

IBM InfoPrint Manager 3.1 for AIX



## **Procedures: Miscellaneous Tasks Defined on the Web (4/05/99)**

**Procedures: Miscellaneous Tasks Defined on the Web (4/05/99)**

**Contents**

Using Cut Sheet Emulation .....	1
Using Enhanced Grab and Move to Shift Pages on Submit .....	2
Submitting a Job to a DocuTech 135 Printer .....	3
Sending and Receiving Fax Jobs .....	4
Submitting Email Jobs .....	9
Using Infoprint Manager Command with AFP Upload .....	15

## Using Cut Sheet Emulation

Job submitters must specify a form definition that will print using cut sheet emulation through the following application programming interfaces:

- [Infoprint Submit](#)
- [PSF Physical Printer Properties notebook](#)
- [pdpr command](#)

Before using any of these interfaces, ensure that you are aware of this support's [Defaults and Limitations](#).

### Using Infoprint Submit

From the **Layout** tab of the Infoprint Submit Job Ticket window, you can leave the **Use form definition** field blank to get the default form definition on the Infoprint AIX server, or specify a specific form definition.

By using the default form definition, cut sheet emulation will be invoked.

### Using the PSF Physical Printer Properties Notebook

The following describes how to specify the form definition of your choice on the Infoprint Control GUI on AIX.

1. From the **Infoprint Administration** *servername* window, use the middle mouse button to drag the printer notebook action icon onto the Actual Destination (printer) that you want to use for cut-sheet emulation.
2. From the **View and Change PSF Physical Printer Properties** window, select the **Customization** tab.
3. Specify the form definition of choice in the **form definition** field.
4. Push either the **OK** or the **Apply** push-button to ensure that this form definition is applied.

## Using the pdpr Command

The **form-definition** document, default document, or actual destination attributes on the **pdpr** command also change the form definition on a printer.

For specific examples of how to modify these values on the printer, refer to the *IBM Infoprint Manager for AIX Reference*, (S544-5475).

## Defaults and Limitations

When a form definition is explicitly named, any attribute found in both the form definition and either the Infoprint Manager graphical user interface or the **pdpr** command reverts to the value specified in the form definition.

Note that corresponding values specified on the **printer-pass-through** (or **destination-pass-through**) attribute override the values specified in either the **PSF Resource** tab of the PSF printer notebook or the **form-definition** document, default document, or actual destination attribute.

If you use a form definition that contains a medium map using N\_UP commands, the printer will go out of cut sheet emulation mode while processing that N\_UP command. If the N\_UP processing ends, the printer will return to cut sheet emulation mode. This scenario can occur when printing a large image in the middle of a job.

## Using Enhanced Grab and Move to Shift Page Images on Submit

To shift page images through Infoprint Submit, open a job ticket window and do the following:

1. Select the **Align** tab of the Infoprint Submit Job Ticket window.
2. Click on the **Show Placement** push button.
3. From the **Adjust Page Placement** window, you can shift or adjust the page placement in any direction.

**Note:** This enhanced support for shifting page images is only supported for PSF-attached Infoprint printers (those printers using the PSF destination support system). You cannot submit a PostScript job to an InfoColor 70 printer and move page images in either a top or left direction.

## Submitting a Job to a DocuTech Model 135 Printer

To send jobs to your networked DocuTech system, you must first create a BSD destination on your AIX server. Once this is done, you can submit the job through Infoprint Manager and release it for printing using your local DocuTech procedures.

### Create a BSD Destination for the DocuTech 135 Printer

Using the Infoprint basic administrator's GUI, do the following:

1. Drag the BSD template from the Types column in the template area, and drop it on the Actual Destinations pane. You will be prompted to select the server that will contain the actual destination.
2. Fill in the required information fields. physical printer name is a name you determine, and the command will be as follows: **`/usr/lpd/rembak -S docu1 -P docutech135`** where -S is the name of the remote print server where the job will be sent, and where -P is the name of the queue on the remote print server where the job will be sent.
3. Select the OK button. Infoprint creates a new actual destination using the information you supplied. It also creates a new logical destination and new default job. The new default job is associated with the new logical destination and requests the actual destination.
4. Enable the actual destination and logical printer.

### Submit a Job to the Docutech 135 Printer

Use a familiar print submission mechanism such as Infoprint Select or the **pdpr** command to submit the job to the logical destination you just created.

For example, **pdpr -pyuma-lp /bin/test.ps** could be used to route a test job to a logical printer named yuma-lp.

**Note:** The job will appear briefly in the jobs window and will be spooled to the Docutech server.

## Release the Job from the Docutech 135 Server Interface and Printer Console

1. Access the list of queued jobs, and the file you submitted should display in the refreshed list. From the server window, release the job for printing. Job status for each released job will display as the file is released.
2. Now on the DocuTech console, open the printer queue by clicking on its icon, and open the Job File list. The new job appears in the Job File list.
3. Click on the job and move or copy the file to the printer queue. Your Infoprint manager job will then print on the DocuTech printer.

## Sending and Receiving Fax Jobs

Use these procedures after you have installed the Fax option and completed the configuration tasks.

## Submitting Fax Jobs

Once you have installed the Fax option and defined destinations through either the Basic Server or the Advanced Server configuration, you can submit jobs to a particular output destination by using either [the command-line](#) on the Infoprint AIX server, or the [Infoprint Select](#) component.

**Note:** You cannot submit ASCII data through the Infoprint Manager fax option.

## Using the AIX Command Line

Faxes are sent through the **pdpr** command using the following syntax:

```
pdpr -p logical_destination -X fax_options -x fax_number=xxxxx....  
faxfilename
```

For an explanation of each variable in the command-line, consult the following table:

<b>Variable</b>	<b>Definition</b>
<i>logical_destination</i> Example: <code>-p fax-out-ld</code>	Specifies the logical destination that you defined when configuring the Fax option through either the Basic or the Advanced Server graphical user interface.
<i>fax_options</i> Example: <code>-X /fax_scripts/samp.attr.s</code>	Specifies the job attributes that you can specify for fax output. These attributes include cover sheet information, billing code information, and other options.  To simplify the printing process, IBM recommends that you create a sample attribute script. In this example, there is a <code>samp.attr.sc1</code> scripts file that resides in the <code>/fax_scripts</code> directory.
<i>fax_number=xxxxx....</i> Example: <code>-x fax_number=3131234567</code>	For specific information about the <code>pdpr</code> command and its attributes, refer to the IBM Infoprint Manager for AIX Reference Guide Version 3 Release 1, which is provided on the documentation CD-ROM.  Specifies the fax number to which the fax is being sent.  Note that for internal site faxes, you may not need to enter a 10-digit number.
<i>faxfilename</i> Example: <code>...faxcover memo1</code>	Specifies the name of the file that you are faxing.  Note that this can include more than a single file (for example, a cover sheet and a body file) specified in the sequence they should be received.

The sample attribute file should look similar to the following:

```
# Sample Attribute File for Infoprint Manager Fax Option
# = comment
#
fax-to-name="Mr. John Doe"
account-text="Accounting Code 1234"
subject-text' "Status Report for Quarter"
job-comment="Status Report"
callback-number=(123)555-5555
originating-company-text="My Digital Document Company"
destination-company-text="Your Destination Company"
document-type=printable
```

## Using the Infoprint Select Client

Once you have successfully installed Infoprint Select and defined a Fax destination on the application, you can use the following procedure to print:

1. Specify **Print** from the screen menu.
2. From the **Print** window, ensure that the **Name** field contains the name of the logical destination that you defined to the Infoprint AIX server, then click on the **OK** button.
3. From the **Infoprint Fax** pop-up window, specify the attribute information in the fields as indicated.

**Note:** You must specify a number for the **Fax number** field, or Infoprint Select cannot submit the job to the server.

## Specifying Fax Cover Sheets

You can specify two different types of cover sheets with the Infoprint Fax Manager output device:

- Text cover page
- PCL cover page



For examples, see the directory `/var/psf/faxserver/covers`. When making a PCL header sheet, make sure that your PCL driver outputs non-image PCL data, so that the PCL data has characters and font references. If your PCL driver creates image data, the PCL cover page that you have created will not work with the defined variable names.

You can customize your fax header sheets by using the following set of Lightning Fax parameters:

<b>Configuration Value</b>	<b>Mapping</b>
@LFVAR_FAX_NUMBER@	Telephone number of the fax machine called.
@LFVAR_APPLICATION_NAME@	Job ID from Infoprint Manager. Identity of the person sending the fax.
@LFVAR_CALL_BACK_NUMBER@	Number to call in case the fax did not come out of the receiving fax machine.
@LFVAR_BILLING_CODE@	Department code to bill for the fax.
@LFVAR_DESTINATION_NAME@	Person to whom you have addressed the fax
@LFVAR_COMPANY@	Company for which the person to whom you are sending the fax works
@LFVAR_SUBJECT@	Subject of the fax
@LFVAR_USER_DEFINED1@	User-defined text.
@LFVAR_USER_DEFINED2@	User-defined text.
@LFVAR_USER_DEFINED3@	User-defined text.
@LFVAR_USER_DEFINED4@	User-defined text.
@LFVAR_COMMENTARY@	Fax document commentary

# Sample Text Cover Sheet

A typical text header sheet:

-----  
-----  
-----

((Infoprint Fax Manager))

-----

From: @LFVAR\_CSID@

Callback Number: @LFVAR\_CALL\_BACK\_NUMBER@

-----

TO: @LFVAR\_DESTINATION\_NAME@

Company Name: @LFVAR\_COMPANY@

TO: @LFVAR\_SUBJECT@

-----  
Commentary: @LFVAR\_COMMENTARY@  
-----

-----  
Address: @LFVAR\_USER\_DEFINED1@

Address: @LFVAR\_USER\_DEFINED2@

Address: @LFVAR\_USER\_DEFINED3@

Address: @LFVAR\_USER\_DEFINED4@  
-----  
-----

--Job Number: @LFVAR\_APPLICATION\_NAME@ <--

--Billing Code: @LFVAR\_BILLING\_CODE@ <--  
-----

# Submitting Email Jobs

Once you have [installed](#) and [configured](#) the Email option, you can submit jobs to a particular output destination by using the command-line anywhere that you have the **pdpr** command installed. The following topic shows the command syntax and provides three examples for submitting email jobs:

- [Submitting attributes through a file with the -Z option](#)
- [Submitting files with a Korn Shell Script](#)
- [Submitting text files with a Korn Shell Script](#)

For specific information about the **pdpr** command and its attributes, refer to the *IBM Infoprint Manager for AIX Reference Guide Version 3 Release 1*, which is provided on the documentation CD-ROM (**S5445475**).

For an explanation of each variable on the command-line, consult the following table:

Variable	Definition
<i>logical_destination</i> Example: <code>-p email-ld</code>	Example: Specifies the <a href="#">logical destination</a> that you defined when configuring the Email option through either the Basic or the Advanced Server graphical user interface.
<i>emailfilename</i> Example:	Specifies a file that contains the job attributes, the name of the file you are sending, and the email destination to which you are sending the e-mail.
<code>-Z /email_script/samp.script</code>	Email attributes include cover sheet information and billing code information, as well as other options.

IBM recommends that you create sample attribute scripts that you can customize for your particular site. While you can specify email attributes on the command line, IBM recommends using an attribute file.

## Example 1: Submitting Attributes through a File with the -Z Option

You can create a sample attribute file and submit it as the *emailfilename* for the syntax listed above:

```
-x email-from-address=root@serv.us.name.com
-x email-to-address=johndoe@us.name.com
-x subject-text="Test Script"
-x document-type=printable
/usr/lpp/ps/sample.pdf
-x document-type=email-body
/email_script/body.txt
-x document-type=email-signature
/email_script/sig.txt
```

At the command-line, this attribute file would use the following syntax:

```
pdpr -p logical_destination -Z emailfilename
```

where *logical\_destination* is **email-ld** and *emailfilename* could be named **/email\_script/samp.script** and stored on your local system.

This attribute file sends a report to a 'johndoe' Internet ID, using a logical destination (printer) named **email-ld** that you specify from the command line. Note that the convention *us.name.com* is used to indicate a company-wide addressing system, where it indicates the country (*us*), the company name (*name*) and the communications name (*com*) for all fully-qualified addresses in the company.

In this example, note that the document being sent (**sample.pdf**), the body of the note (**body.txt**), and the signature for the Email note (**sig.txt**) all reside in the **email\_script** directory of the AIX Infoprint server where you configured the Lotus Notes server.

Note that you cannot put comments in an attributes file using the **-Z** option.

## Example 2: Submitting Files with a Korn Shell Script

You can create a Korn shell script (named **sendfile** for this example) with a simpler command syntax because the **pdpr** command is included within the shell script.

Create a file that contains the **pdpr** command and all its attributes. Create the following Korn shell script and place it in a directory on the AIX system where you have installed the **pdpr** command.

The file should look similar to the following:

```
# Sample Attribute File for Infoprint Manager Email
# using a script to submit
# sendemail $1 $2
# $1 is required as the name of the file to send.
# $2 is optional as the recipient of the email.
#
#! /usr/bin/ksh

if [[ -a $1 && -n $1]]
then

if [ $2 ]
then
WHOTO=$2
else
WHOTO=" johndoe@us.name.com"
fi

/usr/lpp/pd/bin/pdpr -p email-ld \
```

```
-r brief
-x email-to-address=$WHOTO@us.name.com \
-x email-from-address=root@serv.us.name.com \
-x "subject-text='Your requested Email file'" \
-x document-type=printable $1 \
-x document-type=email-body ~/email_script/body.txt \
-x document-type=email-signature ~/email_script/sig.txt
```

else

```
echo " sendmail: $1 $2 could not locate file [$1]"
```

fi

At the command-line, this Korn shell script would use the following syntax:

```
sendfile outputfilename [destination]
```

where *outputfilename* specifies the file that you are sending (**sample.pdf**) and *destination* is the email address (**johndoe**) to which you are sending the file.

This script sends a note to either the [*destination*] value that you specify as the third argument on the AIX command line, or a 'johndoe@us.name.com' Lotus Notes ID, if you take the default. The script uses a logical destination (printer) named **email-ld** on your Infoprint AIX server.

Note that the convention *us.name.com* is used to indicate a typical Internet address for a business.

### Example 3: Submitting Text Files with a Korn Shell Script

You can create a Korn shell script (named **sendtxtfile** for this example) to submit ASCII text files as Email.

Create a file that contains the **pdpr** command and all its attributes. Create the following Korn shell script and place it in a directory on the AIX system where you have installed the **pdpr** command.

The file should look similar to the following:

```
# Sample Korn Shell Script for Infoprint Manager Email Text
#
# Uses a script to submit:
# sendtxtemail $1 $2
# $1 is required as the name of the file to send.
# $2 is optional as the recipient of the email.
#
# This script takes an ASCII file as input and creates
#PostScript output that is submitted with the pdpr command
# as email.

#! /usr/bin/ksh
if [[ -a $1 && -n $1]]
then

if [ $2 ]
then
WHOTO=$2
else
WHOTO=" johndoe@us.name.com"
fi
```

```

# Make temporary PostScript file
enscript -p /tmp/$$email.txt $1

/usr/lpp/pd/bin/pdpr -p email-ld \
-r brief
-x email-to-address=$WHOTO@us.name.com \
-x email-from-address=root@serv.us.name.com \
-x "subject-text='Your requested Email file'" \
-x document-type=printable /tmp/$$email.txt \
-x document-type=email-body ~/email_script/body.txt \
-x document-type=email-signature ~/email_script/sig.txt
# Delete temporary PostScript file
rm /tmp/$$email.txt

else
echo " sendtxtemail: $1 $2 could not locate file [$1]"
fi

```

At the command-line, this Korn shell script would use the following syntax:

```
sendtxtfile outputfilename [destination]
```

where *outputfilename* specifies the file that you are sending (**email.txt**) and *destination* is the email address (**johndoe**) to which you are sending the file.

This script sends an email to either the [*destination*] value that you specify as the second argument on the AIX command line, or to 'johndoe' Internet ID, if you take the default. The script uses a logical destination (printer) named **email-ld** on your Infoprint AIX server. This file uses the **enscript** AIX command to convert the text file to PostScript, stores that PostScript file in the **/tmp** directory on the submitting AIX system, and then deletes that file once the **pdpr** command has submitted the PostScript file to the Infoprint AIX server.

Note that the convention *us.name.com* is used to indicate a typical Internet address for a business.



## Using Infoprint Manager Commands with AFP Upload

Because the AIX client program for AFP Upload operates as an Infoprint Manager printer, it you can control and monitor it through the commands used with other Infoprint printers:

- To shutdown an AFP Upload physical printer, use the **pdshutdown** command that is documented in the *IBM Infoprint Manager for AIX: Reference Guide*, (S5445475-00).
- To find status about AFP Upload printers, you can use the **psfstat** command that is documented in the *IBM Infoprint Manager for AIX: PSF Direct Configuration Guide for System/370*, (S544-5486-00).

Both manuals are included on the documentation CD-ROM that is provided with Infoprint Manager 3.1.

**Note:** There are limitations to the tasks you can perform with an AFP Upload printer. You cannot forward space, backspace, or pause a job sent to an AFP Upload printer. To resume a job that has been paused on an AFP Upload printer, you should cancel a document with retention, then resubmit the job to the AFP Upload printer, because the **pdresume** command is not supported.