

Faronics

**DEEP FREEZE™**

ABSOLUTE Workstation Integrity

## **Deep Freeze - Remote Administration & Secure Command Line Control**

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### **TECHNICAL WHITEPAPER**

Last modified: June 25, 2009

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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`

### 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 0 if Thawed. Returns 1 if Frozen.
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 workstation. Works on Frozen or Thawed computers and does not require a restart.
DFC password /UNLOCK	Enables keyboard and mouse on computer. Works on Frozen or Thawed workstation 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.

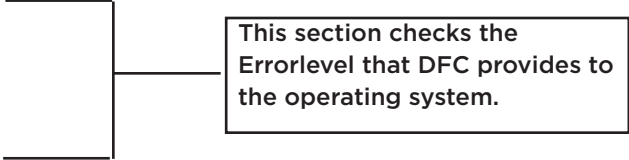
<p>DFC get /LICENSESTATUS</p>	<p>Displays the status of the license and the expiry date of the license (if any). The different possible types of license and the associated return codes are:</p> <p>111: Unlicensed — Deep Freeze is not licensed and will operate in Evaluation mode for 30 days since installation.</p> <p>112: Evaluation — licensed for evaluation with a fixed expiry date.</p> <p>113: Licensed — licensed with no expiry date.</p> <p>114: Expired — The Evaluation period has expired.</p>
<p>DFC get /LICENSETYPE</p>	<p>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:</p> <p>111: None (Unlicensed) — Deep Freeze is not licensed and will operate in Evaluation mode for 30 days since installation.</p> <p>112: Evaluation — licensed for evaluation with a fixed expiry date.</p> <p>113: Standard (Licensed) — licensed with no expiry date.</p> <p>114: Not for Resale — Licensed with no expiry date.</p>
<p>DFC password /LICENSE=licensekey</p>	<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>

## Batch File Example

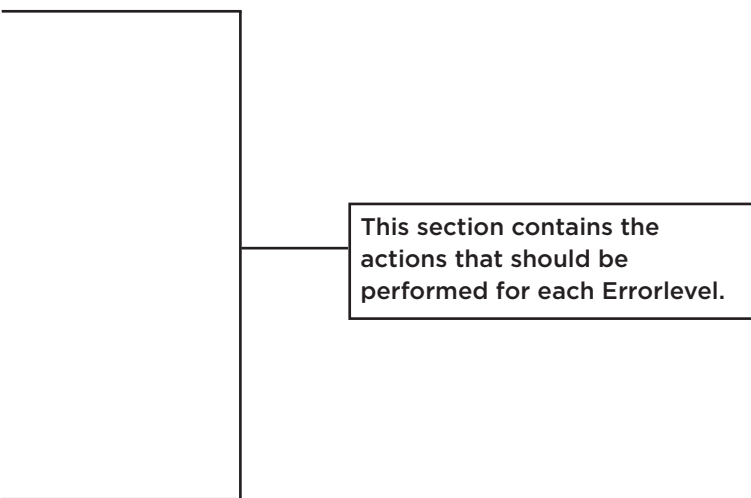
The example below shows how to check for a specific error level using a DOS Batch file:

```
@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
```

```
: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 checks the Errorlevel that DFC provides to the operating system.



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
```