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Preface

This user guide explains how to install and use Data Igloo.

Topics

Important Information
Technical Support
Important Information

This section contains important information about your Faronics Product.

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.

Product Documentation

The following documents form the Data Igloo documentation set:

- *Data Igloo User Guide* — This document guides you how to use the product.
- *Data Igloo Release Notes* — This document lists the new features, known issues, and closed issues.
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.

Technical Support:
www.faronics.com/support
Web:
www.faronics.com
Introduction

Data Igloo was created to work with Deep Freeze. Deep Freeze protects a computer and restores it to the original state on reboot. Data Igloo is a utility that allows you to redirect User Profiles, Folders, and Registry Keys to a different location on your computer and retain data even after a reboot when the computer is protected by Deep Freeze.

Data Igloo can also be used independently without installing Deep Freeze. Data Igloo provides an easy way to create NTFS Junction Points and NTFS Symbolic Links using a GUI.

Topics

*System Requirements*
System Requirements

The system requirements for Data Igloo are:

- Windows XP, Windows Vista, Windows 7, Windows 8.1 or Windows 10 (32-bit and 64-bit)
- Microsoft .NET 2.0 (SP1) or higher
- Deep Freeze Enterprise or Deep Freeze Standard (6.3 or higher). This is applicable only if you are using Deep Freeze with Data Igloo. Data Igloo can be used independently without installing Deep Freeze.
Installing Data Igloo

This chapter describes how to install Data Igloo.
Installing Data Igloo

To install Data Igloo, complete the following steps:

If .NET is not installed on your computer, the installer will automatically download it from the Internet and install it. Ensure that your computer is connected to the Internet.

1. Double-click Faronics_IGS.exe. Click Next.

2. Read and accept the License Agreement. Click Next.
3. Enter the User Name and Organization. Click Next.

![Image of User Name and Organization entry](image1.png)

4. The default location for Data Igloo is `C:\Program Files\Faronics\Data Igloo Standard`. Click Change... to change the location where Data Igloo is installed. Click Next.

![Image of Change Location](image2.png)

5. Click Install to install Data Igloo.

![Image of Ready to Install](image3.png)

6. Click Finish to complete installation.
While it is possible to install Data Igloo when Deep Freeze status is Frozen, redirections created will not remain after a reboot. This is useful for testing redirections. It is not possible to uninstall or repair Data Igloo when Deep Freeze status is Frozen.

**Accessing Data Igloo**

Data Igloo can be accessed via *Start > Programs > Faronics > Data Igloo*. 
Using Data Igloo

This chapter explains how to use Data Igloo.

Topics

- Data Igloo Overview
- Deep Freeze Status
- User Profile Redirection
- Folder Redirection
- Registry Key Redirection
- Closing Data Igloo
- Logging Events in Data Igloo
- Command Line
Data Igloo Overview

The following screen is displayed when Data Igloo is launched:

- **Deep Freeze Status Icon** — The status of Deep Freeze is displayed.
- **Tabs** — Data Igloo provides the User Profile Redirection, Folder Redirection and Registry Key Redirection tabs. All tabs are explained in detail further in the user guide.
- **Help** — Launches the Online Help.
- **Check for Updates** — Checks if there is a new version of Data Igloo available.
- **About** — Displays information about the Data Igloo version and the End User License Agreement.
- **Status Bar** — The status bar at the bottom of the Data Igloo screen displays the following information:
  - **User Name** — The User Name of the user account currently logged in.
  - **Operating System** — The Operating System and service pack (if applicable).

Only users with administrative rights are allowed to use Data Igloo.
Deep Freeze protects a computer and restores it to the original state on reboot. Once Deep Freeze is installed on a computer, any changes made to the computer—regardless of whether they are accidental or malicious—are never permanent. For more information on Deep Freeze visit http://www.faronics.com/deepfreeze

The following Deep Freeze status are displayed on Data Igloo:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Icon" /></td>
<td>Deep Freeze Status is Frozen — Changes made to the computer will be lost when the computer is restarted.</td>
</tr>
<tr>
<td><img src="image2.png" alt="Icon" /></td>
<td>Deep Freeze Status is Thawed — Changes made to the computer will be retained even after the computer is restarted.</td>
</tr>
<tr>
<td><img src="image3.png" alt="Icon" /></td>
<td>Deep Freeze not installed — Deep Freeze is not installed on this computer.</td>
</tr>
<tr>
<td><img src="image4.png" alt="Icon" /></td>
<td>Deep Freeze Seed installed — Deep Freeze seed is installed on this computer.</td>
</tr>
<tr>
<td><img src="image5.png" alt="Icon" /></td>
<td>Deep Freeze is Thawed and Locked — Deep Freeze is Thawed and the keyboard and mouse are disabled.</td>
</tr>
<tr>
<td><img src="image6.png" alt="Icon" /></td>
<td>Deep Freeze is in Maintenance — Deep Freeze maintenance is in progress.</td>
</tr>
</tbody>
</table>
**ThawSpace**

ThawSpace is a feature of DeepFreeze Enterprise. ThawSpace is a virtual partition that can be used to store programs, save files, or make permanent changes. All files stored in the ThawSpace are retained after a restart, even if the computer is Frozen.

A ThawSpace must be created in Deep Freeze Enterprise before saving data. Alternatively, you can also save data on *Thawed Drives* if you are using Deep Freeze Standard.

Data Igloo allows you to redirect the User Profile and specific Folders to a ThawSpace. Deep Freeze allows you to create Hidden ThawSpaces. For more information on the process to Hide or Display a ThawSpace refer to *Appendix A, Redirecting to Hidden ThawSpaces.*
The User Profile Redirection feature redirects the entire user profile to any NTFS volume or partition on the computer. This is useful if Deep Freeze is installed, in order to retain new or modified user data like Internet Favorites, My Documents and Desktop information even after reboot.

It is not possible to redirect the profile of the user currently logged in.

Both the source and target drives must be NTFS partitions.

If an error occurs during the redirection process, Data Igloo will revert to the original state without any changes to the data or settings.

The User Profile Redirection tab is displayed as follows:
Creating a User Profile Redirection (for Existing User Profiles)

Complete the following steps to redirect a user profile from the default location to another drive on your computer:

1. Ensure the Deep Freeze status is *Thawed*.
2. Select the user from the *Users* pane.
3. This step is optional. Select the *Redirect any newly created user profiles to:* check box to redirect newly created user profiles to a ThawSpace. Browse to select the location of the ThawSpace. If a new user profile is created, it will automatically be redirected to the selected location.

Selecting the *Redirect any newly created user profiles to:* check box automatically selects the *Redirect registry key changes to:* check box in the *Registry Key Redirection* tab. For more information, refer to *Registry Key Redirection*.
4. In the User Profile Location pane select Custom Location. Click Redirect User Profile... to select the location.

5. The Redirect User Profile dialog is displayed with the Source auto-filled. This is a read-only field and cannot be edited.
6. Click Browse for the Target. Select the Target in the Browse for folder dialog. Alternatively, you can specify the path of the target folder and click OK.

7. Set the permissions:
   - Select the Copy NTFS permissions (where applicable) check box to copy the permissions for NTFS. The security applied to Source folder by the NTFS file system is copied to the Target folder. The security and share permissions are also applied to the files and folders within the Target folder.
   - Select the Copy Share permissions (where applicable) check box to copy the Share permissions for the user profile folder.

8. Click Redirect User Profile.

9. Data Igloo scans the files and if errors occur, it is displayed in the Error Dialog. For more information about the Error Dialog refer to Data Igloo Error Dialog. If no error is displayed, a progress bar is displayed and the User Profile is redirected to the target location.
Automatically Redirecting Newly Created User Profiles

Data Igloo provides an option to automatically redirect newly created user profiles. This feature saves time and effort for the administrator by ensuring that all newly created user profiles are redirected to the selected location automatically.

Complete the following steps to automatically redirect newly created user profiles:

1. Go to User Profile Redirection tab.
2. Select the **Redirect any newly created user profiles to:** check box to redirect newly created user profiles to a ThawSpace.

If Deep Freeze status is *Frozen*, you can still redirect a User Profile. The files and folders related to the User Profile will be successfully moved even when the Deep Freeze status is *Frozen*. However, the User Profile Redirection will not be retained when the computer is restarted.

The User Profile redirected to the target folder inherits permissions from its parent folder. In addition, the owner of the User Profile will be added to the folder with **Full Control** permissions.
• *Redirect registry key changes to*: click Browse to select the location of the ThawSpace. Alternatively, you can specify the path of the target folder. Changes to the registry are automatically redirected to the selected location.

• *Redirect newly created user profiles to*: click Browse to select the location of the ThawSpace. Alternatively, you can specify the path of the target folder. If a new user profile is created, it will automatically be redirected to the selected location.

3. Click *OK*.

**Removing a User Profile Redirection**

Complete the following steps to remove a previously redirected User Profile on your computer:

1. Ensure the Deep Freeze status is *Thawed*.
2. Select the user profile from the *Users* pane for which the user profile redirection is to be removed.
3. In the User Profile Location pane select Default Location.

4. A dialog is displayed showing the current and target location for the User Profile. Click Yes.

5. A progress bar is displayed and the User Profile redirection is removed.
Folder Redirection

The *Folder Redirection* feature moves a folder to any NTFS volume or partition on the computer. This is useful when Deep Freeze is installed. This feature ensures that data in a folder on a *Frozen* drive is always saved on the *Thawed* drive, thereby retaining the data during a reboot.

The *Folder Redirection* tab is displayed as follows:

Both the source and target drives must be NTFS partitions.

If an error occurs during the redirection process, Data Igloo will revert to the original state without any changes to the data or settings.
Example

If you have installed Deep Freeze on your computer running Windows XP and if C: is Frozen, the files saved in the My Documents folder are erased on reboot. To avoid such a situation, you can redirect the My Documents folder to a Thawed partition using Data Igloo.

Perform the following steps:
1. Reboot the computer in a Thawed state.
2. Redirect C:\Documents and Settings\<User Name>\My Documents to the ThawSpace T:.
3. Reboot the computer in a Frozen state.

Creating a new Folder Redirection

Complete the following steps to redirect a folder to another location on your computer:
1. Ensure the Deep Freeze status is Thawed.
2. Go to Folder Redirection tab. Click Redirect Folder....
3. In the *Create Folder Redirection* dialog, click *Browse* to select the source folder.

   ![Redirect Folder](image)

   - Select the *Copy NTFS permissions (where applicable)* check box to copy the permissions for NTFS. The security applied to Source folder by the NTFS file system is copied to the Target folder. The security and share permissions are also applied to the files and folders within the Target folder.
   - Select the *Copy Share permissions (where applicable)* check box to copy the share permissions for the folder.

   ![Warning](image)

   The compression and encryption attributes of the folders and the files within the folders are not copied.

4. Select the source folder and click *OK*.

   ![Browse For Folder](image)

5. In the *Create Folder Redirection* dialog, click *Browse* to select the target folder.
6. Select the target folder and click **OK**. Alternatively, you can specify the path of the target folder.

7. Click **Redirect Folder**.

8. A progress bar is displayed and the folder is redirected.
The folder redirected to the target drive will inherit the permissions from its parent folder.
Removing a Folder Redirection

Complete the following steps to remove a previously redirected folder on your computer:

1. Ensure that Deep Freeze is *Thawed*.
2. Go to *Folder Redirection* tab.
3. The list of folders currently redirected is displayed. Select the Folder Redirection to be removed and click *Remove*.

4. A configuration dialog is displayed displaying the current and target location of the folder. Click Yes to continue.

5. The folder redirection is removed.
The Registry Key Redirection tab allows you to redirect changes occurring in selected registry keys to a ThawSpace. This ensures that the changes to the registry key are retained even when the Deep Freeze status is Frozen. When Deep Freeze status is Thawed, the changes to the registry keys saved on the ThawSpace are automatically restored to the registry.

The Registry Key Redirection tab is displayed as follows:

Only the HKEY_LOCAL_MACHINE registry keys can be redirected using Data Igloo.
Creating a Registry Key Redirection

Complete the following steps to create a Registry Key Redirection:

1. Ensure the Deep Freeze status is *Thawed*.
2. Go to *Registry Key Redirection* tab. Select *Redirect registry key changes to:* check box.

3. Click *Browse* to select a location on a Thawed drive.

4. Click *Select Key from registry*....
5. In the **Browse For Registry Key** dialog, select the registry key and click **Redirect**.

6. The registry key is redirected to the Thawed drive.
7. Reboot the computer *Frozen*.

Changes made to the configuration are applied only when the computer restarted. Registry key redirection takes effect only when the computer is rebooted *Frozen*.

Select the specific registry key to be redirected. Selecting the parent registry key removes the child registry key from the list.

Deep Freeze status must be Thawed to change the settings in the Registry Key Redirection tab. Registry key redirection can also be enabled when the Deep Freeze status is Frozen. However, registry key redirection will not take effect when the computer is rebooted.
The registry keys that are grayed out cannot be redirected.

Some Registry Keys might automatically appear in the Registry Key Redirection tab. These Registry Keys are used by Data Igloo and cannot be removed manually.
Removing a Registry Key Redirection

Complete the following steps to remove Thawed registry keys:

1. Ensure that Deep Freeze is Thawed.
2. Go to Registry Key Redirection tab.
3. Select the registry key from the list and click Remove from list.
Click *Close* icon on the title bar to close Data Igloo. Alternatively, click the *Close* button.
Logging Events in Data Igloo

Data Igloo provides two ways to log and view the events. The Data Igloo error dialog and the Log File. The Log File logs events for actions performed by Data Igloo.

**Data Igloo Error Dialog**

The Data Igloo error dialog is displayed whenever there is an exception. The dialog displays the following options:

- Click **View Log File** to view the log file.
- Click **Copy to clipboard** to copy the contents displayed in the error dialog to the clipboard. The contents can then be pasted in a word processor or E-mail.
- Click **Rescan** to scan the action again and refresh the error dialog.
- Click **Cancel** to cancel the dialog.

![Data Igloo Error Dialog](image)

**Data Igloo Log File**

To view the events logged in the log file, complete the following steps:

1. Go to `C:\Program Files\Farionics\Data Igloo Standard`.
2. Double-click `Data Igloo.txt`.
3. The events are displayed in the log file.
Command Line

Data Igloo has the following command line options.

**Syntax:**

IGC.exe/[Command]

**Argument/Switch:**

<username> the username on the computer for the specified user.

<hostname> the Domain name/Host name.

</loc:> the name of the drive or volume. For example, it may be D: (drive) or volume name.

<source> the name of the source folder that is to be redirected.

<target> the target name of the folder.

<location> location in the registry.

<RegKeyPath> the path of the registry key in the registry.

[NTFS] copies the folder permissions to target.

[Share] copies the sharing permissions and properties of the folder to the target.

[d] reverse the action when used with the particular command.

List of commands available in Data Igloo:

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faronics_IGS.exe /s /v/qn</td>
<td>Silent Install.</td>
</tr>
<tr>
<td>Faronics_IGS.exe /s /x /v/qn</td>
<td>Silent Uninstall.</td>
</tr>
<tr>
<td>h</td>
<td>help</td>
</tr>
<tr>
<td>help</td>
<td>Displays the Help about all the supported commands.</td>
</tr>
<tr>
<td>ver</td>
<td>version</td>
</tr>
<tr>
<td>version</td>
<td>Displays the version of Data Igloo Command Line tool.</td>
</tr>
<tr>
<td>GetDFStatus</td>
<td>Displays the current status of Deep Freeze (Frozen or Thawed).</td>
</tr>
<tr>
<td>CheckForUpdate</td>
<td>Checks if a new version of Data Igloo is available.</td>
</tr>
</tbody>
</table>
### Data Igloo User Guide

#### Using Data Igloo

**Examples**

To redirect the user profile for John to E: drive, you can use the following syntax:

```
IGC.exe /RedirectUP FARONICS\john /loc:E:\user
```

To redirect the folder C:\Documents to E: drive, you can use the following syntax:

```
IGC.exe /RedirectFolder C:\Documents /loc:E:\
```

<table>
<thead>
<tr>
<th><strong>Command</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
</table>
| AutoRedirectUP <loc:><path>  
AutoRedirectUP [/d] | A newly created user profile will be automatically redirected to the defined location and path. |
| RedirectUP <hostname\username> <loc:><newpath>  
RedirectUP <hostname\username> <loc:><newpath> [/NTFS]  
RedirectUP <hostname\username> <loc:><newpath> [/share]  
RedirectUP <hostname\username> <loc:><newpath> [/share] [/NTFS] | Redirects user profiles to the specified location. |
| RedirectUPDefault <username>  
RedirectUPDefault <username> [/NTFS]  
RedirectUPDefault <username> [/Share]  
RedirectUPDefault <username> [/Share] [/NTFS] | Redirects the specified user profiles to the default location. |
| RedirectFolder <source> <loc:><target>  
RedirectFolder <source> <loc:><target> [/NTFS]  
RedirectFolder <source> <loc:><target> [/Share]  
RedirectFolder <source> <loc:><target> [/NTFS] [/Share]  
RedirectFolder <source> <loc:><target> [/d] | Redirects the specified folder to a new destination. |
| RedirectRegKeyLocation <loc:><location>  
RedirectRegKeyLocation [/d] | Sets a Location for all the subsequent RedirectRegKey operations. |
| RedirectRegKey <RegKeyPath>  
RedirectRegKey <RegKeyPath> [/d] | Redirects contents of a specified Registry Key to a location as defined by the RedirectRegKeyLocation command. |
Uninstalling Data Igloo

This chapter describes how to uninstall Data Igloo.

Topics

*Uninstalling Data Igloo with the Installer*
*Uninstalling Data Igloo via Add or Remove Programs in Windows*
Uninstalling Data Igloo with the Installer

Complete the following steps to uninstall Data Igloo:

1. Double-click `Faronics_IGS.exe`. Click Next.

2. Select Remove. Click Next.
3. Click *Remove*.

4. Data Igloo is removed from your computer. Click *Finish* to complete uninstallation.
Uninstalling Data Igloo via Add or Remove Programs in Windows

Complete the following steps to uninstall Data Igloo via Add or Remove Programs in Windows:

1. Click Start>Control Panel>Add or Remove Programs.
2. Select Data Igloo.
3. Click Remove.
Redirecting to Hidden ThawSpaces

ThawSpace is a virtual partition that can be used to store programs, save files, or make permanent changes. All files stored in the ThawSpace are retained after a restart, even if the computer is Frozen.

Deep Freeze allows you to create Hidden ThawSpaces. Hidden ThawSpaces are not visible in Windows Explorer. However, Hidden ThawSpaces can be accessed via `Start>Run>[Drive Letter]`.

To redirect folders to Hidden ThawSpaces, complete the following steps before creating a Folder Redirection via Data Igloo:

Go to the Folder Redirection tab.

1. Ensure the Deep Freeze status is Thawed.
2. Go to Folder Redirection tab. Click Redirect Folder....
3. In the Create Folder Redirection dialog, click Browse to select the source folder.
   - Select the Copy NTFS permissions (where applicable) check box to copy the permissions for NTFS. The security applied to Source folder by the NTFS file system is copied to the Target folder. The security and share permissions are also applied to the files and folders within the Target folder.
   - Select the Copy Share permissions (where applicable) check box to copy the share permissions for the folder.
4. Select the source folder and click OK.
5. Specify the name of Hidden ThawSpace in the Target. For example, if the Hidden ThawSpace is S: drive, specify S: in the Target. If you want to redirect to a folder within the Hidden ThawSpace, specify <Hidden ThawSpace Drive letter>/<Folder Name>.
6. Click Redirect Folder.
7. A progress bar is displayed and the folder is redirected.
Appendix B  Best Practices for Installing Using Imaging

Prequisites: You must know about imaging using Sysprep before running this example. For more information, refer to http://technet.microsoft.com/en-ca/library/cc766049(v=ws.10).aspx.

Imaging workstations is one of the quickest ways to deploy workstation software and operating system settings to multiple workstations. Creating specialized image for single computer and reimaging it is a straightforward process, since it does not require any steps to re-configure the system. However, in enterprise environments, the master image is intended for deployment on multiple computers and has to be configured or generalized in order to remove system specific information, such as computer name, user SID etc. The master image is usually customized with certain system configuration and installed software. Below is the recommended way of creating customized master image with Deep Freeze and Data Igloo installed.


2. Install fresh Windows system on reference computer.

3. Press Ctrl-Shift-F3 to reboot the system into Audit mode before creating user name on freshly installed system. Alternatively, to create users on master image, finalize Windows installation, create all required users and reboot system into Audit mode using Windows SysPrep utility. This will reboot the system into Audit mode, where the system can be further customized.

4. In the Audit mode, perform all required customizations and software installations. This includes Deep Freeze workstation and Data Igloo. At this point, do not configure Data Igloo to redirect users, folders and registry.

5. This step is only to configure all the required scripts. Create all required scripting solutions and configure Windows SysPrep which will run the unattended installation. Configure scripts to automatically run on first reboot after deploying the image. The scripts can be configured to perform drive letter re-assignment as well as scripting using the Data Igloo command line tool IGC.exe. The scripts can be configured to perform user, folder, and registry redirections. This will ensure the newly imaged system will automatically perform all required customizations, which were not possible to make within master image.

6. Set the Clone flag in Deep Freeze workstation configuration. This will ensure Deep Freeze will startup in Thawed mode on newly imaged system. Therefore, all the customizations will be permanently retained.
7. Run the Sysprep utility with *Out of the Box experience, Generalize and Shutdown* option. This will generalize the system on reference computer and automatically shut it down.

8. Capture the image of the reference computer using any disk imaging tool. This will create a generalized master image, which can be further deployed on multiple computers.

---

Do not configure Data Igloo before generalizing the reference image since the Thawed Users and Folders may become inaccessible and it might lead to incorrect monitoring of Thawed Registries. Redirecting Folders or Registry Keys before imaging may lead to broken junction links during imaging.
Appendix C  

Example User Profile Redirection to a Real Partition

This example explains how to redirect the user John Smith to a real partition using Data Igloo. If the C: drive is in a Frozen state, the user data is lost on reboot. To ensure that the user data is not lost, we can use Data Igloo to redirect the user profile to a real partition (say E: drive) that always remains Thawed.

Complete the following steps to redirect the user profile from C: drive to E: drive:

1. Install Deep Freeze on the computer. Deep Freeze Standard and Deep Freeze Enterprise (workstation) are both applicable for this example. Ensure that only C: drive stays Frozen.
2. Reboot Thawed.
3. Install Data Igloo.
4. Launch Data Igloo.

In the User Profile Redirection tab, select John Smith. Click Custom Location and Redirect User Profile.

5. The Source is selected automatically (C:\Users\John Smith). Click Browse for the target. Copy NTFS permissions and Copy Share permissions are selected by default.
6. Select the E: drive and click OK.

7. The location of the user profile is now selected. Click Redirect User Profile.
8. The user profile John Smith is now redirected to E: drive.

To check if the redirection was successful, navigate to E:/John Smith. The contents of the folder are displayed:
Bloomberg Professional is installed on C: drive by default. Bloomberg also saves data on the C: drive. For computers using Deep Freeze where C: drive is in a Frozen state by default, the data is lost on a reboot. Bloomberg can be installed on a drive other than C: drive (for example, Thawed drives like D: or E:). If there is a software update, the system files may be retained upon a reboot since they are installed on a Thawed drive. However, some software updates also update the registry keys. Since the registry keys are on C: drive, the updates are lost on reboot.

The solution to this problem is to migrate a program to a Thawed partition. Migrating a program consists of two parts:

- Folder Redirection — to redirect the files for the program to a Thawed drive.
- Registry Key Redirection — to redirect the registry key for the particular program to a non-Frozen drive.

Complete the following steps to redirect a program (Folder and Registry Key) to a Thawed drive.

1. Install Deep Freeze on the computer. Deep Freeze Standard and Deep Freeze Enterprise (workstation) are both applicable for this example. Ensure that only C: drive stays Frozen.
2. Reboot Thawed.
3. Install Data Igloo.
4. Install the program that will save data on C: drive. For this example, we have chosen Bloomberg, a desktop application. Install Bloomberg in its default location. By default it is installed on c:\blp.
5. Launch Data Igloo and click the *Folder Redirection* tab.

6. Click *Redirect Folder*. 
7. Browse to select C:\blp and click OK.

8. The source path is select. Click Browse for target.

9. Browse to select E: drive and click OK.

10. The Target drive is now selected. Copy NTFS permissions and Copy Share permissions are selected by default. Click Redirect Folder.
11. The folder redirection is completed.
12. Click the Registry Key Redirection tab. Select Redirect registry key changes to and browse to select E: drive. Click Select Key from Registry.

13. Browse to select HKEY_LOCAL_MACHINE\SOFTWARE\Bloomberg L.P. Click Redirect.
14. The registry keys for Bloomberg is now redirected to E: drive.

Now, Bloomberg is not only able to save data on E: (Thawed drive), but also able to retain program updates across reboots even when C: drive is Frozen.
Using Data Igloo with Microsoft Security Essentials

When using an Antivirus or an Anti-Malware program, it is necessary to save the virus definitions on the computer. When the computer is protected by Deep Freeze, the definitions may be lost during a reboot. In addition to the virus definitions, it is necessary to save the configuration, scan history and other data relevant to the user. Some Antivirus programs may not allow changing the folders from C: drive due to their own self-protection mechanisms.

The solution is to create the folders first, redirect them using Data Igloo and then install the Antivirus program.

The following example provides steps for redirecting the folder and registry keys for Microsoft Security Essentials using Data Igloo:

1. Reboot workstation into *Thawed* state.
2. On the computer where MSE is not installed create following new folders, which will be used by Microsoft Security Essentials:
   - On all Windows Operating Systems:
     - C:\Program Files\Microsoft Security Client
   - On XP systems:
     - C:\Documents & Settings\All users\Application data\Microsoft\Microsoft Security Client
     - C:\Documents & Settings\All users\Application data\Microsoft\Microsoft Antimalware
   - On Vista and Windows 7 systems:
     - C:\Programdata\Microsoft\Microsoft Security Client
     - C:\Programdata\Microsoft\Microsoft Antimalware
3. Using Data Igloo folder redirection feature, redirect newly created folders to a Thawed location. For this example, we are redirecting to E:
   - For this example, we are using Windows 7 and the following folders need to be redirected to E:
     - C:\Program Files\Microsoft Security Client
     - C:\Programdata\Microsoft\Microsoft Security Client
     - C:\Programdata\Microsoft\Microsoft Antimalware
5. Using Data Igloo registry redirection feature redirect following registry keys onto a Thawed location. For this example, we have chosen E: drive.

![Data Igloo User Guide](image)

6. Reboot the workstation into Frozen state.

All new virus and spyware definitions, history of detected items, as well as Microsoft Security Essentials settings will be retained across reboots. This setup will also allow to retain new version updates of the Microsoft Security Essentials.

This example is only applicable to Windows XP, Vista and Windows 7. On Windows 8, Microsoft Security Essentials is built-in as part of Microsoft Defender.
Redirecting Event Logs using Data Igloo

When using Deep Freeze to protect computers, the Windows Event Logs are lost on reboot. The Event Logs provide valuable information to IT administrators and may need to be retained.

The solution to this problem is to redirect the registry for Event Logs to a Thawed location using Data Igloo.

The following example provides steps for redirecting the registry keys for Event Logs using Data Igloo:

1. Reboot workstation into Thawed state.

2. Using Data Igloo registry redirection feature redirect HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog onto a Thawed location. For this example, we have selected E: drive.

3. Reboot the workstation into Frozen state.

All new Event Logs will now be retained across reboots even when Deep Freeze is in a Frozen state.

To forward Event Logs to a central server if you are running Vista or higher, refer to http://technet.microsoft.com/en-ca/library/cc748890.aspx.