

Using the Mini Driver for the GDAPI
CreoScitex Internal Documentation

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1. INTRODUCTION

This document contains user documentation for the Mini Driver testing application. The sole purpose of this application is to test the Print Console implementation of the Generic Device Application Programming Interface (GDAPI). It acts as a RIP (raster source) that sends files through the interface to Print Console and the Imaging Device.

Note: Please refer to [1] for complete details of the GDAPI specification.

1.1 What's in a Name

The name "Mini Driver" is no accident. This is a small (Mini) application that drives (Driver) the Generic Device API (**GDAPI**), and when you put the two together it sounds like the name of the actress Minnie Driver–we could not resist this name! In fact, if you display the "About Box," you'll see that we give some credit to Minnie Driver.

1.2 Audience and References

This document was written with two audiences in mind: CreoScitex support personnel and software developers. At times, the needs of these two audiences differ. As a result, software developers are directed to the following references when more information is required:

[1]
Generic Device Application Programming Interface
Version 2.0

[2]
Print Console DSI of the GDAPI 2.0

1.3 Purpose and Scope

The purpose of the Mini Driver application is to exercise all of the functions of the GDAPI [1]. This will allow testing of the GDAPI without the need for a raster source or another input mechanism. The Mini Driver application may also be used as a template by software developers to illustrate how a raster source will interface with Imaging Devices using the GDAPI.

Note: The Mini Driver testing application does not use the complete capabilities of the GDAPI. If this testing tool suggests a restriction or problem with the GDAPI, please check reference [1] to ensure that the restriction is not simply a limitation of the Mini Driver.

2. INSTALLING AND RUNNING MINI DRIVER

When you install Print Console, the minidriver.exe is automatically installed to the system's CreoSupt\Bin directory. To run it, simply double-click this file. You can also install the Mini Driver to the system's Start Menu by installing the GDAPI Software Developer's Kit (SDK). The following describes how to install and run the Mini Driver from the Start Menu:

1. Install Print Console.

2. Press Ctrl-Alt-S, enter your password, and install the GDAPI SDK.
   This installation will put a GDAPI entry in your Start menu.
3. Start Print Console.
4. Start the Mini Driver by clicking Start > Programs > GDAPI SDK > Mini Driver.
   Once Mini Driver starts, a GDAPI connection to Print Console is created.

Note: The GDAPI DLL must be in the same directory as the MiniDriver.exe. Mini Driver, or any other raster source, uses the PrintConsoleGDAPI.DLL to connect to Print Console using the GDAPI.

3. QUEUING PRINT SESSIONS

The following section takes you quickly through the steps required to create and send a basic Print Session to Print Console via GDAPI.

Note: A "Print Session" is the term used to describe the sending of images to the device control software via the Mini Driver. See

1. Start Print Console.
2. Start the Mini Driver (must be done in this order).
3. Click the Queue Session button. The Queue Session dialog appears (see section 4.1.1 on page 3 for details).
4. Choose the various options (job name, media size name, and so on) for the Print Session (see section 4 page 3 for details).
5. Select a separation from the Device Color drop-down box, and click the Add button to put the separation into the Print Session.
6. To change device attribute values for this Print Session, click the name of the attribute in the Attribute's Summary box, and click the Modify button (see section 7 on page 7 for details).
7. Click Ok. The Print Session should appear in the Print Console Queue as an approved job ready for processing.
8. You can manipulate the job with the Session options on the Main Dialog while it is in the Print Console Active Queue (see section 4 on page 5 for details).

4. PRINT SESSION

4.1.1 Queue Session Dialog Elements

The following section describes the elements on the Queue Session dialog, which is used to create Print Sessions to send to Print Console. To open the Queue Session dialog, click the Queue Session button on the Main dialog.

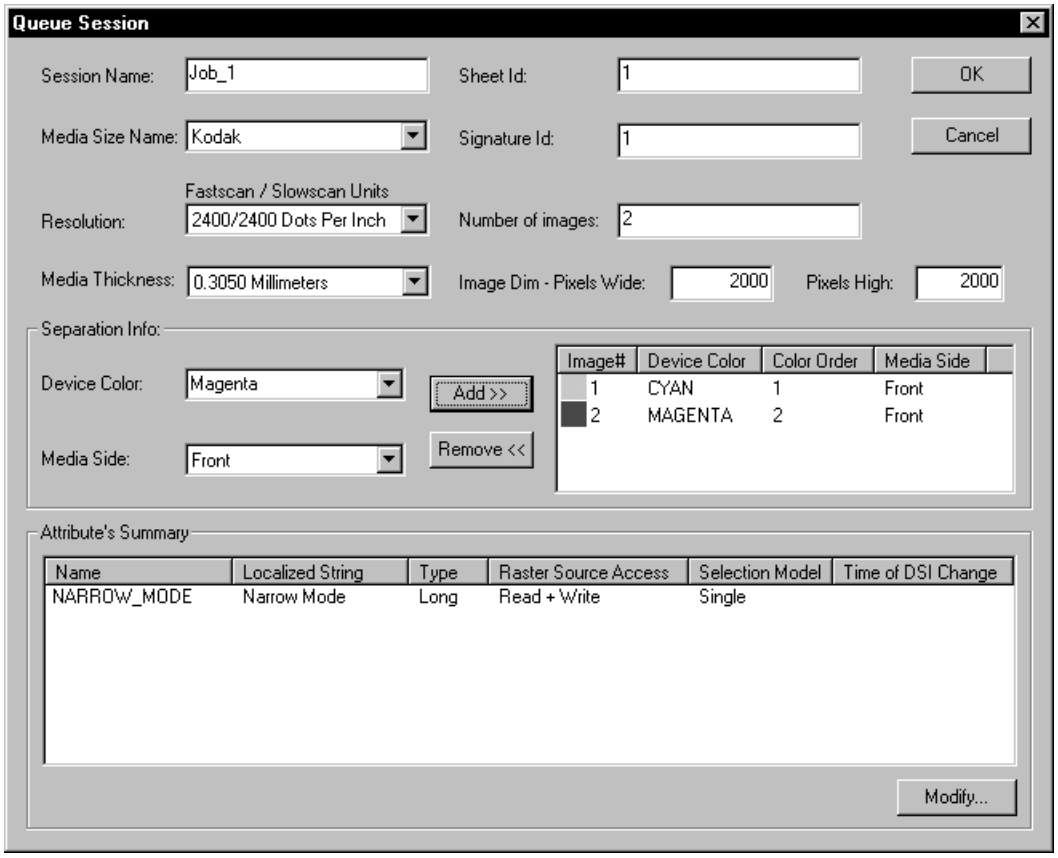


Figure 4—The Queue Print Session Dialog

- **Session Name**
  This is the name that is displayed in Print Console. You can provide any name you like for the Print Session.

- **Media Size Name**
  This is the name of a Media Size, which is configured in Print Console. Media Size values are taken from the MEDIA_SIZE attribute.

- **Resolution**
  These are the imaging resolutions supported by the device. Resolution values are taken from the RESOLUTION attribute.

- **Media Thickness**
  These are the media thickness values for a given Media Size. Media Thickness values are taken from the MEDIA_SIZE attribute. This selection is not currently supported.

- **Sheet Id & Signature Id**
  These are "informational items" that are associated with the Print Session. Currently they are not displayed in Print Console.

- **Number of Images**
  This field is automatically updated as separations are added or removed from a Print Session.

- **Image Dimensions**
  The Image Dimensions allow you to specify, in pixels, the width and height of the image. Use this plus the selected "Resolution" to calculate the image size.

- **Separation Info**
  This section allows you to add separations or remove separations. You can define the following for each separation:

  - **Device Color**
    Depending on the Media Size selected, and the Device Media which it is associated with, the Mini Driver either provides a list of the standard process colors (Cyan, Magenta, Yellow, and Black) or it provides a list of colors retrieved from the COLOR_NAME attribute. The COLOR_NAME attribute provides, for proofing media, a list of Device Color names and the order in which those colors must be applied to correctly produce a proof.

  - **Add >>, Remove <<**
    These buttons let you add or remove separations. Note that in the case of proofing material that the colors are kept in the order suggested by the COLOR_NAME attribute–no matter what order they have been added to the Print Session.

  - **Media Side**
    Determines the side of the media to image. Only relevant for blueline proofing.

Attribute Summary
This section allows you to specify attribute values that are specific to this Print Session. Note that the only attributes displayed here are attributes supported by the current device which have Read + Write access. If you want to set a value for an attribute displayed here, select the attribute name and click the Modify button; a dialog that is appropriate to the attribute will be displayed.

5. PRINT SESSION STATUS

Print Sessions, and the separations they contain, display a status in the Main Dialog that reflects their current state. This status can be one of:

- **Queued**
  Means that the Print Session is queued in Print Console.

- **Processing**
  The Print Session is currently being processed.

- **Completed**
  Processing of the Print Session has been completed in Print Console.

- **Canceled**
  The Print Session has been canceled from either the Mini Driver or Print Console.

5.1.1 Managing Print Sessions

Once you have queued a Print Session, you can manage Print Sessions from the Main Dialog. The options available for a queued Print Session are:

- **Cancel Image**
  Select an image within a queued Print Session, which has not yet been processed, and press the "Cancel Image" button. When this image is being processed, the Mini Driver will cancel the image rather than send raster for the image. While the GDAPI supports the concept of canceling an image, Print Console does not and will cancel the entire Print Session.

- **Cancel Session**
  Select a Print Session that is queued or in progress, and press the "Cancel Session" button.

- **Purge Canceled Sessions**
  This will purge any *canceled* sessions from the list of sessions.

- **Purge Completed Sessions**
  This will purge any *completed* sessions from the list of sessions.

6. MAIN DIALOG

Use Mini Driver to connect to Print Console in order to:

- View Print Console settings via the attributes displayed by the Mini Driver.
- View Imaging Device settings via the attributes displayed by the Mini Driver
- Queue Print Sessions.
- Manage queued Print Sessions.
- Predict future events—this feature has been disabled for now as testers kept retiring after sudden and dramatic windfalls on the stock market.

In short, you can test most of the GDAPI functions by using the Mini Driver.

6.1 Main Dialog Components

The Main Dialog is divided into three sections: Device section, Session section, and Status Messages section. The Device section describes the Imaging Device the GDAPI is connected to. The Session section contains the options necessary to create and send Print Sessions. The Status Messages section shows the status of each GDAPI function call made by the Mini Driver. The following section describes these in more detail.

Three sections: Device, Session, Status Messages.

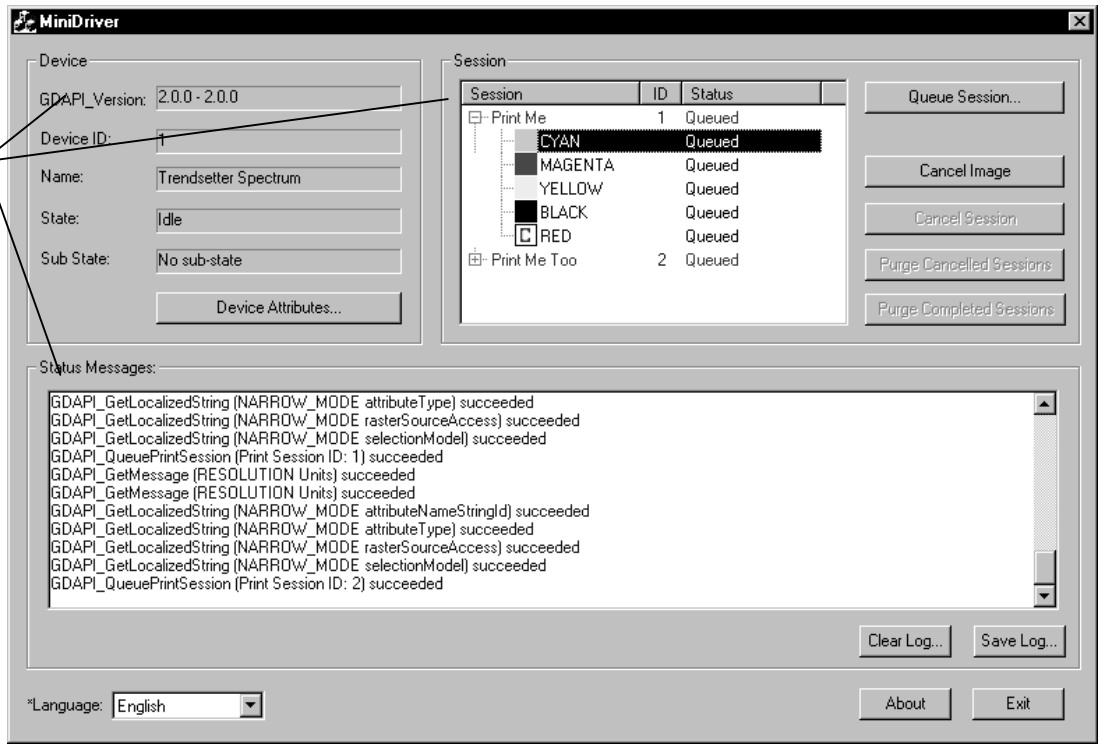


Figure 1—The Mini Driver Main Dialog

- **Device Options**
  Provides an overview of the Imaging Device: Print Console controls the device. The Mini Driver automatically attaches to the device when it starts. The Device Attributes button displays the Device Attributes dialog. This section also shows the current state of the device. For more information on Device Attributes, see section 7, Attributes.

- **Session Options**
  This section provides a summary of any Print Sessions that have been queued from this instance of the Mini Driver. It also allows you to queue Print Sessions via the Queue Session button and manage Print Sessions via the other buttons in this section. Notice that Print Sessions can be expanded or collapsed to hide or display the images included in a Print Session.

- **Status Messages**
  This section shows the status of each GDAPI function call made by the Mini Driver. The status messages can be saved to a file and can be cleared.

  - Successful calls are displayed in blue.
  - Unsuccessful calls are displayed in red.

  If you encounter a problem when testing with the Mini Driver, the status messages displayed on the main dialog may be of use. A status message is displayed for every GDAPI function call made by the Mini Driver. Note that successful messages are displayed in blue while unsuccessful messages are displayed in red. These messages can be saved to a file for inclusion in a problem report.

- **Language Drop-Down Box**
  Each message generated by the GDAPI is fully localized, but the selection of language/locale from the Mini Driver is not currently supported.

- **About Button**
  This displays the about box for the Mini Driver—try it!

- **Exit Button**
  We don't know what this button does, but we think you'll figure it out.

Note: Mini Driver will connect to the one device that Print Console is connected to. If Print Console provides access to more than one device, Mini Driver will connect to the first device and display a warning that more than one device is available.

7. ATTRIBUTES

The Mini Driver displays attributes (bits of information from the Imaging Device) and, in some cases, allows you to change their values. See [1] for a complete description of GDAPI attributes. The basic characteristics of a GDAPI attribute are:

- There is a core set of attributes for all Imaging Devices.
- Non-core attributes vary from one Imaging Device type to another.
- The addition of new attributes or a change to the data contained in an attribute does not require a change to the GDAPI specification.
- With respect to the Raster Source—Mini Driver in this case—attribute values can be:
  - Read-Only
  - Read + Write
  - Write-Only

Attribute values that can be changed by the Raster Source—Mini Driver in this case—have two possible scopes:

- Global Scope—i.e. the value is applied to all Print Sessions. See the Changing Attribute Values Globally section on page 9 for more information.
- Print Session Scope—the value applies only to a specific Print Session. See the Changing Attribute Values for a Print Session section on page 9 for more information

7.1 Device Attributes Dialog

The Device Attributes Dialog:

- Is displayed by pressing the Device Attributes button in the Main dialog box.
- Displays all of the attribute values supported by the device currently connected to Print Console.
- Reads attribute values at startup and when they have been changed in Print Console.

- Allows you to change attribute values for attributes that have a “Raster Source Access” value of Read + Write.

Reference [2] documents each of the attributes that can be displayed in the Device Attributes dialog. It also maps the values associated with each attribute to the corresponding Print Console values or Imaging Device values.

7.1.1 Viewing Attribute Values

To view the device attributes, press the Device Attributes button in the Main dialog. The following dialog is displayed.

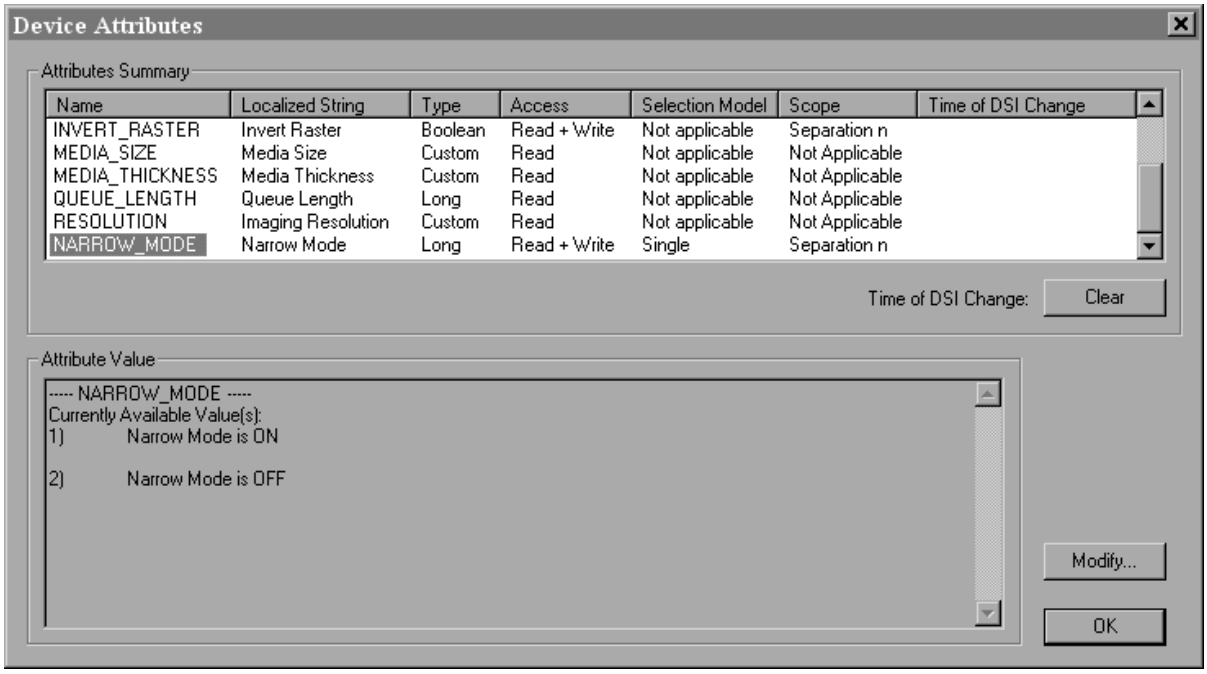


Figure 2—The Device Attributes Dialog

To view the value associated with an attribute, select an item in the “Name” column; this will:

- Display the corresponding value in the “Attribute Value” section.
- Enable the Modify button if the attribute has “Write” access. Modifying an attribute value is covered in the next section.

The following information is displayed for each attribute:

- **Name**
  The name used in the GDAPI to refer to this attribute
- **Localized String**
  The localized string for the attribute
- **Type**
  See [1] for a list of possible types for an attribute. The type will either be some simple type like long or double, or a structure, in which case the type will be shown as Custom.

- **Raster Source Access**
  This specifies how the Raster Source can access a given attribute: read-only, read + write, or write-only.
- **Selection Model**
  If the attribute represents a list of values, then the selection model determines how many items a Raster Source can select from the list: one at a time or multiple items.
- **Scope**
  This shows whether the attribute value is set for a particular Print Session, or globally for all Print Sessions (for as long as this particular Mini Driver session continues).
- **Time of DSI Change**
  If a user changes the value of an attribute in Print Console (the Device Specific Implementation – DSI), then this column will show the time of the change. Note that this column does not update while the dialog is open. The "Clear" button clears values from this column.

Note: These basic characteristics of an attribute can be used by a Raster Source to handle some attributes in a generic way.

7.1.2 Changing Attribute Values

If an attribute has Read + Write access, you can change its value in one of two ways depending on the scope of the change:

- If you want to change an attribute value for a particular Print Session only (**Print Session Scope**), change it from the Queue Session dialog.
- If you want to change an attribute value for all Print Sessions (**Global Scope**), change it from the Device Attributes dialog.

This section shows you how to change these values in the Mini Driver.

Note: You cannot change an attribute value if the attribute does not have Read + Write permissions.

Changing Attribute Values for a Print Session

When the Queue Session dialog is displayed, you can change the value of an attribute by selecting the attribute name in "Name" column of the Attribute's Summary section, and then pressing the Modify button. The Mini Driver displays a Modify Attribute dialog box where you can make the necessary changes. This setting applies to the particular Print Session you are creating.

Changing Attribute Values Globally

When the "Device Attributes" dialog is displayed, you can change the value of an attribute with "Read + Write" access by selecting the attribute name in the "Name" column and pressing Modify button. The Mini Driver displays a Modify Attribute dialog box where you can make the necessary changes. This setting applies to every Print Session until you close the Mini Driver.

For example, the dialog displayed for the Narrow Mode attribute (available on Creo Imaging Devices) is displayed in the following dialog:

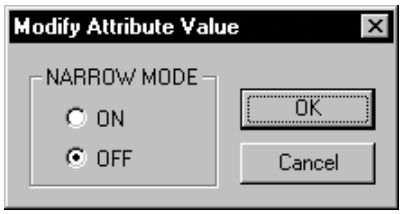


Figure 4 – Modify Attribute Value Dialog

8. GDAPI TROUBLESHOOTING

8.1 Print Console Debug Log

The debug log of Print Console contains some messages that relate to the GDAPI. The following sub-sections contain information on each of these messages.

8.1.1 Startup of the Print Console GDAPI Server

The Print Console GDAPI Server is started only when Print Console starts. Its role is to listen for GDAPI connection requests from a raster source.

The following messages are displayed when the server starts successfully:

```
GDAPI: GDAPI Server starting...
GDAPI: Starting socket listener thread...
GDAPI: Started socket listener thread.
GDAPI: GDAPI server started
```

Note: If the server does not start normally, the error message will be displayed after the first message.

8.1.2 Raster Source Connections

When a raster source, such as Prinergy, connects to Print Console using the GDAPI, the following messages will be displayed in the debug log for **each** raster source connection:

```
GDAPI: Connection request...
GDAPI: Connection request succeeded.
```

If the connection request fails, the error message will be displayed after the first message.

8.1.3 Sample Print Console Debug Log

The following section contains a sample debug log. Please note that the information contained between the horizontal lines in this log does not appear in the Print Console log. This information was added to describe individual message logs:

```
lpid:374 tid:268 15Aug00 12:35:07.504 printconsole.main.uiapp  GDAPI: GDAPI Server
starting...
lpid:374 tid:268 15Aug00 12:35:07.525 printconsole.main.listener  GDAPI: Starting socket
listener thread...
lpid:374 tid:268 15Aug00 12:35:07.525 printconsole.main.listener  GDAPI: Started socket
listener thread.
lpid:374 tid:268 15Aug00 12:35:07.525 printconsole.main.uiapp  GDAPI: GDAPI server started

<-------------------------------------------------------------------------------------->
       The GDAPI server is part of Print Console.  It listens for connections from RIPs--
       like Prinergy or Brisque. If the GDAPI server can not start, the log will contain
```

```
       an error message after the "Server starting..." message. Note also that if the
              GDAPI server can not start then Print Console will not start. RIP = Raster
              Source
<------------------------------------------------------------------------------------------>


lpid:374 tid:384 15Aug00 12:35:32.951 printconsole.main.uitodminterface  User sent SET
PRINT_SETUP request
lpid:374 tid:315 15Aug00 12:35:58.978 printconsole.main.gdapiserver  GDAPI: Connection
request...
lpid:374 tid:315 15Aug00 12:35:59.059 printconsole.main.gdapiserver  GDAPI: Connection
request succeeded.


<------------------------------------------------------------------------------------------>
       The Print Console GDAPI DLL uses sockets to communicate between the DLL loaded by
       the RIP and Print Console. The message "GDAPI: Connection request..." shows the
       connection of the socket.  If this connection fails, the error will be shown after
       this message. This message is shown for each connection requested.
<------------------------------------------------------------------------------------------>


lpid:374 tid:362 15Aug00 12:35:59.790 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1
       Function: GDAPI_SetVersion
       Status  : Success
       Version : 2.1.0

<------------------------------------------------------------------------------------------>
       The basic format of the GDAPI log messages which pertain to a given RIP connection
       are: GDAPI: Raster Source: Log Id <id> [<Raster Source Name>]
       Each Raster Source that connects must use a unique raster source name.
       -<id> A unique number given to each Raster Source connection
           - Set to 1 each time Print Console starts
           - Incremented each time a Raster Source connects.
       -<Raster Source Name> The RIP Connection Status name as displayed in the Print
       Console GUI. You can never have two Raster Sources connected at the same time with
       the same name. The <Raster Source Name> is not set until the raster source calls
       GDAPI_Connect.
<------------------------------------------------------------------------------------------>


lpid:374 tid:362 15Aug00 12:36:00.190 printconsole.main.gdapilogging

  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
       Function          : GDAPI_Connect
       Status            : Success
       Raster Source Name: MiniDriver_1
       Format            : word size 2, byte order 0, bit order 0
       Password          : ******


<------------------------------------------------------------------------------------------>
       This shows the process of connecting to the GDAPI
<------------------------------------------------------------------------------------------>


lpid:374 tid:362 15Aug00 12:36:00.951 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
       Function: GDAPI_DeviceConnect( deviceId = 1 )
       Status  : Success


<------------------------------------------------------------------------------------------>
       This shows the process of connecting to the device
<------------------------------------------------------------------------------------------>


lpid:374 tid:362 15Aug00 12:36:22.412 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
       Function          : GDAPI_QueuePrintSession
       Status            : Success
       Device Id         : 1
       Print Session Id  : 1
```

```
        Print Session Name: Job_1
        Media Size        : Kodak
        Media Thickness   : <no value>
        Signature Id      : 1
        Sheet Id          : 1
        Resolution        : Fast Scan 2400.00 x Slow Scan 2400.00 Dots per Inch
        Image Dimensions  : Fast Scan 2000 x Slow Scan 2000 Pixels
        Image Offset      : <no value>
        Image Clipping    : <no value>
        Image Bit Depth   : 1
        Interleaving      : Separation
        Number of Images  : 1
               Image 1, Side: Front
                      Raster Color: CYAN, Device Color: CYAN
lpid:374 tid:362 15Aug00 12:36:22.673 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
        Function        : GDAPI_ReadyForRelease
        Status          : Success
        Device Id       : 1
        Print Session Id: 1
lpid:374 tid:268 15Aug00 12:36:22.733 printconsole.main.mainfrm  StartActiveJob: 1
lpid:374 tid:361 15Aug00 12:36:23.534 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
        Function        : PrintSessionCallback
        Status          : Success
        Print Session Id: 1
        Command         : Release Print Session
        Message         : <none>
lpid:374 tid:362 15Aug00 12:36:23.494 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
        Function        : GDAPI_StartPrintSession
        Status          : Success
        Device Id       : 1
        Print Session Id: 1
lpid:374 tid:284 15Aug00 12:36:23.824 printconsole.main.writthrd  About to transmit string:
I1 B1
lpid:374 tid:373 15Aug00 12:36:23.984 printconsole.main.readthrd  Received recorder string:
I1 M1 T0
lpid:374 tid:373 15Aug00 12:36:24.265 printconsole.main.readthrd  Received recorder string:
I1 M25 T0

lpid:374 tid:373 15Aug00 12:36:24.505 printconsole.main.readthrd  Received recorder string:
I1 M26 T0
lpid:374 tid:362 15Aug00 12:36:25.977 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
        Function        : GDAPI_StartImageTransfer
        Status          : Success
        Device Id       : 1
        Print Session Id: 1
lpid:374 tid:284 15Aug00 12:36:26.027 printconsole.main.writthrd  About to transmit string:
P1  M2400 7:2000 19:0 21:2 10:2000
lpid:374 tid:373 15Aug00 12:36:26.248 printconsole.main.readthrd  Received recorder string:
P1 M99
lpid:374 tid:373 15Aug00 12:36:26.278 printconsole.main.readthrd  Received recorder string:
I1 M22 T0
lpid:374 tid:373 15Aug00 12:36:31.716 printconsole.main.readthrd  Received recorder string:
I1 M27 T0
lpid:374 tid:373 15Aug00 12:36:31.776 printconsole.main.readthrd  Received recorder string:
I1 M30 T0
lpid:374 tid:319 15Aug00 12:36:32.096 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
        Function        : PrintSessionCallback
        Status          : Success
        Print Session Id: 1
        Command         : Send Raster
        Message         : <none>
lpid:374 tid:373 15Aug00 12:36:33.298 printconsole.main.readthrd  Received recorder string: U
3 16056 14 0 Image: Plate imaging has begun
lpid:374 tid:373 15Aug00 12:36:33.418 printconsole.main.readthrd  Received recorder string:
W3
lpid:374 tid:362 15Aug00 12:36:34.710 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
        Function        : GDAPI_EndImageTransfer
        Status          : Success
```

```
       Device Id       : 1
       Print Session Id: 1
lpid:374 tid:362 15Aug00 12:36:35.191 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
       Function        : GDAPI_EndPrintSession
       Status          : Success
       Device Id       : 1
       Print Session Id: 1
lpid:374 tid:373 15Aug00 12:36:36.422 printconsole.main.readthrd  Received recorder string:
I1 M35 T0
lpid:374 tid:373 15Aug00 12:36:36.432 printconsole.main.readthrd  Received recorder string: U
4 16027 14 0 Image: TPG not idle after imaging, DPE reset
lpid:374 tid:373 15Aug00 12:36:36.793 printconsole.main.readthrd  Received recorder string: U
3 15893 14 0 Autoloader:  Please lift the table to the upright position to continue.
lpid:374 tid:373 15Aug00 12:36:37.093 printconsole.main.readthrd  Received recorder string:
I1 M40 T300
lpid:374 tid:373 15Aug00 12:36:53.988 printconsole.main.readthrd  Received recorder string: U
3 15894 14 0 Autoloader:  Please lower the table all the way down to continue.
lpid:374 tid:373 15Aug00 12:36:55.189 printconsole.main.readthrd  Received recorder string:
I1 M45 T0
lpid:374 tid:373 15Aug00 12:36:55.500 printconsole.main.readthrd  Received recorder string: U
3 15894 14 0 Autoloader:  Please lower the table all the way down to continue.
lpid:374 tid:373 15Aug00 12:36:55.790 printconsole.main.readthrd  Received recorder string:
I1 M46 T300
lpid:374 tid:373 15Aug00 12:36:59.095 printconsole.main.readthrd  Received recorder string:
I1 M47 T0
lpid:374 tid:373 15Aug00 12:37:07.237 printconsole.main.readthrd  Received recorder string:
I1 M55 T0
lpid:374 tid:373 15Aug00 12:37:07.287 printconsole.main.readthrd  Received recorder string:
I1 M99
lpid:374 tid:268 15Aug00 12:37:07.577 printconsole.main.mainfrm  EndActiveJob: 1
lpid:374 tid:361 15Aug00 12:37:07.817 printconsole.main.devcntlr  **ERROR** ThreadDying():
RefCntLookup() failed for job: 1.
lpid:374 tid:373 15Aug00 12:37:33.464 printconsole.main.readthrd  Received recorder string:
W0
lpid:374 tid:362 15Aug00 12:38:00.233 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
       Function: GDAPI_DeviceDisconnect( deviceId = 1 )
       Status  : Success


<-------------------------------------------------------------------------------------------->
       The disconnect is performed when the Raster Source:
       1. Shuts down, (i.e. Prinergy stops running) or...
       2. does not want to talk to Print console any more.
       Note that the disconnect mirrors the connection...
       1. disconnect from the device.
       2. disconnect from the GDAPI.
<-------------------------------------------------------------------------------------------->


lpid:374 tid:362 15Aug00 12:38:00.413 printconsole.main.gdapilogging
  GDAPI: Raster Source: Log Id 1, Name MiniDriver_1
       Function: GDAPI_Disconnect
       Status  : Success
lpid:374 tid:373 15Aug00 12:38:49.313 printconsole.main.readthrd  Purging com port read
operation
lpid:374 tid:284 15Aug00 12:38:49.313 printconsole.main.writthrd  Write thread terminating.
lpid:374 tid:339 15Aug00 12:38:49.313 printconsole.main.wtchthrd  Watchdog thread
terminating.
lpid:374 tid:373 15Aug00 12:38:51.366 printconsole.main.readthrd  Read thread terminating.
lpid:374 tid:268 15Aug00 12:38:51.467 printconsole.main.uiapp  QueryDeviceMgr stopped
lpid:374 tid:347 15Aug00 12:38:51.477 printconsole.main.legacypipehandler  Pipe creator
thread told to stop. Bye-bye now.
lpid:374 tid:347 15Aug00 12:38:51.477 printconsole.main.legacypipehandler  Failed to connect
pipe.
lpid:374 tid:268 15Aug00 12:38:51.527 printconsole.main.uiapp  LegacyPipeHandler stopped
lpid:374 tid:268 15Aug00 12:38:51.637 printconsole.main.uiapp  Ending Print Console Session
```

8.2 Raster Source Diagnostics

A raster source is something that connects to Print Console using the GDAPI. Current supported raster sources are:

- Mini Driver
- Brisque Workflow
- Prinergy Workflow

The error messages discussed here display in the Mini Driver and may be display in the log files of other raster sources.

Sub-headings in this section reflect the error messages **displayed in the Mini Driver or in the log of a Raster Source**. The contents of each sub-section describe causes and possible solutions for each problem.

8.2.1 The version specified is not supported

Cause The version of the GDAPI DLL used by the Mini Driver and the GDAPI version expected by the Raster Source do not match.

Solution Install the correct version of the Raster Source or the correct version of Print Console as appropriate. Note that the Mini Driver displays the range of versions supported by the current GDAPI DLL in the top left hand corner of the application.

8.2.2 Can't communicate with Print Console

Cause Print Console is not running.

Solution Start Print Console.

Cause The socket port used to establish the connection between the GDAPI DLL used by Mini Driver (and all Raster Sources) is being monopolized by another application. This is preventing the DLL from connecting to Print Console.

Solution Change the **Socket_ConnectRequestPort** setting in the registry – for details of how to change this setting, see the "GDAPI Configuration" section in [2].

Cause The version of the GDAPI DLL used by the Mini Driver and the GDAPI version expected by the Raster Source do not match.

Solution Install a version of the Raster Source or Print Console as appropriate. Note that the Mini Driver displays the range of versions supported by the current GDAPI DLL in the top left hand corner of the application.

8.2.3 Already connected to GDAPI

Cause The Raster Source has called GDAPI_Connect() with a Raster Source name already used by another Raster Source connection.

Solution The Raster Source must use a unique Raster Source name. Note that the list of names used by Raster Sources is listed in Print Console.

Cause The Raster Source has called GDAPI_Connect() more than once.

Solution The Raster Source only needs to call GDAPI_Connect() once. Contact the authors of the raster source as they must correct this problem.

8.2.4 Already connected to device

Cause The Raster Source has called GDAPI_DeviceConnect for a device to which it is already connected.

Solution This is not a fatal error – the raster source simply needs to correct the call to GDAPI_DeviceConnect. Contact the authors of the raster source as they must correct this problem.

8.2.5 Timed out waiting for a response from Print Console

Cause The GDAPI DLL uses a socket port to send messages to Print Console. The DLL waits for a response to all messages sent to Print Console and then "times out" if the response is not received in the amount of time configured.

Solution Change the **Socket_WaitForServerResponse** setting in the registry – for details of how to change this setting, see the "GDAPI Configuration" section in [2].

8.2.6 Invalid Password

Cause If this is a third party Raster Source / RIP using the GDAPI to connect to Print Console, then they have not purchased and installed a valid "Direct Connection" license key in Print Console.

Solution Purchase and install a valid "Direct Connection" license key in Print Console.

Cause If this is a CreoScitex Raster Source / RIP using the GDAPI to connect to Print Console, then they have not correctly implemented the password generation algorithm.

Solution Consult with the Print Console developers of the GDAPI.