *Next*.
15. Select the option to *Wait for the command to finish before continuing the task*.
16. Click *Finish*.
17. Click *Close*.

Faronics Core

Faronics Core does not have any properties that can be altered via the command line as the Core Agent's primary role is to enable communication for other Faronics Products.

Deep Freeze

Deep Freeze contains a robust set of command line controls detailed below. These controls can be used to control and configure Deep Freeze on a client workstation. The most commonly used command line controls are detailed below:

Syntax	Description
<code>DFC password /THAWNEXBOOT</code>	Sets computer to restart Thawed the next time it restarts; only works on Frozen computers and does not force computer to restart.
<code>DFC password /FREEZENEXBOOT</code>	Sets up computer to restart Frozen the next time it restarts; only works on Thawed computers and does not force computer to restart.
<code>DFC password /CFG=[path] \Deepfrz.rdx</code>	Replaces Deep Freeze configuration information. Works on Thawed or Frozen computers. Password changes are effective immediately. Other changes require restart.
<code>DFC password /THAWLOCKNEXTBOOT</code>	Sets up computer to restart in a Thawed state with keyboard and mouse disabled; only works on Frozen computers.
<code>DFC password /LOCK</code>	Disables keyboard and mouse on computer. Works on Frozen or Thawed computer and does not require a restart.
<code>DFC password /UNLOCK</code>	Enables keyboard and mouse on computer. Works on Frozen or Thawed computer and does not require a restart.

Anti-Executable

Anti-Executable provides the ability to control the protection on the workstations as well as an ability to add files to the local control list via command line control. Additional details on the command line controls can be found in the Anti-Executable users guide.

Syntax	Description
<code>AEC Protect On /PW=password</code>	Enables Anti-Executable protection
<code>AEC Protect Off /FORCE /PW=Password</code>	Disables Anti-Executable protection, the /FORCE switch must be used if the workstation is in Maintenance mode.
<code>AEC Maintenance /duration=<n> /lock /PW=Password</code>	Enables maintenance mode on the workstation. The /LOCK option will disable keyboard and mouse input, the /DURATION=<n> switch defines how long the maintenance mode will last in minutes.

Syntax	Description
AEC block <path to file> /PW=password	Adds the specified file to the workstation's local control list as a blocked application.
AEC allow <path to file> /PW=password	Adds the specified file to the workstations local control list as an allowed application.

Power Save

Power Save provides the ability to disable and enable the Power Saving events on a workstation via command line control. Additional command line functionality can be found in the Power Save User Guide.

Syntax	Description
PowerSaveConfig /NoGui /Mode=full auditOnly /Password=password	Will change the Power Save operational mode to full or audit based on the command line option selected.
PowerSaveConfig /NoGui /conflig=<path to file> /Password=password	Will update the Power Save configuration with the one at the specified path.

If no password is set on the Power Save configuration the `/Password` command line switch can be omitted.