

# F-Response Imager Manual

## 7.0.4.4

Provides a complete breakdown of leveraging the F-Response Imager to perform expert forensic image acquisitions.

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## Terminology

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The term “F-Response Imager” refers to the Windows graphical user interface application. The following terms are used throughout this manual. The definitions used in this manual are as follows:

### Physical Device

Physical Device refers to the F-Response connected subject’s remote physical disks and logical volumes presented as locally attached physical disks.

### Virtual Device

Virtual devices refer to F-Response virtual connected resources which include DiscoveryShares™, MemoryShares™, and F-Response Connector Volumes™.

### Physical Image

Physical Image refers to an Expert Witness (EWF) formatted full device acquisition. Physical Images will include the allocated and unallocated content of the physical device. Physical images can only be performed against Physical Devices.

### Logical Image

Logical Image refers to an Expert Witness (EWF) or Virtual Hard Disk (VHD) formatted file and folder acquisition of a virtual device.

### Container

Container refers to a list of references of user identified files and folders from either physical or virtual devices added to a user created container. A container must be converted to a Expert Witness (EWF) or Virtual Hard Disk (VHD) formatted Image to actually acquire the files and folders added.

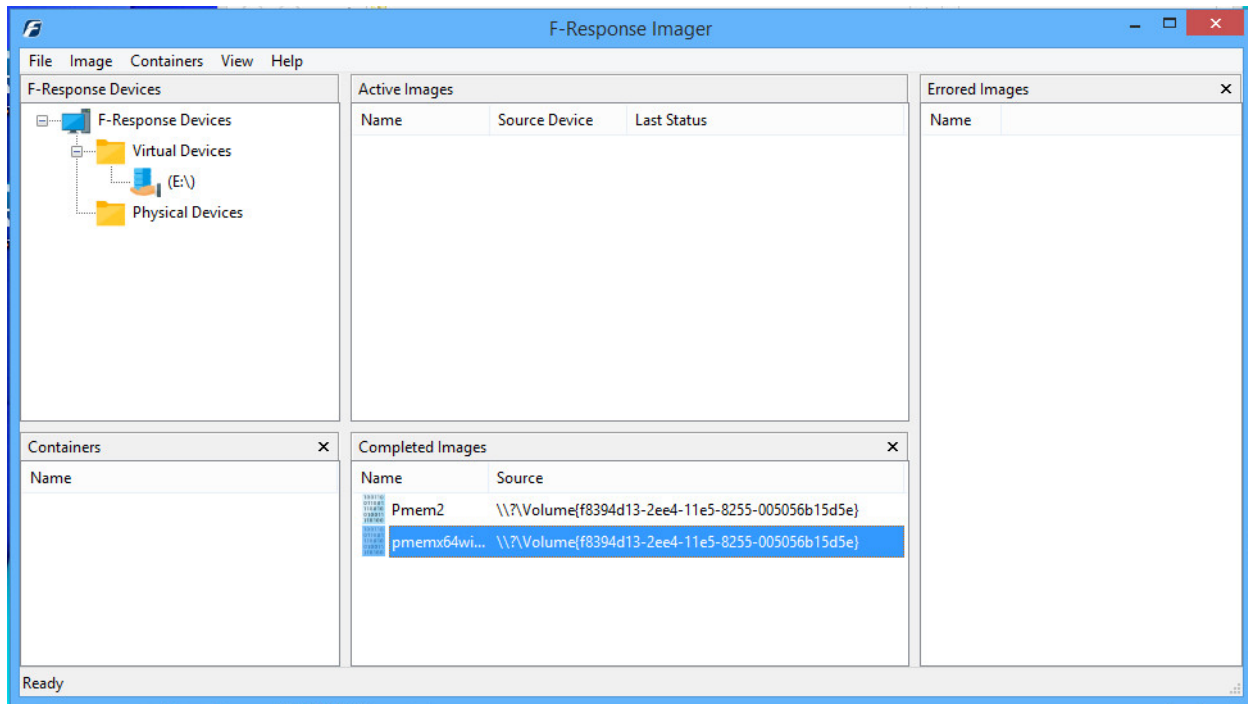
## Supported Platforms

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The F-Response Imager executables are designed to function properly on the following Microsoft Windows versions: 7, 2008, 2008r2, 8.1, 2012, and 10 (64-bit only).

## Overview

The F-Response Imager is a patent pending F-Response Imaging product developed to provide simple, fast, and full operating system level integrated imaging for F-Response customers.

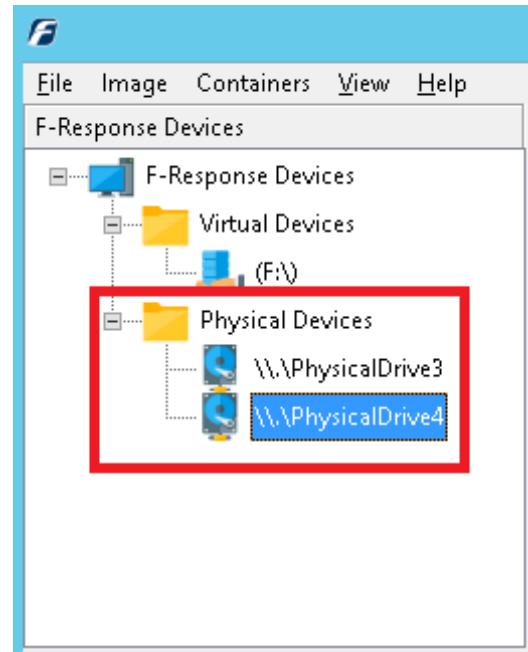


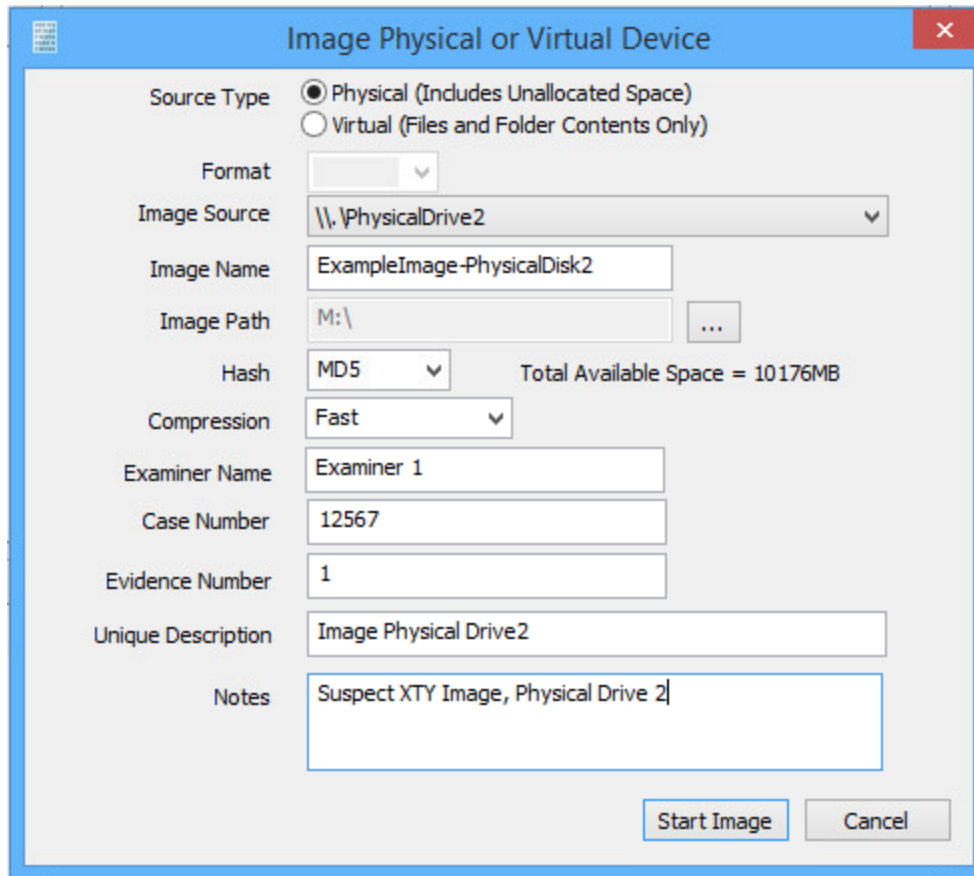
## Using the F-Response Imager

### Physical Image

#### Creating a Physical Image from the Console

The F-Response Imager provides the ability to make Physical Images of attached F-Response presented physical devices. Use the File->New Image... menu option or simply double click on an F-Response attached physical device to open a dialog for creating a new Physical Image.





Creating a Physical Image requires the following dialog items be completed.

#### **Source Type**

You must select Physical as your source type.

#### **Image Source**

You must select a valid F-Response drive from the list of available drives and volumes to be imaged.

#### **Image Name**

You must input a valid file name for the Image you will be creating.

#### **Image Path**

You must use the “...” button to locate a suitable location to save your image files to, image files may NOT be saved to network shares.


#### **Hash**

You must select a valid Hash: MD5, SHA1, or both.

#### **Compression**


You have the option to enable compression of your image, where ‘Fast’ offers slight compression but fastest imaging speed, ‘Normal’ is the middle of the compression/speed scale, and ‘High’ offers the highest compression but slower imaging time. The default setting is ‘None’ if compression of the image is not needed.

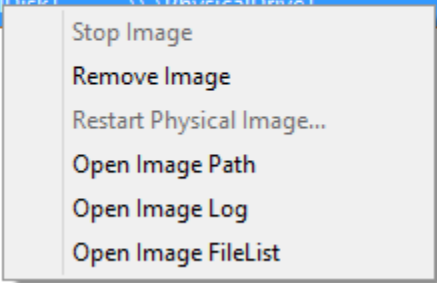
All other fields are optional and will be saved for your user account and re-presented with each execution of the imager.

Active Images		
Name	Source Device	Last Status
 ExampleImage-PhysicalDisk1	\\.\PhysicalDrive1	16%

Active imaging operations will appear in the “Active Images” panel. The Last Status field will update as the image operation progresses.

If the image completes successfully it will be removed from the Active Images panel and will appear in the Completed Images panel. There are multiple options for a completed Image, including:

Completed Images	
Name	Source
 ExampleImage-PhysicalDisk1	\\.\PhysicalDrive1



- Stop Image
- Remove Image
- Restart Physical Image...
- Open Image Path
- Open Image Log
- Open Image FileList

### Remove Image

Removes the Image from the F-Response Imager. This does not delete the image or resultant log files, it only removes the Imager from the F-Response Imager console.

### Open Image Path

Use this option to open Windows Explorer directly to the location of the newly created Image file(s).

### Open Image Log

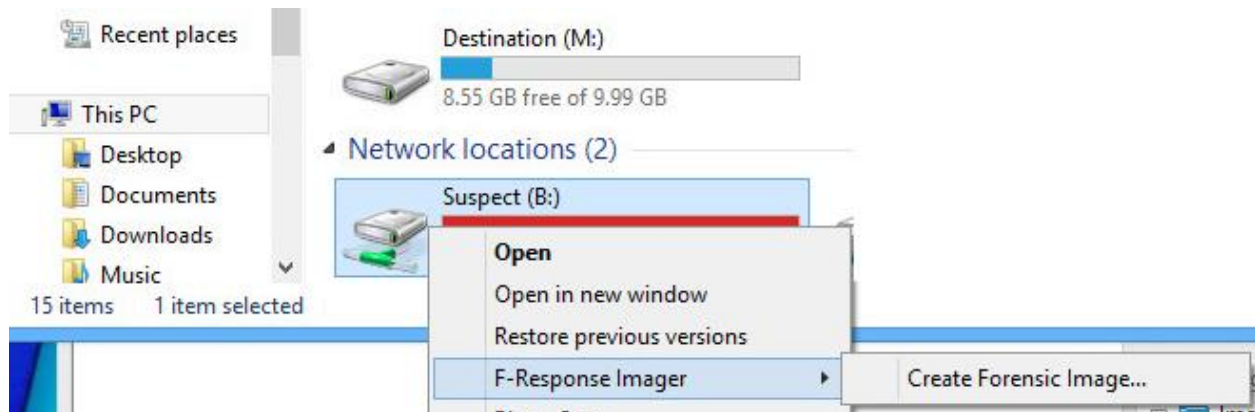
Use this option to open the Image “.log” file directly.

### Open Image FileList

Use this option to open a listing of the files copied during the image (Logical and Container Images only).

## Creating a Physical Image from Windows Explorer

The F-Response Imager provides the ability to make Physical Images of attached F-Response presented physical devices directly from Windows Explorer. This patent pending feature can be leveraged using the right click context menu from any F-Response presented fixed or removable disk in Windows Explorer.





## Creating a Physical Image using COM Scripting

Physical Images of F-Response presented devices can be created directly from any scripting language that supports COM. Included below is a sample script for creating a Physical Image using Powershell. Do **not** run Powershell using an elevated credential (ie Run as Admin).

```
#####
# F-Response Imager Script for imaging a physical device
# Pre-requisites: F-Response Imager
# Author: M. Shannon
# usage, physical-imager-script.psl -sourcedevice <\\.\PhysicalDriveX> -
destinationpath <DESTINATIONPATH Ex. E:\> -imagename <IMAGENAME Ex. XYZImage>
# -examinername <EXAMINER Ex. "Joe Examiner"> -desc <DESCRIPTION Ex. "Some Image
Desc"> -casenum <CASENUM Ex. "Case123"> -evidencenum <EVIDENCENUMBER Ex.
"Evidence123"> -notes <NOTES Ex. "Some Notes">
# -hash <Md5=1, Sha1 = 2, Both = 3 Ex. 1> -compression <None = 0, Fast = 1, Normal =
6, High =9 Ex. 1>
#####
Param(
    [parameter(Mandatory=$true)]$sourcedevice,
    [parameter(Mandatory=$true)]$destinationpath,
    [parameter(Mandatory=$true)]$imagename,
    [parameter(Mandatory=$true)]$examinername,
    [parameter(Mandatory=$true)]$desc,
    [parameter(Mandatory=$true)]$casenum,
    [parameter(Mandatory=$true)]$evidencenum,
    [parameter(Mandatory=$true)]$notes,
    [parameter(Mandatory=$true)]$hash,
    [parameter(Mandatory=$true)]$compression
)

Set-Variable Imaging 1
Set-Variable Complete 2
Set-Variable Error 5

#initialize the com library
$fresponseimager = New-Object -comObject frimagerserver.FRImager

#start the image
$imageid =
$fresponseimager.CreatePhysicalImage($sourcedevice,$destinationpath,$imagename,$examin
ername,
$desc,$casenum,$evidencenum,$notes,$hash,$compression)

if($imageid -eq 0){
    write "Error starting image, check the event logs for further information."
    [System.Runtime.InteropServices.Marshal]::ReleaseComObject($fresponseimager)
    Remove-Variable fresponseimager
    Exit(1)
}

$imagestate = $fresponseimager.ImageState($imageid)
$imagelaststatus = $fresponseimager.ImageLastStatus($imageid)
write "Beginning Image..."
write $imagelaststatus

do {
    Start-Sleep -sec 1
    $imagelaststatusnew = $fresponseimager.ImageLastStatus($imageid)
    if ($imagelaststatusnew -ne $imagelaststatus){
```

```
        write $ImageLastStatusNew
        $ImageLastStatus = $ImageLastStatusNew
    }
    $ImageState = $fresponseimager.ImageState($ImageId)
}while($ImageState -eq $Imaging)

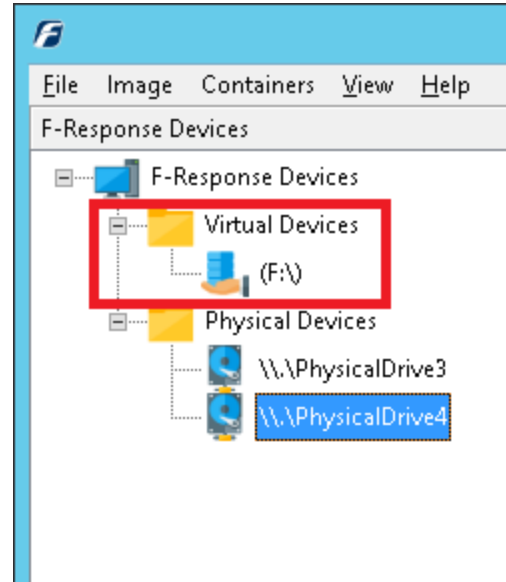
if ($ImageState -eq $Complete){
    write "Image Completed Successfully"
}
if ($ImageState -eq $Error){
    write "Image Ended with Error"
}
$fresponseimager.RemoveImage($ImageId)

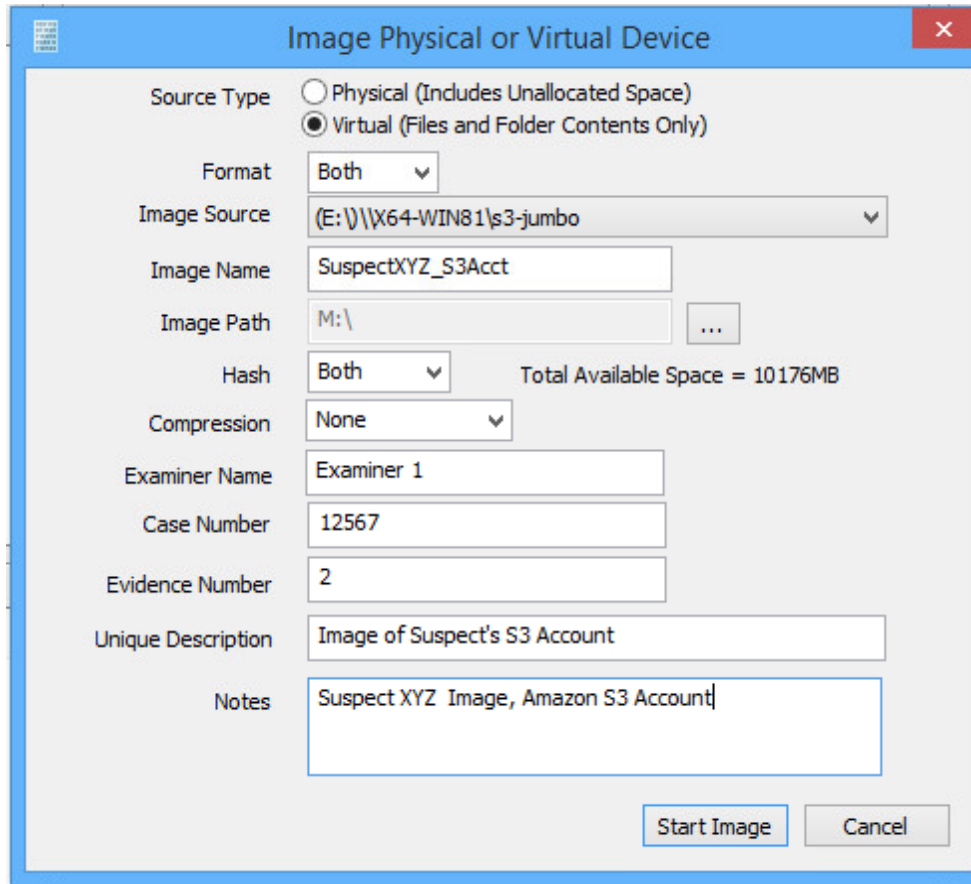
[System.Runtime.InteropServices.Marshal]::ReleaseComObject($fresponseimager)
Remove-Variable fresponseimager
```

## Logical Image

### Creating a Logical Image from the Console

The F-Response Imager provides the ability to make Logical Images of attached Virtual Devices (DiscoveryShares™, MemoryShares™, and F-Response Connector Volumes™). Use the File->New Image... menu option to open a dialog for creating a new Logical Image.





Creating a Logical Image requires the following dialog items be completed.

#### **Source Type**

You must select Logical as your source type.

#### **Format**

You can create your image in Expert Witness format (E01), a Virtual Hard Disk (VHD), or both.

#### **Image Source**

You must select a valid network drive or virtual device from the list of available devices to be imaged.

#### **Image Name**

You must input a valid file name for the Image you will be creating.

#### **Image Path**

You must use the “...” button to locate a suitable location to save your image files to, image files may NOT be saved to network shares.

#### **Hash**


You must select a valid Hash: MD5, SHA1, or both.

#### **Compression**



You have the option to enable compression of your image, where ‘Fast’ offers slight compression but fastest imaging speed, ‘Normal’ is the middle of the compression/speed scale, and ‘High’ offers the

highest compression but slower imaging time. The default setting is 'None' if compression of the image is not needed.

All other fields are optional; they will be saved for your user account and will appear with each execution of the Imager.

Active Images		
Name	Source Device	Last Status
 SuspectS3Account	\\WIN8-DEV-X64\s3-standard	Copying...

If the image completes successfully it will be removed from the Active Images panel and will appear in the Completed Images panel. There are multiple options for a completed Image, including:

Completed Images	
Name	Source
 SuspectS3Account	\\?\Volume{de69f949-690a-11e5-8253-000c29be9ea2}
 Example	\\.\PhysicalDrive1

Name: SuspectS3Account  
Source: \\?\Volume{de69f949-690a-11e5-8253-000c29be9ea2}  
Destination: G:\  
Description: Image of Suspect's S3 Acct  
MD5: 3ba0e50add429cba56a71ea011103e04  
SHA1: 00

### Remove Image

Removes the Image from the F-Response Imager. This does not delete the image or resultant log files, it only removes the Imager from the F-Response Imager console.

### Open Image Path

Use this option to open Windows Explorer directly to the location of the newly created Image file(s).

### Open Image Log

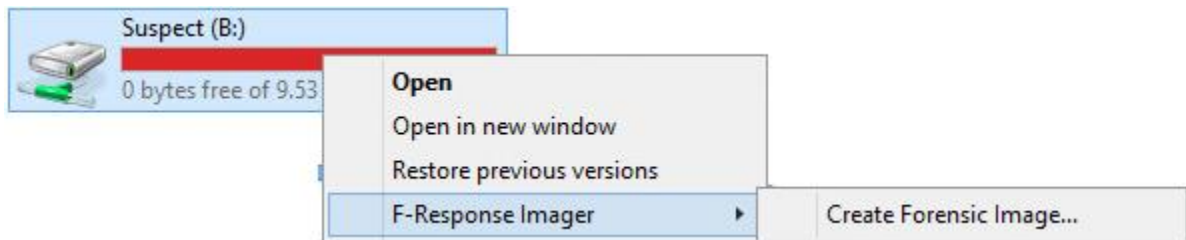
Use this option to open the Image ".log" file directly.

### Open Image FileList

Use this option to open a listing of the files copied during the image (Logical and Container Images only).

## Creating a Logical Image from Windows Explorer

The F-Response Image provides the ability to make Logical Images of F-Response attached Virtual Devices directly from Windows Explorer. This patent pending feature can be leveraged using the right click context menu from any network share presented by Windows Explorer.



## Creating a Logical Image using COM Scripting

Logical Images can be created directly from any scripting language that supports COM. Included below is a sample script for creating a Logical Image using Powershell. Do not run Powershell using an elevated credential (ie Run as Admin).

```
#####
# F-Response Imager Script for imaging a logical device (network share)
# Pre-requisites: F-Response Imager
# Author: M. Shannon
# usage, logical-imager-script.ps1 -sourcedevice <X:\> -imagename <IMAGENAME Ex.
XYZImage> -outformat <E0x = 1, VHD = 2, Both = 3 Ex. 1>
# -destinationpath <DESTINATIONPATH Ex. E:\>
# -examinername <EXAMINER Ex. "Joe Examiner">
# -desc <DESCRIPTION Ex. "Some Image Desc">
# -casenum <CASENUM Ex. "Case123">
# -evidencenum <EVIDENCENUMBER Ex. "Evidencel23">
# -notes <NOTES Ex. "Some Notes">
# -hash <Md5=1, Sha1 = 2, Both = 3 Ex. 1>
# -compression <None = 0, Fast = 1, Normal = 6, High =9 Ex. 1>
#####
Param(
    [parameter(Mandatory=$true)]$sourcedevice,
    [parameter(Mandatory=$true)]$imagename,
    [parameter(Mandatory=$true)]$outformat,
    [parameter(Mandatory=$true)]$destinationpath,
    [parameter(Mandatory=$true)]$examinername,
    [parameter(Mandatory=$true)]$desc,
    [parameter(Mandatory=$true)]$casenum,
    [parameter(Mandatory=$true)]$evidencenum,
    [parameter(Mandatory=$true)]$notes,
    [parameter(Mandatory=$true)]$hash,
    [parameter(Mandatory=$true)]$compression
)

Set-Variable Imaging 1
Set-Variable Complete 2
Set-Variable Error 5

#initialize the com library
$fresponseimager = New-Object -comObject frimagerserver.FRImager

#start the image
$imageId =
$fresponseimager.CreateLogicalImage($sourcedevice,$imagename,$outformat,$destinationpa
th,$examinername,
$desc,$casenum,$evidencenum,$notes,$hash,$compression)

if($imageId -eq 0){
    write "Error starting image, check the event logs for further information."
    [System.Runtime.InteropServices.Marshal]::ReleaseComObject($fresponseimager)
    Remove-Variable fresponseimager
    Exit(1)
}
```

```
$ImageState = $fresponseimager.ImageState($ImageId)
$ImageLastStatus = $fresponseimager.ImageLastStatus($ImageId)
write "Beginning Image..."
write $ImageLastStatus

do {
    Start-Sleep -sec 10
    $ImageLastStatusNew = $fresponseimager.ImageLastStatus($ImageId)
    if ($ImageLastStatusNew -ne $ImageLastStatus){
        write $ImageLastStatusNew
        $ImageLastStatus = $ImageLastStatusNew
    }
    $ImageState = $fresponseimager.ImageState($ImageId)
}while($ImageState -eq $Imaging)

if ($ImageState -eq $Complete){
    write "Image Completed Successfully"
}
if ($ImageState -eq $Error){
    write "Image Ended with Error"
}
$fresponseimager.RemoveImage($ImageId)

[System.Runtime.InteropServices.Marshal]::ReleaseComObject($fresponseimager)
Remove-Variable fresponseimager
```

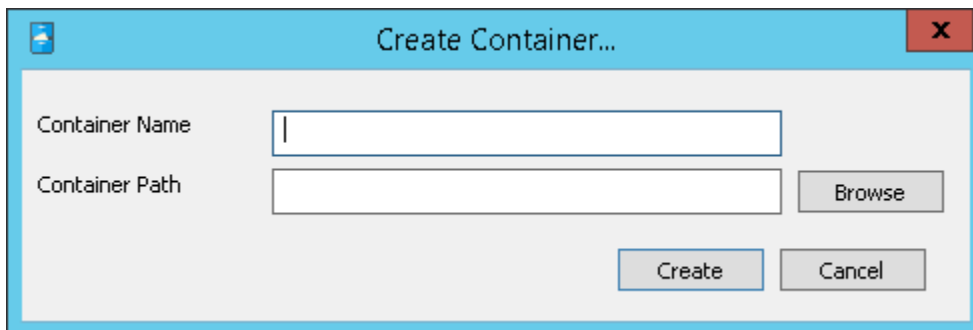
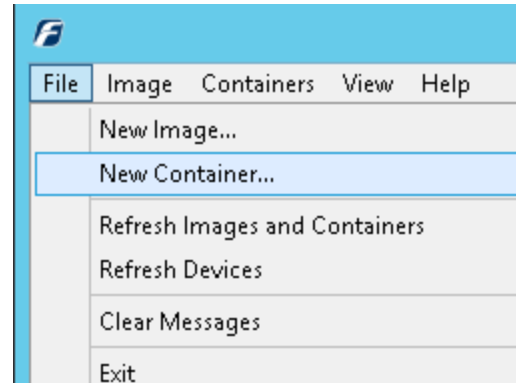


## Container

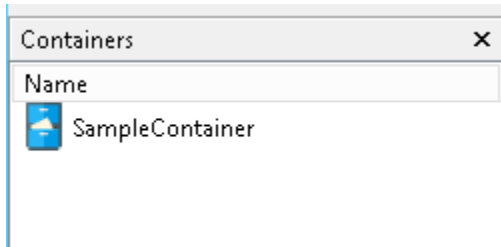
### Creating a Container

The F-Response Imager provides the ability to make a Container of Files and Folders from attached devices, both physical and virtual. Use the File->New Container... menu option to open a dialog for creating a new Container.

Containers contain only references to the files and folders added to them. A container must be converted to an image to actually acquire the files and folders added.

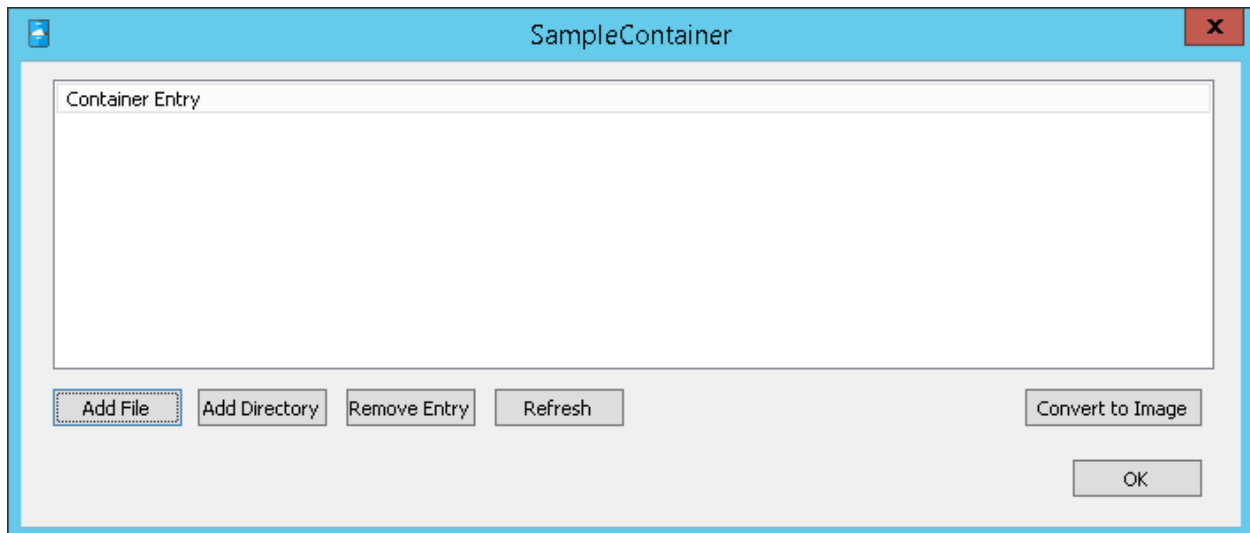


Once you have created the container you can find it under the Containers in the Console.



Double click on it to open.

## Adding Files and Folders to a Container via the Console



### **Add File**

Adds a new File to the Container. This is a reference to the file only, no actual files are copied until the container has been converted to an Image.

### **Add Directory**

Adds a new Directory to the Container. This is a reference to the directory only, no actual directories or their content are copied to until the container has been converted to an image. Added Directories are considered recursive, therefore all child items will be added automatically during the conversion to an Image.

### **Remove Entry**

Removes a File or Directory from the Container.

### **Refresh**

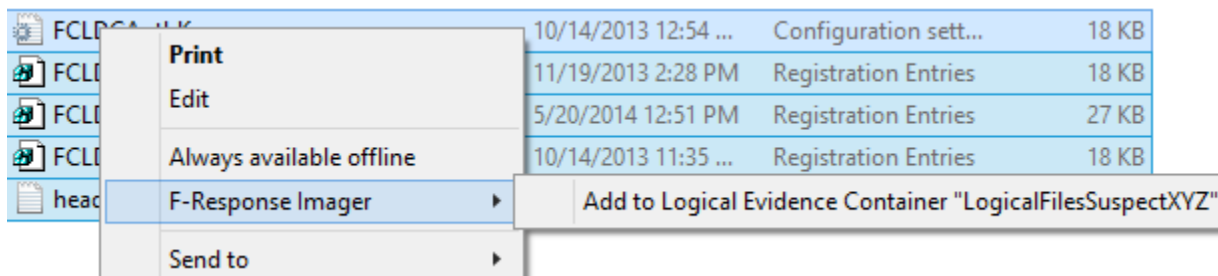
Will refresh the list of files and folders currently in the Container.

### **Convert to Image**

Will close the Container and open the Create Image dialog where the details of the image can be specified.

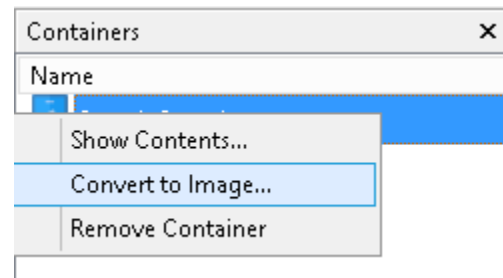
## Adding Files and Folders to a Container via Windows Explorer

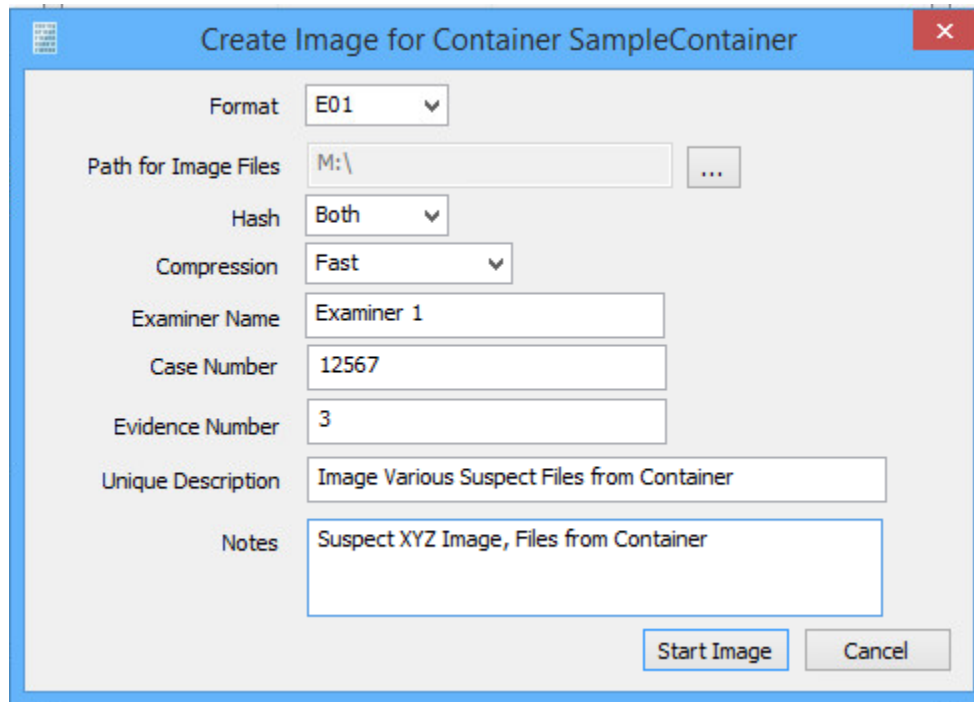
The F-Response Image provides the ability to add files and directories to Containers via Windows Explorer. This patent pending feature can be leveraged using the right click context menu from any file or directory presented by Windows Explorer.



## Closing and Imaging a Container via the Console

Once all files and directories have been added to the Container it must be converted to an Image to copy and preserve the content requested. Use the Containers->Convert to Image... menu item to begin this process.





### **Format**

E01 (Expert Witness), VHD (Virtual Hard Disk), or Both. The choice of format determines what the Imager will provide at the end of the conversion process.

### **Hash**

You must select a valid Hash, MD5 or SHA1.

### **Compression**

You must select a compression method.

All other options are optional and will be saved for your user account and re-presented with each execution of the imager.

## Appendix A.

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### Legal Notices

Copyright © 2015 Agile Risk Management, LLC. All rights reserved.

This document is protected by copyright with all rights reserved.

### Trademarks

F-Response®, DiscoveryShare™, MemoryShare™, are trademarks of Agile Risk Management, LLC. All other product names or logos mentioned herein are used for identification purposes only, and are the trademarks of their respective owners.

### Statement of Rights

Agile Risk Management, LLC products incorporate technology that is protected by U.S. patent and other intellectual property (IP) rights owned by Agile Risk Management LLC, and other rights owners. Use of these products constitutes your legal agreement to honor Agile Risk Management, LLC's IP rights as protected by applicable laws. Reverse engineering, de-compiling, or disassembly of Agile Risk Management, LLC products is strictly prohibited.

### Disclaimer

While Agile Risk Management LLC has committed its best efforts to providing accurate information in this document, we assume no responsibility for any inaccuracies that may be contained herein, and we reserve the right to make changes to this document without notice.

### Patents

F-Response® is covered by United States Patent Numbers: 8,171,108; 7,899,882, 9,037,630; 9,148,418; and other Patents Pending.

## Appendix B.

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### Release History

7.0.4.4 -> Updated the VHD shrink operation to improve virtual device image size.

7.0.1.101 -> Version migrated to be in line with the v7 scheme. Numerous minor modifications to allow the imager to run seamlessly as a part of F-Response v7. For now this standalone imager package will only exist for F-Response Universal/Now customers. V7 users do not need to install this package.

2.0.1.23 -> F-Response Imager worker process updated to handle large error messages. F-Response Imager Main Console updated to clear and restart Messages window in the event the Messages window becomes full.

2.0.1.22 -> F-Response Imager updated to provide more feedback to the user when creating virtual device images. Updated the Imager internals to better handle image restart/resume operations and confirm proper drive selection. Corrected minor user interface issues, icons, positioning, error message verbiage, etc. Updated imager worker processes to handle non-standard image header inputs. Imager DCOM server modified to no longer require user credential input to generate logical images of Containers or Virtual Devices. User interface corrections based on feedback from users. Image log clock adjustment for images completing in over 24 hours. Image restart process improved and streamlined.

2.0.1.11 -> F-Response Imager User Interface completely redesigned. Corrections and adjustments to the internal COM scripting library to allow Container creation in script. Additional modifications based on user experience feedback. Improvements to the physical image restart process.

Initial Release -> 1.0.0.41

## Appendix C.

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### Master Software License Agreement

#### AGILE RISK MANAGEMENT LLC MASTER SOFTWARE LICENSE AGREEMENT

#### TERMS AND CONDITIONS

1. Scope of Agreement; Definitions. This Agreement covers the license and permitted use of the Agile Risk Management LLC (“Agile”) F-Response Software. Unless otherwise defined in this section, the capitalized terms used in this Agreement shall be defined in the context in which they are used. The following terms shall have the following meanings:

1.1. “Agile Software” or “Software” means any and all versions of Agile’s F-Response software and the related “Documentation” as defined below.

1.2. “Customer” or “Licensee” means the person or entity identified on the invoice and only such person or entity, Customer shall not mean any assigns, heirs, or related persons or entities or claimed third-party beneficiaries of the Customer.

1.3. “Documentation” means Agile release notes or other similar instructions in hard copy or machine readable form supplied by Agile to Customer that describes the functionality of the Agile Software.

1.4. “License Term” means the term of the applicable license as specified on an invoice or as set forth in this Agreement.

2. Grant of Software License.

2.1. Enterprise License. Subject to the terms and conditions of this Agreement only, Agile grants Customer a non-exclusive, non-transferable license to install the Agile Software and to use the Agile Software during the License Term, in object code form only.

2.2. Third Party Software. Customer acknowledges that the Agile Software may include or require the use of software programs created by third parties, and the Customer acknowledges that its use of such third party software programs shall be governed exclusively by the third party’s applicable license agreement.

3. Software License Restrictions.

3.1. No Reverse Engineering; Other Restrictions. Customer shall not, directly or indirectly: (i) sell, license, sublicense, lease, redistribute or transfer any Agile Software; (ii) modify, translate, reverse engineer, decompile, disassemble, create derivative works based on, or distribute any Agile Software; (iii) rent or lease any rights in any Agile Software in any form to any entity; (iv) remove, alter or obscure any proprietary notice, labels or marks on any Agile Software. Customer is responsible for all use of the Software and for compliance with this Agreement and any applicable third party software license agreement.

3.2. Intellectual Property. Agile retains all title, patent, copyright and other intellectual proprietary rights in, and ownership of, the Agile Software regardless of the type of access or media upon which the original or any copy may be recorded or fixed. Unless otherwise expressly stated herein, this Agreement does not transfer to Customer any title, or other ownership right or interest in any Agile Software. Customer does not acquire any rights, express or implied, other than those expressly granted in this Agreement.



4. Ordering & Fulfillment. Unless otherwise set forth in an Agile-generated Estimate pricing is set forth on the F-Response website and is subject to change at any time. Each order shall be subject to Agile's reasonable acceptance. Unless otherwise set forth in an Agile generated Estimate. Delivery terms are FOB Agile's shipping point.

5. Payments. Customer agrees to pay amounts invoiced by Agile for the license granted under this Agreement. If any authority imposes a duty, tax or similar levy (other than taxes based on Agile's income), Customer agrees to pay, or to promptly reimburse Agile for, all such amounts. Unless otherwise indicated in an invoice, all Agile invoices are payable thirty (30) days from the date of the invoice. Agile reserves the right to charge and Customer agrees to pay Agile for every unauthorized copy or unauthorized year an amount equal to the cost per copy, per year, per computer, or per user, whichever is greater, as a late payment fee in the event Customer fails to remit payments when due or Customer otherwise violates the payment provisions of this Agreement. In addition to any other rights set forth in this Agreement, Agile may suspend performance or withhold fulfilling new Customer orders in the event Customer has failed to timely remit payment for outstanding and past due invoices.

6. Confidentiality.

6.1. Definition. "Confidential Information" means: (a) any non-public technical or business information of a party, including without limitation any information relating to a party's techniques, algorithms, software, know-how, current and future products and services, research, engineering, vulnerabilities, designs, financial information, procurement requirements, manufacturing, customer lists, business forecasts, marketing plans and information; (b) any other information of a party that is disclosed in writing and is conspicuously designated as "Confidential" at the time of disclosure or that is disclosed orally and is identified as "Confidential" at the time of disclosure; or (c) the specific terms and conditions of this Agreement.

6.2. Exclusions. Confidential Information shall not include information which: (i) is or becomes generally known to the public through no fault or breach of this Agreement by the receiving Party; (ii) the receiving Party can demonstrate by written evidence was rightfully in the receiving Party's possession at the time of disclosure, without an obligation of confidentiality; (iii) is independently developed by the receiving Party without use of or access to the disclosing Party's Confidential Information or otherwise in breach of this Agreement; (iv) the receiving Party rightfully obtains from a third party not under a duty of confidentiality and without restriction on use or disclosure, or (v) is required to be disclosed pursuant to, or by, any applicable laws, rules, regulatory authority, court order or other legal process to do so, provided that the Receiving Party shall, promptly upon learning that such disclosure is required, give written notice of such disclosure to the Disclosing Party.

6.3. Obligations. Each Party shall maintain in confidence all Confidential Information of the disclosing Party that is delivered to the receiving Party and will not use such Confidential Information except as expressly permitted herein. Each Party will take all reasonable measures to maintain the confidentiality of such Confidential Information, but in no event less than the measures it uses to protect its own Confidential Information. Each Party will limit the disclosure of such Confidential Information to those of its employees with a bona fide need to access such Confidential Information in order to exercise its rights and obligations under this Agreement provided that all such employees are bound by a written non-disclosure agreement that contains restrictions at least as protective as those set forth herein.

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