

FARONICS

DEEP FREEZE™

ADVANCED Workstation Integrity

Deep Freeze - Remote Administration & Secure Command Line Control

TECHNICAL PAPER

Last modified: March, 2019

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Deep Freeze Command Line Control (DFC.EXE)

The *Deep Freeze Command Line Control (DFC)* offers network administrators increased flexibility in managing Deep Freeze computers. DFC works in combination with third-party enterprise management tools and/or central management solutions. This combination allows administrators to update workstations on the fly and on demand.

It is important to note that DFC is not a stand-alone application. DFC integrates seamlessly with any solution that can run script files, including standard run-once login scripts.

DFC commands require a password with command line rights. OTPs cannot be used.

List all commands by calling DFC without parameters.

The files are copied to `C:\WINDOWS\system32\DFC.exe` on 32-bit systems and to

`C:\WINDOWS\system64\DFC.exe` on 64-bit systems.

DFC Return Values

On completion of any DFC command, the DFC returns the following values:

Value	Description
0	SUCCESS or Boolean FALSE, for commands returning a Boolean result
1	Boolean TRUE
2	ERROR - User does not have administrator rights
3	ERROR - DFC command not valid on this installation
4	ERROR - Invalid command
5 - *	ERROR - Internal error executing command

DFC Command Line Syntax

Syntax	Description
DFC password / BOOTTHAWED	Restarts computer in a Thawed state; only works on Frozen computers.
DFC password / THAWNEXBOOT	Sets computer to restart Thawed the next time it restarts; only works on Frozen computers and does not force computer to restart.
DFC password / BOOTFROZEN	Restarts computer into a Frozen state; only works on Thawed computers.
DFC password / FREEZENEXBOOT	Sets up computer to restart Frozen the next time it restarts; only works on Thawed computers and does not force computer to restart.
DFC get /ISFROZEN	Queries computer if it is Frozen. Returns error level 0 if Thawed. Returns 1 if Frozen.
DFC get /CLONE	Sets the clone flag for the purpose of imaging.
DFC password / CFG=[path] depfrz.rdx	Replaces Deep Freeze configuration information. Works on Thawed or Frozen computers. Password changes are effective immediately. Other changes require restart.
DFC get /version	Displays Deep Freeze version number.
DFC password / UPDATE=[path to installer file]	Sets up computer to restart in a Thawed state and install a Deep Freeze update.
DFC password /LOCK	Disables keyboard and mouse on computer. Works on Frozen or Thawed computer and does not require a restart.
DFC password /UNLOCK	Enables keyboard and mouse on computer. Works on Frozen or Thawed computer and does not require a restart.
DFC password / THAWLOCKNEXTBOOT	Sets up computer to restart in a Thawed state with keyboard and mouse disabled; only works on Frozen computers.
DFC password / BOOTTHAWEDNOINPUT	Restarts computer in a Thawed state with keyboard and mouse disabled; only works on Frozen computers.
DFC get /LICENSESTATUS	Displays the status of the license and the expiry date of the license (if any). The different possible types of license and the associated return codes are: 111: Unlicensed — Deep Freeze is not licensed and will operate in Evaluation mode for 30 days since installation. 112: Evaluation — licensed for evaluation with a fixed expiry date. 113: Licensed — licensed with no expiry date. 114: Expired — The Evaluation period has expired.
DFC get /LICENSETYPE	Displays the status of the license and the expiry date of the license (if any). The different possible types of license and the associated return codes are: 111: None (Unlicensed) — Deep Freeze is not licensed and will operate in Evaluation mode for 30 days since installation. 112: Evaluation — licensed for evaluation with a fixed expiry date. 113: Standard (Licensed) — licensed with no expiry date. 114: Not for Resale — Licensed with no expiry date. 115: Subscription 116: Subscription - Evaluation 117: Subscription - Not For Resale

Syntax	Description
<pre>DFC password / LICENSE=licensekey</pre>	<p>Changes the License Key.</p> <p><i>password</i> is the Deep Freeze Administrator password.</p> <p><i>licensekey</i> is the License Key for Deep Freeze.</p> <p>If there is an error, the following error codes are displayed:</p> <p>101: The License Key is not valid</p> <p>102: The License Key provided has already expired.</p>
<pre>DFC password / ACTIVATE</pre>	<p>Activates the workstation after checking with the Faronics License Activation Server.</p>
<pre>DFC get /ACTIVATION</pre>	<p>Displays the Deep Freeze license activation status.</p> <p>Returns the following values:</p> <p>0: Pending activation</p> <p>1: Active</p> <p>2: Authorized</p> <p>3: Deactivated</p> <p>4: Rogue</p>
<pre>DFC password /WU [/ UNLOCK] [/NOMSG / NOMESSAGE] [/THAW]</pre>	<p>Windows Updates will be downloaded and installed on the workstation.</p> <p>[/UNLOCK] Optional parameter to enable the Keyboard and Mouse during Windows Update.</p> <p>[/NOMSG /NOMESSAGE] Optional parameter to suppress all informational/warning messages from DeepFreeze during Windows Update.</p> <p>[/THAW] Optional parameter to return the machine into Thawed State after completion of Windows Update.</p>
<pre>DFC password /ENDTASK</pre>	<p>Ends the ongoing Workstation Task and reboots into Frozen state. Batch File Task and Thawed Period Task end immediately. Windows Update Task is completed.</p>
<pre>DFC password /ENDTASK [/SHUTDOWN]</pre>	<p>Ends the ongoing Workstation Task and reboots into Frozen state. Batch File Task and Thawed Period Task end immediately. Windows Update Task is completed.</p> <p>[/SHUTDOWN]Optional parameter to shut down the workstation.</p>
<pre>DFC password / FORMATTHAWSPACE</pre>	<p>Formats all the ThawSpaces on the workstation. Data stored on the ThawSpaces will be deleted permanently.</p>
<pre>DFC password / DELETETHAWSPACE</pre>	<p>Deletes all the ThawSpaces on the workstation. Data stored on the ThawSpaces will be deleted permanently.</p>

Batch File Example

The example below shows how to check for a specific error level using a DOS Batch file:

```
@ECHO OFF
DFC.EXE get /isfrozen
IF Errorlevel 5 GOTO Error5
IF Errorlevel 4 GOTO Error4
IF Errorlevel 3 GOTO Error3
IF Errorlevel 2 GOTO Error2
IF Errorlevel 1 GOTO Error1
IF Errorlevel 0 GOTO Error0
```

This section checks the Errorlevel that DFC provides to the operating system.

```
:Error5
Echo Errorlevel 5
Goto END
>Error4
Echo Errorlevel 4
Goto END
>Error3
Echo Errorlevel 3
Goto END
>Error2
Echo Errorlevel 2
Goto END
>Error1
Echo Errorlevel 1
Goto END
>Error0
Echo Errorlevel 0
Goto END
:END
```

This section contains the actions that should be performed for each Errorlevel.

Actions can be placed between the `ECHO Errorlevel #` statement and the `Goto END` statement for each of the detected error levels. To use this Batch file to automatically Thaw a Frozen workstation, the following section of the Batch file would have to change to the following:

```
:Error1
Echo Errorlevel 1
DFC.EXE password /BOOTTHAWED
Echo
Goto END
```