HiJaak PRO System Integrator Notes (DDE)

Introduction

This document explains how to connect Windows applications to HiJaak PRO via HiJaak's command line interface or Windows Dynamic Data Exchange (DDE). You can make these connections by writing a macro from your application or by writing a program as in Visual Basic or Winbatch. Applications that support DDE links can call HiJaak PRO to perform a certain task. Refer to your application's documentation for instruction on writing macros to do this.

An example of a macro written in Excel and a batch file written in Winbatch are given in the *Examples* section at the end of this document.

Command Line Interface

You can write a macro in your application to use the HiJaak PRO command line to view, print, or convert a file. If you use a macro to convert a file, HiJaak PRO will stay open even after the conversion has been completed. If you want to close HiJaak PRO after the conversion is complete, type /UNLOAD on the HiJaak PRO command line. For example, try this from the Program Manager Run command:

c:\inset\HJPRO c:\inset\samples\goldn256.iff c:\inset\image.bmp /unload

When HiJaak PRO completes converting the file, it broadcasts a WM_USER+999 message to all Windows applications.

Dynamic Data Exchange

When you run HiJaak PRO, it registers with Windows as a DDE server. The DDE server name is "HiJaak". Other applications can then make a request to HiJaak PRO to perform a certain task. This request is a DDE transaction and is often referred to as a "conversation," because both applications must communicate with each other to complete the link. HiJaak PRO supports the following DDE transactions:

Close
Convert
Import
ImportToClipboard
Minimize
Open
Print
SetDestOptions
SetSourceOptions
SetTag
SourceFormatsList

Each is described below.

> **Important:** HiJaak PRO must be running in order to register with Windows as a DDE server. Therefore, the DDE link uses the setfile that HiJaak PRO has loaded when it performs the conversion. This may yield different results on different machines. Make sure HiJaak PRO has the correct setfile loaded when you call the DDE link.

Close

To make a DDE request to close HiJaak PRO, specify

Server: HiJaak
Topic: Request
Item(parameter): Close()

There are no parameters in this DDE link. When you execute this DDE link, HiJaak PRO closes.

Convert

To make a DDE request to convert, specify

Server: HiJaak
Topic: Request
Item(parameter): CONVERT(SourceFile,DestFile)

Each of the parameters are defined as follows:
⊠ The "SourceFile" is the file you want to convert.
⊠ The "DestFile" is the file you want to convert to.

For example, a DDE link in which you wanted to convert ROSE.PCX to ROSE.BMP, both on your hard drive, would be as follows:

CONVERT(c:\rose.pcx,c:\rose.bmp)

When you execute this DDE link, HiJaak PRO converts the SourceFile to the DestFile. When HiJaak PRO completes the conversion, it will give the application a message telling whether the conversion was successful. A return message of "0" indicates a successful conversion. A return message of any other number indicates an error.

If you do not specify a parameter in the Convert request, then HiJaak PRO looks for a Convert profile string in the HiJaak section of your WIN.INI file. This alternative if useful if your DDE client application has string length limitations. Specify the WIN.INI information as follows:

[HIJAAK]
CONVERT=SourceFile,DestFile

Import

For the Import transaction, specify:

Server: HiJaak
Topic: Request
Item(parameter): Import(Vector Type, Raster Type [,Title Text[,DestDir])

Each of the parameters are defined as follows:
⊠ The "Vector Type" is the 3-letter extension of the vector format to which you want HiJaak PRO to convert vector images before importing into your application.
⊠ The "Raster Type" is the 3-letter extension of the raster format to which you want HiJaak PRO to convert raster images before importing into your application.
⊠ The "Title Text" is the name in the title bar of the HiJaak PRO dialog box that appears when you call this DDE link.
⊠ The "DestDir" is the path and directroy in which HiJaak PRO places converted files.

For example a DDE link with WordPerfect for Windows might be:

IMPORT(WPG,TIF,HiJaak Retrieve,C:\MyDir)

When you execute this DDE link (usually through a Macro), the HiJaak PRO Import dialog box appears (with the title bar you requested in the "Title Text" section of the above parameter). In this dialog box, you can select the file you want to import. HiJaak PRO determines whether the file you selected is vector or raster, and then converts it to the type you specified in the respective parameter. HiJaak PRO stores the file in the destination directory you specified in the DestDir parameter. HiJaak PRO then tells your application the name of the file, enabling the application to import it. If an error occurs, then HiJaak PRO will send the application a Cancel message.

If you do not specify a "Vector Type" in the Import parameter, then HiJaak PRO assumes that your application does not support vector files. If you do not specify a "Raster Type" in the Import Parameter, then HiJaak PRO assumes that your application does not support raster files. For example, if you wrote the following DDE link for WordPerfect for Windows,

IMPORT(,TIF,HiJaak Retrieve,C:\MyDir)

then HiJaak PRO would assume that WordPerfect for Windows does not support vector images. Therefore, HiJaak PRO will not allow you to select vector images when you execute the DDE link.

If you do not include a parameter list with the Import request, then HiJaak PRO will look for an Import profile string in the HiJaak section of your WIN.INI file. This alternative if useful if your DDE client application has string length limitations.   Specify the WIN.INI information as follows:

[HIJAAK]
IMPORT=WPG,TIF,HiJaak Retrieve,C:\MyDir

ImportToClipboard

To make a DDE request to import a file into the Windows Clipboard, specify

Server: HiJaak
Topic: Request
Item(parameter): ImportToClipboard(title)

The parameter is defined as follows:
⊠ The "title" is the text that appears in the title bar of the dialog box that appears when this transacation is called.

For example, a DDE link in which you wanted to import a file into the clipboard from a dialog box titled "My Title" would be as follows:

ImportToClipboard(My Title)

When you execute this DDE link, an Open dialog box appears with the title that you select; in the above example the dialog box would be titled "My Title." From this dialog box, you can select any image supported by HiJaak PRO to be copied to the Windows Clipboard and click in OK. You can then paste that image into any application that supports Windows Cut, Copy and Paste commands.

Minimize

To make a DDE request to minimize HiJaak PRO, specify

Server: HiJaak
Topic: Request
Item(parameter): Minimize()

There are no parameters in this DDE link. When you execute this DDE link, HiJaak PRO becomes minimized.

Open

To make a DDE request to run HiJaak PRO, specify

Server: HiJaak
Topic: Request
Item(parameter): Open(FileName)

The parameter is defined as follows:
☒ The "FileName" is the full path and name of the file you want to open.

For example, a DDE link in which you wanted to open a GOLDN256.IFF, located in the HJPRO directory on the hard drive would be as follows:

Open(C:\INSET\SAMPLES\GOLDN256.IFF)

When you execute this DDE link, HiJaak PRO views the specified file.

Print

To make a DDE request to print a file from HiJaak PRO, specify

Server: HiJaak
Topic: Request
Item(parameter): Print(SrcFile)

The parameter is defined as follows:
☒ The "SrcFile" is the full path and filename of the file to print.

For example, a DDE link in which you wanted to print the file ROSE.PCX, located on your hard drive would be as follows:

Print(c:\rose.pcx)

When you execute this DDE link, HiJaak PRO prints the specified file to the selected Windows printer, using HiJaak PRO's default print options.

SetDestOptions

To have HiJaak bring up the user interface to set options for the specified conversion from source format to destination format, specify

Server: HiJaak
Topic: Request
Item(parameter): SetDestOptions(SrcExt,DstExt)

☒ The "SrcExt" is the three letter extension of the format you will be converting.
☒ The "DstExt" is the three letter extension of the format you will be converting to.

For example, a DDE link in which you wanted to set destination conversion options for a conversion from BMP to PCX would be as follows:

SetDestOptions(BMP,PCX)

When you execute this DDE link, the HiJaak PRO PCX Processing Options dialog box appears, allowing you to select destination processing options for your conversion.

SetSourceOptions

To have HiJaak bring up the Source Options dialog box to set options for the specified format, specify

Server: HiJaak
Topic: Request
Item(parameter): SetDestOptions(SrcExt)

The parameter is defined as follows:
⊠ The "SrcExt" is the three letter extension of the format you will be opening and setting options for.

For example, a DDE link in which you wanted to set source options for an IGF file would be as follows:

SetSourceOptions(IGF)

When you execute this DDE link, the HiJaak PRO IGF Source Options dialog box appears, allowing you to select options before you open or convert the file.

SetTag

To set a specific tag for the current DDE conversation, specify

Server: HiJaak
Topic: Request
Item(parameter): SetTag(TagName,Value)

Each of the parameters are defined as follows:
⊠ The "TagName" is the name of the options tag in HiJaak.
⊠ The "Value" is one possible value that is assigned to the tag.

For example, a DDE link in which you wanted to make all BMP files 5 inches wide would be as follows:
SetTag(BMPW,5)

For a complete list of tags, contact Inset Systems.

SourceFormatsList

To make a DDE request to return all the source formats supported by HiJaak PRO, specify

Server: HiJaak
Topic: Request
Item(parameter): SourceFormatsList()

There are no parameters in this DDE link. When you execute this DDE link, a list of all HiJaak PRO-supported source formats, separated by commas, will be returned in a message box.

Examples

Excel

Using the default set file, this macro converts ROSE.PCX to ROSE.BMP and prints ROSE.BMP before closing HiJaak PRO.

```
=EXEC("c:\inset\hjpro.exe")                        ;starts HiJaak PRO
Channel= INITIATE("HiJaak","Request")              ;initiates DDE conversation
=EXECUTE(Channel,"Convert (c:\rose.pcx,c:\rose.bmp");converts Rose.PCX to
                                                                Rose.BMP
=EXECUTE(Channel,"PRINT(c:\images\rose.bmp)")      ;prints converted file
=EXECUTE(Channel,"CLOSE()")                        ;closes HiJaak PRO
```

Winbatch

This batch file converts the file BOB.PCX to BOB.BMP at a width of 5 inches, displays the converted file in HiJaak PRO for 10 seconds and closes HiJaak PRO.

```
tagname="bmpw"                                  ;defines parameters
tagvalue="5.0"                                  ;defines parameters
source="c:\images\bob.pcx"                      ;defines parameters
dest="c:\temp\bob.bmp"                          ;defines parameters

DirChange("c:\hjpro")                           ;changes to HJPRO directory
RUN ("hjpro.exe","")                            ;starts HiJaak PRO
channel = DDEInitiate("Hijaak","Request")       ;initiates DDE conversation
if channel == 0 then goto failed                ;returns error code
DDETimeout(60000)
DDEREQUEST(channel,"Minimize()")                ;minimizes HiJaak PRO
DDERequest(channel,"SetTag (",Tagname,",",Tagvalue,")")     ;sets BMP width to 5
inches
DDERequest(channel,"Convert (",source,",",dest,")")   ;converts BOB.PCX to
BOB.BMP

WinShow("HiJaak PRO")                           ;maximizes HiJaak PRO
DDERequest(channel,"open (",dest,")")           ;opens converted file
Delay(10)                                       ;waits ten seconds
DDERequest(channel,"Close()")                   ;closes HiJaak PRO
goto END


:FAILED
Message("DDE operation failed!")
goto END

 :END
```