
Using the InstallAnywhere Unloader

Technical Note Hqn075

September 2010



1 Introduction

This document describes how to use the InstallAnywhere Unloader supplied with Harlequin products. The Unloader is an installation mode that copies or unloads the raw original files and directory structure from the CD-ROM to your disk, as it would have been before being packaged into the installer. The purpose of the Unloader is to support OEMs who have installer rebuilding processes.

2 What you need

In order to create an InstallAnywhere installer from the Unloaded files, it is essential that you have the InstallAnywhere environment installed on your Windows platform. InstallAnywhere may be purchased from:

(<http://www.flexerasoftware.com/products/installanywhere.htm>)

You will require the Enterprise Edition.

3 Unloading the products

The “Unloader” facility is supplied as an integral part of the Harlequin Print Production Manager, JDF Enabler and SOAR SDK InstallAnywhere package. The Harlequin RIP Unloader, due to the size of the files involved, is supplied as a separate CD-ROM.

3.1 Unloading the Harlequin RIP

Supplied with the Harlequin RIP is the Unloader CD-ROM. It is designed to run on Windows systems only. Install the files as follows:

1. Insert the Unloader CD ROM.
2. Run the unloader:

```
Unload_<customer_name>.exe
```

3. Follow the on-screen instructions. Select the **Next** button to move onto the next screen and the **Previous** button to return to a previous screen. Note that each screen of the install procedure is labelled both above and at the left side of the window.

4. When you select a product, a short description of its function appears. Those products not checked in the list will not be installed.
5. Use the “Choose Install Folder” screen to select an installation folder.

If you wish you can choose a different install folder to the default. Click **Choose...** and navigate to the required folder. If you do choose another location the path/directory name *must not* include spaces. If at any time you wish to restore the default location click **Restore Default Folder**. Click **Next** to install in the desired location and move onto the next stage.
6. The “Pre-installation Summary” screen allows you to examine your installation choices. If required, use the **Previous** button to return to earlier screens and modify your selections, otherwise click **Install** to proceed with the installation.
7. The installation will now continue. This may take some minutes. A progress indicator is displayed at the bottom of the dialog box.
8. The “Install Complete” screen indicates that the installer has finished. If any errors have occurred a message will be displayed. Click **Done** to exit from the installer. You can view the details of the errors by opening the `<product_name>_Unload_for_<customer_name>` file which is located in the installation folder.

9. Running the Unloader creates the default directory:

C:\<product_name>_Unload_<customer_name>

With the contents similar to those shown in Figure 1 The use of these files is described in “Using the unloaded files” on page 6.

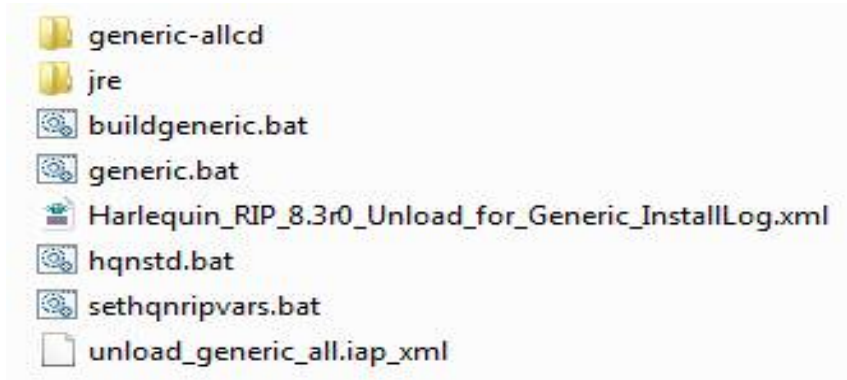


Figure 1 Unloaded files

3.2 Unloading SOAR/PPM/JDF Enabler files

As part of the InstallAnywhere install process for SOAR SDK, JDF Enabler and the Harlequin Print Production Manager you are given the option to unload all files for the product.

Use the following procedure:

1. Double-click **install.exe**.
2. A “Preparing to Install” dialog box may be displayed while the installer is preparing.
3. The InstallAnywhere window is displayed.
Follow the on-screen instructions for the install.
4. The PRE-REQUISITES window lists the items that must be installed before running the product. The Prerequisites are required for a normal installation but are irrelevant to the Unload process. Check the **Please confirm reading the above message** check box before continuing,

5. In the “Choose Install Set” windows a number of options are provided. The Unload option is listed last.



Figure 2 Choose Install Set window

Unload all Files

This option copies all files, for all platforms, from the installer to the destination directory. The installation can not be run as an application. No uninstaller is created. This option is used to help OEMs repackaging this product in their own products.

6. The “Choose Install Folder” window provides the option to install the SOAR SDK into the default location by clicking **Next**, or to choose another location. If you do choose another location it is recommended that the path/directory name does not include any spaces.
7. The “Pre-Installation Summary” describes the location of the configuration files created during installation.
Click **OK** to complete the installation process.

4 Using the unloaded files

The following section describes the files you will find in the Unload directories once the Unload process is complete, and the process by which an InstallAnywhere distribution package for the product is created. There are two methods, via the command line or via the InstallAnywhere GUI. The approach to each is similar. For the purposes of this document the command line approach is used to create the RIP InstallAnywhere while the GUI is used to create the SOAR SDK or SWWebGUI InstallAnywhere.

4.1 Harlequin RIP

The following files and directories will be found in the following directory:

<installation directory>\<HarlequinRIP_<version>_Unload_<customer_name>

generic_allcd This directory contains all the files needed to create the RIP executable and the InstallAnywhere package.

<customer name>.bat
Sets up the environment variables for
<customer_name>.

build<customer_name>.bat
This file is used to create the InstallAnywhere installer needed to build a RIP executable. It is the only file which you need to run if you are creating your own installation. You must have the InstallAnywhere environment installed in order for this batch file to run successfully.

unload_<customer_name>_all.iap.xml
The InstallAnywhere project file.

sethqnrivars.bat
Called by **<customer_name>.bat**. Contains data used to setup environment variables.

hqnstd.bat Present in most builds. Used by **<customer_name>.bat** to set up the standard plugin and RIP versions.

4.2 Building the RIP InstallAnywhere

Note: To build installers for RIPs on multiple platforms, you should run the Unloader.

The following section describes how to build the RIP InstallAnywhere package for the platform you require:

1. Ensure that the InstallAnywhere operating environment is installed on your Windows machine.
2. If you are building InstallAnywhere for Windows or Linux environments ensure that the Java VM files relevant to that platform have been downloaded to your InstallAnywhere installation.

You should ensure that the VM files downloaded are SUN JRE 1.6_0x files relevant to the platform. They are available from the Flexera web site:

3. Typing `path` on the command line will display the `PATH` environment variable for the InstallAnywhere environment. Add the InstallAnywhere folder to the `PATH` variable.
4. Move to the Unloaded InstallAnywhere folder.
5. To build the InstallAnywhere installer run the build batch file by typing:

```
build<customer_name>
```

for example:

```
buildgeneric
```

6. The InstallAnywhere files for the platform you require are built at:

```
<customer_name>_Build_Output\WebInstaller\Inst Data\  
<platform>\VM
```

Note: No `\VM` subfolder for the MacOS X platform.

The InstallAnywhere file you have built can now be used in exactly the same way as prebuilt files on the installation CD. See the *Installation Guide* for your particular platform for details of how to install the RIP from the InstallAnywhere package.

4.3 SOAR SDK, JDF Enabler and PPM

The following files and directories will be found in the unload directory:

Documentation

Files used by InstallAnywhere to build the SOAR SDK or SWWebGUIServices packages.

SOAR

Files used by InstallAnywhere to build the SOAR SDK or SWWebGUIServices packages.

Uninstall_SOAR_SDK

The uninstaller directory is created as an unwanted by-product of running an InstallAnywhere installer that combines Unload and true installation options. This directory is not used; it may be removed if required.

InstallAnywhere

Contains **setvars.bat** and **SWWebGUI.iap_xml**.

ThirdParty

Files used by InstallAnywhere to build the SOAR or WebGUIServices packages.

iainstaller.properties

Installer file for ad hoc builds.

The following section describes how to build the RIP InstallAnywhere package for the platform you require:

1. Ensure that the InstallAnywhere operating environment is installed on your Windows machine.

2. If you are building InstallAnywhere for Windows or Linux environments ensure that the Java VM files relevant to that platform have been downloaded to your InstallAnywhere installation.

You should ensure that the VM files downloaded are SUN JRE 1.6_0x files relevant to the platform. They are available from the Macrovision web site:

http://www.acresso.com/downloads/downloads_7150.htm

If you wish to create a modified version of these files or are having problems downloading them, instructions for creating a VM pack can be found in the following location under **Virtual Machines > Creating a VM pack**:

http://www.zerog.com/iamanual/usermanual_ia55/Web-Help/start.htm

3. The `setvars.bat` file is found in the `<Unload directory>\InstallAnywhere` directory. The `setvars.bat` file is used for setting up the environment variables and properties file required by the InstallAnywhere build process. However, the `setvars.bat` file supplied is suitable for Global Graphics' internal build environment; it requires editing to be suitable for an OEM's build environment. For an ad-hoc command-line-driven run of the build process, we recommend the following edits:
4. The code up to the label `:ParamsOK` is for interpreting command-line parameters from an automatic build system, which feed into calculation of the `IA_PATH_DISTRIBUTION_BASE` environment variable, providing the base source path to InstallAnywhere. It is not needed for an ad-hoc build.

The simplest thing is to replace the whole section by a single statement that sets `IA_PATH_DISTRIBUTION_BASE` to the base directory of the Unloaded distribution.

For example:

```
SET IA_PATH_DISTRIBUTION_BASE=c:\SWWebGUI_Unload
```

5. The code from `set BUILD_REGIME=...` up to, but not including, `set PROP_FILE=...` sets up other source paths for InstallAnywhere.

This code should be retained unaltered.

6. The code from:

```
set PROP_FILE=...
```

is for generating the **iainstaller.properties** file from scratch. However, a suitable **iainstaller.properties** file for ad-hoc builds is already included with OEM distributions.

Therefore, all code from `set PROP_FILE=...` onwards may simply be removed.

7. At the command prompt, type:

```
setvars
```

8. At the command prompt type:

```
start SWWebGUI.iap_xml
```

9. In the InstallAnywhere GUI click the **Build** button.
10. The InstallAnywhere files for the platform you require are built at:

```
<customer_name>_Build_Output\WebInstaller\Inst Data\  
<platform>\VM
```

The InstallAnywhere file you have built can now be used in exactly the same way as prebuilt files on the installation CD. See the relevant manual for further installation instructions.

4.4 Harlequin License Server

On Windows, several components of these products require that some run-time libraries from Microsoft Visual Studio 2005 are installed on the target machine. These specific Windows DLLs are freely redistributable to any Windows system, and the VC8 runtime library is required for HLS to run. The Global Graphics InstallAnywhere installer invokes the sub-installer supplied by Microsoft (**vcredist_x86.exe**) at the time of installation. Your own installer will need to do the same. The unloader puts **vcredist_x86.exe** at:

```
HarlequinRIP_<version>_Unload_<customer>\generic-allcd\Third-  
Party\MSVCRT\2005SP1\<final>\win_32-pentium\
```

Note: You must run **vcredist_x86.exe** before installing HLS in your installer.

5 Document History

Change history		
v1.4	14.09.2010	Updated.
v1.3	08.06.2009	Update URL links.
v1.2	19.02.2009	Added HLS information and InstallAnywhere edition.
v1.1	09.01.2008	Small corrections.
v1.0	20.11.2007	New document.



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Version 1.4: September 2010

Part number: Hqn075

Document issue: 106

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