IBM

Infoprint Manager for AIX PTF U802055 (March 2005) Release Notes

Version 4 Release 2

> **Note!**
> Before using this information and the product it supports, read the information in "Notices" on page 9.

First Edition (March 2005)

This edition applies to IBM Infoprint Manager for AIX, Version 4 Release 2 Modification 0, PTF U802055, and to all subsequent releases and modifications until otherwise indicated in new editions. Be sure to use the correct edition for the level of the product.

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About PTF U802055 (March 2005)

PTF U802055 (March 2005) for Infoprint Manager for AIX, Version 4 Release 2, includes a major revision of *Infoprint® Manager for AIX®: Installation Instructions*, G544-5891, *Infoprint Manager for AIX: Getting Started*, G544-5817, and *Infoprint Manager: SAP R/3 Planning and Configuration Guide*, S544-5902. The information is available from the Printing Systems Division home page on the Web at `http://www.ibm.com/printers` or in the Printing Systems Division Information Center at `http://publib.boulder.ibm.com/infocenter/printer/index.jsp`.

This PTF includes:
- "Revised installation program for Infoprint Manager for AIX"
- "Support for AIX 5.3"
- "Support for MVS JCL parameter values with NLS characters"
- "Cyrillic support added to sap2afp transform"

Revised installation program for Infoprint Manager for AIX

PTF U802055 (March 2005) includes a revised installation program for Infoprint Manager for AIX. The new installation program is described in *Infoprint Manager for AIX: Installation Instructions*, G544-5891, and *Infoprint Manager for AIX: Getting Started*, G544-5817. The information is available from the Printing Systems Division home page on the Web at `http://www.ibm.com/printers` or in the Printing Systems Division Information Center at `http://publib.boulder.ibm.com/infocenter/printer/index.jsp`.

Support for AIX 5.3

With PTF U802055 (March 2005), Infoprint Manager for AIX, Version 4 Release 2, now supports AIX 5.3.

Note: Infoprint Job Ticketer is not supported under AIX 5.3.

Support for MVS JCL parameter values with NLS characters

With PTF U802055 (March 2005), support is now provided for MVS™ JCL parameter values with NLS characters. MVS JCL parameters with NLS characters are used for address, department, programmer name, room, and so forth.

With Infoprint Manager for AIX, the **mvsprsd** command has been revised to include a flag for the host code page (**-H**) and a flag for the local code page (**-L**), so that the JCL parameter values are converted using the specified code pages. For more information on this change to **mvsprsd**, see "Changes to the mvsprsd command" on page 3.

Cyrillic support added to sap2afp transform

The **sap2afp** transform now includes support for Cyrillic OTF (Output Text Format) and ABAP (Advanced Business Application Programming) data streams. For more information, see *Infoprint Manager: SAP R/3 Planning and Configuration Guide*, S544-5902, which is available from the Printing Systems Division home page on the Web at `http://www.ibm.com/printers` or in the Printing Systems Division

Information Center at
`http://publib.boulder.ibm.com/infocenter/printer/index.jsp`.

Two page definitions are included with the Cyrillic support: **P1CYR182** and
P1CYR683. See "Additional Cyrillic page definitions" on page 6 for more details on
these page definitions.

Limitations

Restrictions with 2 gigabyte files

As of PTF U802055 (March 2005), the 2 gigabyte file support does not apply when
the **pcl2afp**, **pdf2afp**, and **ps2afp** transforms are run from the command line.

Also, the server does not support transforming PCL, PDF, and PostScript
datastream files larger than 2 gigabytes.

Infoprint Job Ticketer not supported under AIX 5.3

As of PTF U802055 (March 2005), Infoprint Job Ticketer is not supported under AIX
5.3.

APARs included in PTF U802055 and PTF UO00043

The March 2005 PTFs include these APARs:

IY63624	**pcl2afp** transform line spacing and font selection not correct
IY64620	**sap2afp** fails with "Default Message not available"
IY65491	Jobs remain in processing or printing state even after they have printed
IY66351	023F nack w/ print 1 page
IY67160	Transform subsystem **%j** value not as documented
IY66253	Hot folder jobs disappear when `/var/pd` full
IY62451	NLS in MVSD Receiver's Attrib Value
IY66796	pseg coordinate system lost
IO00128	MVSD receiver for Windows® cannot print a percent sign in JCL
IO00354	Server crash when rip fails with many errors
IO00518	Allow neg ovly offsets on PMCs
PQ97073	ACIF(At level PQ93772 in IPM Windows v2.1.0 and IPM AIX v4.1.0) is not able to locate resources with the .FDE and .FDEF38PP extensions if the reslib, userlib, etc... is specified with a trailing \ or / (depending on platform). For example, reslib=/data/resources/
PQ98316	1) When using TrueType fonts, if a user specifies EXTENSIONS=PASSOID to get the OID from the RAT, there are an extra six bytes of x⌐00⌐ at the end of the BRS structured field, and not all of the OID data is passed correctly. 2) On the BRS structured field when TT fonts are saved in the RESOBJDD files, the object type OID for a font collection is wrong. It is x⌐06072B120004010133000000000000000⌐ but should be x⌐06072B120004010135000000000000000⌐.
PQ95325	Incorporate PSF/MVS APAR OA05555 into ACIF. That is, add PRINTJOB finishing support. This support allows customers to staple their header, trailer, user pages, and message pages all together. The PPFA APAR that enables this function is PQ80950.

> **Note:** These APARs are against Infoprint Manager for AIX Version 4.1 and Infoprint Manager for Windows Version 2.1.

Documentation updates

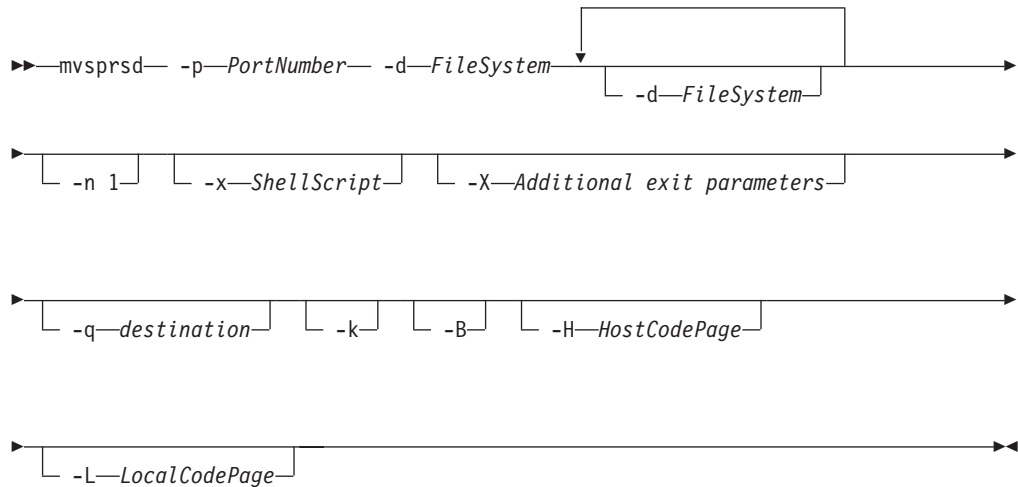Information that has changed since it was published is marked with a vertical bar (I) to the left of the change.

Changes to the mvsprsd command

The following section comes from "Daemon utilities for IBM® Infoprint Manager for AIX" in Chapter 2, "Infoprint Manager Tools" in the *Infoprint Manager: Reference*, S544-5475.

mvsprsd utility: starts the MVS download receiver daemon

Syntax:

mvsprsd utility

```
►►──mvsprsd── -p─PortNumber── -d─FileSystem─┬──────────────────┬──────►
                                            └─ -d─FileSystem─┘

►─┬────────┬─┬──────────────┬─┬──────────────────────────────┬──────►
  └─ -n 1─┘ └─ -x─ShellScript─┘ └─ -X─Additional exit parameters─┘

►─┬─────────────────┬─┬─────┬─┬─────┬─┬──────────────────┬──────────►
  └─ -q─destination─┘ └─ -k─┘ └─ -B─┘ └─ -H─HostCodePage─┘

►─┬──────────────────┬──────────────────────────────────────────────►◄
  └─ -L─LocalCodePage─┘
```

| *Description:* Use the **mvsprsd** utility to start the MVS Download Receiver
| daemon. This daemon receives the data that MVS Download transmits from the Job
| Entry Subsystem (JES) spool on an MVS system.

You can specify that the **mvsprsd** daemon starts whenever the system starts by including the **mvsprsd** command in one of the files that are executed when the AIX operating system is initialized. The two types of files that are read during AIX initialization are **/etc/rc** files and the **/etc/inittab** file.

If the **mvsprsd** daemon stops running for some reason, you can restart it by issuing the following command:

```
/usr/lpp/psf/bin/mvsprsd -p PortNumber -d FileSystem -x ShellScript
   -q destination -k
```

If your job does not print on Infoprint, you might be able to restart the shell script process with the downloaded file and downloaded print-options string. If you

specified the **-k** flag on the print command, you can use the following command to restart the shell script with its required parameter list:

```
/usr/lpp/pd/bin/mvsprpsm.sh FileName.PRD "$(cat string.JCL)" destination
```

where *FileName*.**PRD** represents the file successfully downloaded to Infoprint as **MVS_***system_name.jobname.dataset_name.forms_name.yyyyddd.hhmmsst***ABCD.PRD**; and where *string*.**JCL** represents the MVS print options string that is saved to a file named in the following format:
MVS_*system_name.jobname.dataset_name.forms_name.yyyyddd.hhmmsst***ABCD.JCL**.

Note: The string **/usr/lpp/pd/bin/mvsprpsm.sh** refers to the shell script that is provided with this command. Check to see that your installation has not modified this shell script or added another shell script before specifying this value.

Flags: The **mvsprsd** daemon utility uses the following flags:

```
├── -p─PortNumber────────────────────────────────────────────────────────┤
```

Specifies the socket port number for the daemon in the valid range (5001-64000). Do not use 8251 and 8253, which are used by Infoprint for the PCL and PostScript data transforms. The port number must be the same as the port number specified in the routing-control data set used by MVS Download.

```
                        ┌─────────────────────┐
                        ▼                     │
├── -d─FileSystem─────────┴─────────────────────┴────────────────────────┤
                          └─ -d─FileSystem─┘
```

Specifies a file system where Infoprint stores the received file until the shell script you specify in the **-x** flag processes and deletes the file. The **mvsprsd** daemon must have write permission for the file system.

You must specify at least one file system. You can specify up to ten file systems. If you specify more than one file system, the file system having the most available space is used. To specify more than one file system, specify the entire flag again:

```
-d FileSystem1 -d FileSystem2 ...
```

```
├──────────────────────────────────────────────────────────────────────┤
    └─ -n 1─┘
```

If you are working with multi-data set support, you must specify **-n 1** when you start the **mvsprsd** daemon on AIX. The **-n 1** option restricts the **mvsprsd** daemon to receive one data set at a time.

If you did not previously specify **-n 1** and you received multiple files concurrently, you may wish to start more than one instance of the **mvsprsd** daemon (using different port numbers) and configure new MVS Download printers on MVS to communicate with them.

For more information about the limitations of multi-data set support with MVS Download, see the chapter entitled "Printing data sets from an MVS system through MVS Download" in the *Infoprint Manager for AIX: Procedures*.

```
         ─── -x─ShellScript ───
```

Specifies the complete path name and file name for the shell script that the
daemon executes to process the files sent by MVS Download. You can specify
the file name of the shell script without the path name and it will default to the
/usr/lpp/pd/bin path.

The daemon forks a child process to execute the shell script after each
successfully received file. If you do not specify the path name of a shell script,
the received files are not printed and remain on the file system.

Infoprint provides a shell script, **mvsprpsm.sh**, which submits a file to the **pdpr**
command for printing and deletes the file if the file prints successfully. This shell
script is installed in the **/usr/lpp/pd/bin** directory.

```
         ─── -X─Additional exit parameters ───
```

For the exit supplied with the Infoprint Manager base product, no values should
be entered.

If you are using custom exits, consult with the person responsible for the custom
exits to determine what to enter here.

Note: With Infoprint Manager for AIX when you use the script supplied with the IBM
Infoprint LCDS and Meta Driver for AIX PRPQ (5799–GYT), see *Infoprint
Manager LCDS and Meta Driver for AIX: Installation and User's Guide* for the
values to enter.

```
         ─── -q─destination ───
```

Specifies the name of the logical destination to which the shell script can submit
the file. If you specify a logical destination, you should also specify the name of
a shell script on the **-x** flag that the program uses to submit files to the logical
destination.

If you specify this shell script on the **-x** flag, you must specify the **-q** flag or
mvsprsd displays its command syntax and exits.

If you do not specify a logical destination name, the received files are not
printed and remain on the file system.

```
         ─── -k ───
```

Specifies that the MVS print-options string is kept on the file system and can be
used later for error recovery. If a file is transferred from MVS to AIX successfully,
but does not print because of a problem, IBM recommends that you specify this
option so that the job can be resubmitted for printing from the AIX operating
system.

```
   ┌──────────────────────────────────────────┐
   └─ -B ─┘
```

Specifies that a limited EBCDIC to ASCII conversion should be performed on received MVS parameters. Upper and lower case alphabetic, numerics, and a limited set of special characters are converted. All other characters are changed to an underscore character.

```
   ┌──────────────────────────────────────────┐
   └─ -H─HostCodePage ─┘
```

Specifies the Host code page used when the JCL was submitted

When you specify the **-H** flag, and the conversion from EBCDIC to ASCII fails, the receiver uses the default conversion table (inter-operable Latin-1 characters).

```
   ┌──────────────────────────────────────────┐
   └─ -L─LocalCodePage ─┘
```

Specifies the Local code page where the MVS Download receiver is running.

When you specify the **-L** flag, you must also specify the **-H** flag.

When you specify the **-H** and **-L** flags, and the conversion from EBCDIC to ASCII fails, the receiver uses the default conversion table (inter-operable Latin-1 characters).

Note: When you specify the **-B** and **-H** flags, and optionally, the **-L** flag, together, and the code page conversion fails, the NLS characters in the JCL parameter values are converted to an underscore character (_) so that an invalid character is not inserted into the DBCS einvironment.

Examples:
1. To start an MVS Download daemon that stores files received from the JES spool on the `/files1` or `/files2` file system and executes the **mvsprpsm.sh** shell script, which submits the files to the `serv2-lp` logical destination, enter:

   ```
   mvsprsd -p 5400 -d /files1 -d /files2 -x mvsprpsm.sh -q serv2-lp
   ```
2. To have the same MVS Download daemon keep the MVS print-options string file(s), enter:

   ```
   mvsprsd -p5400 -d/files1 -d/files2 -qserv2-lp -k
   ```

Note: Anyone can start the **mvsprsd** daemon, but only someone with **root** authority can stop it.

Suggested reading:
* *PSF for z/OS®: Download Guide*
* The man pages for the **rc** command and the **inittab** file

Additional Cyrillic page definitions

The following section comes from Appendix D, "Form definitions and page definitions supplied with Infoprint" in *Infoprint Manager: Reference*, S544-5475.

Page definitions for A4-sized paper

Table 1. Page definitions for A4-sized paper

Page Definition	Printable Area (Width by Height, In Inches)	Print Lines per Page	Print Position: Down or Across	Recom- mended Font	Printing Direction	Page Orientation
P1C09182 [1]	7.94 by 11.36	91 at 8.2 lpi	25/0	**GT12**	Across	Portrait
P1CYR182 [1, 5]	7.94 by 11.36	91 at 8.2 lpi	25/0		Across	Portrait
P1CYR683 [1, 2, 3, 5]	10.67 by 7.94	66 at 8.5 lpi	24/224		Down	Landscape
P1V0436B [2]	10.67 by 7.11	43 at 6.1 lpi	30/0	**GT10**	Up	Landscape
P1V04863 [1, 2]	10.67 by 7.94	48 at 6.1 lpi	30/0	**GT10**	Down	Landscape
P1V0588B [2]	10.67 by 7.11	58 at 8.2 lpi	24/0	**GT12**	Up	Landscape
P1V0598B [2]	10.67 by 7.11	59 at 8.2 lpi	24/0	**GT12**	Up	Landscape
P1V0608B [2, 3]	10.67 by 7.11	60 at 8.5 lpi	24/224	**GT15**	Up	Landscape
P1V0618B [2, 3]	10.67 by 7.11	61 at 8.5 lpi	24/224	**GT15**	Up	Landscape
P1V06483 [1, 2]	10.67 by 7.94	64 at 8.2 lpi	24/0	**GT12**	Down	Landscape
P1V06683 [1, 2, 3]	10.67 by 7.94	66 at 8.5 lpi	24/224	**GT15**	Down	Landscape
P1X04763 [2, 4]	10.60 by 7.77	47 at 6.1 lpi	30/0	**GT10**	Down	Landscape

1. Designed to work with 3820, 3827, 3835 printers.
2. Designed to work for letter-sized and A4-sized paper.
3. The printable area is 9.74 by 7.94 inches because of the 224 logical unit offset in the "Print Position: Down/Across" column.
4. Designed for use with HPCL and PPDS data streams.
5. Designed for Cyrillic support for the **sap2afp** transform and shipped with the Infoprint Manager: SAP Print Feature. This page definition calls the codepage T1001172 (Cyrillic Multilingual with Box Draw) with character set CZ4203 (Courier Normal) and CZ4403 (Courier Bold) directly.

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