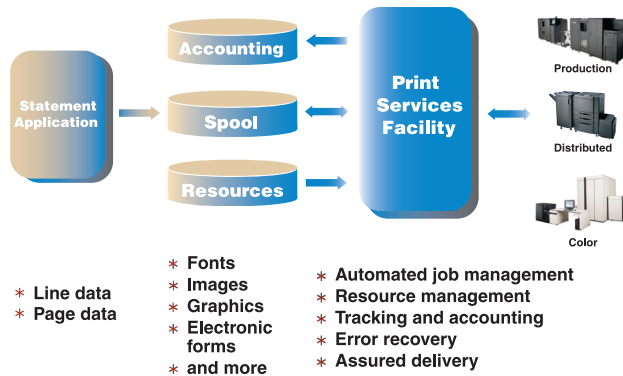


## IBM Print Services Facility V3R3 for OS/390 and z/OS

### PSF Printing Workflow

Reduce manual tasks....Automate the Process



The effectiveness of strategic communication depends on the management of the print environment and the quality of final output. Companies need flexible printing systems that can improve and extend output capabilities while electronically distributing documents reliably and efficiently.

IBM Print Services Facility™ (PSF®) V3R3 for OS/390® and z/OS™ is the ideal printing solution for OS/390-based businesses requiring a reliable, system-managed printing solution. PSF V3R3 improves upon the previous release by introducing new automated and integrated functionality, helping ensure the reliable and efficient distribution of high-quality, high-value documents throughout your enterprise. Whether you're printing in a centralized or distributed environment, PSF V3R3 gives you the end-to-end print management solution you need to support your growing e-business needs.

### Highlights

- **Extends PSF capabilities to support high-value printing**
- **Brings XML capability to AFP to support e-business applications**
- **Simplifies system-managed printing via new management tools**
- **Delivers output flexibility through new finishing options**
- **Extends integration of PSF with IBM Infoprint Server to leverage AFP investments**
- **Utilizes application-enabling tools from IBM and third-party vendors**

### Taking your printing system to the next level

Electronic communication continues to play a key role in helping to build and maintain profitable customer relationships. As networks grow, so does a company's opportunity to reach more people over expanded geographies. But simply using the network to disseminate information is not enough in today's competitive marketplace. Without control over its output, a company gambles with its brand identity and puts its messaging at risk.

### **Adding functionality to support new e-business applications and effective system-managed printing**

Since its introduction in 1985, IBM Advanced Function Presentation™ (AFP™) technology has become the de facto industry standard for high-function, system-managed printing in centralized and distributed environments in z/OS. With PSF V3R3, IBM Printing Systems introduces the latest release of IBM PSF for OS/390 and z/OS—the printing subsystem that gives IBM OS/390 and z/OS platforms access to AFP printing functions.

PSF V3R3 offers new application and print management capabilities that enable you to:

- *Print files containing Extensible Markup Language (XML) data on AFP production printers*
- *Create and print AFP applications containing 2-D bar codes*
- *Exercise more flexible control over finishing options*
- *Create and print AFP applications that use variable data contained in the print file to select overlays and page segments*
- *Collect statistics about the resources used to print a job*
- *Display printer hardware characteristics and capabilities*
- *View current status information for TCP/IP-attached devices*
- *Invoke additional PSF printer processing options using the complementary Infoprint Server Printer Inventory menu panels*
- *Migrate from Job Entry Subsystem (JES) line printers to printers driven by PSF without JCL changes*

With IBM PSF V3R3, you get a flexible printing system that improves and extends your output capabilities while delivering reliable results at greater levels of efficiency.

### **Offering new management tools to simplify system-managed printing**

PSF V3R3 includes new application and operations management tools to help you manage complex print applications and printer environments more easily. You can leverage the new AFP application statistics report (AFP STATS) to help minimize hassles when moving applications from one system to another. AFP STATS generates a detailed report for each print job, giving you information such as resource name, type, size and library. Summary reports can be produced according to resource type, data set, location and other variables. Significant events that occur during printing are also included in the documentation.

In addition, a new PSF display option lets you obtain a report of the characteristics and capabilities of any Intelligent Printer Data Stream™ printer in your environment. This enables you to reliably deliver output in multi-printer environments where printer-capability information is critical. You can more quickly and easily discern which

printer to use for each job when you have access to individual printer capabilities such as N\_Up formatting, cutsheet emulation, multiple resolutions and outline fonts.

### **Delivering value by enabling greater document customization**

The documents you produce can drive effective customer communication. In addition to the PSF functionality you've come to rely on—high-quality graphics and image output, bar codes and full-color capabilities—PSF V3R3 enables you to create and print AFP applications containing 2-D bar codes; use variable data contained in the print file to select overlays and page segments; and exercise more control over stapling and other finishing features. With expanded finishing options, flexible formatting and increased barcode capabilities, you have more ways to maximize the effectiveness of your printed output.

**Bringing XML capability to AFP to support e-business applications**

When PSF was first introduced, one of its biggest advantages was that it enabled the immediate migration and enhancement of line-printer applications to high-quality, high-function laser printers, without the need to make changes to applications. The release just prior to PSF V3R3 (V3R2) introduced Record Formatting page definitions, a new kind of layout for unformatted print records that provided users with even more flexibility.

XML, the standard, open data format for e-commerce applications, enables seamless transactions between both businesses and applications within an enterprise. PSF V3R3 takes AFP flexibility to the next level by introducing new AFP architecture and support for XML, enabling you to process brand new types of print data. An AFP page definition (created using IBM Page Printer Formatting Aid or other tools) specifies how each XML tag or sequence of tags in the data should be formatted, extending AFP output support to new e-business applications.

**Leveraging AFP investments through PSF integration with Infoprint Server**

With PSF V3R3, PSF printers can be defined in the Infoprint® Server Printer Inventory menu panels. This gives users anywhere in the network access to fast, reliable AFP printing. Jobs submitted to Infoprint Server can be transformed into AFP from a variety of common datastreams, including PCL, Adobe® PostScript® and Portable Document Format (PDF). These transformed streams are put on the JES spool, where they can be printed on PSF-attached printers. You get the same reliability, recovery and automatic System Management Facility (SMF) accounting as with your MVS batch jobs, helping you leverage your investment in AFP printers and increase your control over printing costs.

**Serving all your printing needs**

PSF V3R3 is the ideal printing solution for OS/390 and z/OS customers who need a reliable, system-managed production printing solution that provides superior resource management, output fidelity, print completion, charge-back capability and auditability. Its new functions let you process more kinds of business data and improve print management productivity.

The people of IBM Printing Systems are committed to blazing the e-business trail. We provide leading-edge printing solutions to transform the way our customers do business. Our industry expertise gives us the ability to provide innovative and cost-effective printing solutions that link information with output across the enterprise.



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## IBM Print Services Facility at a glance

For expanded specifications visit: [ibm.com/printers/psf](http://ibm.com/printers/psf)

### PSF Base

Requests jobs from JES spool, accesses and manages print resources, drives IPDS printers, performs error recovery and creates accounting records. PSF can process the following data types:

- OS/390 and z/OS line data
- Native AFP data (also called MO:DCA)
- Mixed line data and AFP data
- Unformatted records with self-identifying headers
- XML-tagged data

### PSF Direct

Prints over SNA to a server running Infoprint Manager for AIX or Microsoft® Windows®. Resources are managed by PSF, and jobs are under the control of a JES operator

### Distributed Print Facility

Prints over SNA to a server running Infoprint Manager for AIX or Windows. Resources and jobs are managed at the Infoprint Manager server.

### AFP Download

Automatically sends print jobs from the JES spool to an IBM pSeries™ server over TCP/IP. A print or archive server such as Infoprint Manager or Content Manager OnDemand receives the jobs for printing or archiving. (Optional feature of PSF.)

### AFP Upload

Automatically sends print jobs from AIX over TCP/IP or SNA to the JES spool for printing by PSF. (Optional feature of PSF.)

### AFP Conversion and Indexing Facility

Converts line data into the AFP datastream using formatting instructions in a page definition. Optionally, print files can be indexed for searching with an AFP browser plug-in, tagged into groups and bundled with the print job's resources for archival and retrieval. (Optional no-charge feature of PSF.)

### Compatibility Fonts

Provides a set of 240 dpi and 300 dpi raster fonts that are compatible with the typefaces commonly used on typewriters and on older printers such as the IBM 6670 and 3800. (Optional no-charge feature of PSF.)

### AFP Statistics about the Print File

Provides detail and summary reports of all resources used to print a job, and significant events that occur during job processing.

