



# PRINT SUBSYSTEM

Part of the Scop Software Suite

AFP printing and AFP2PDF conversion for z/OS® and z/VM®

## Mainframe printing software using network printers

The Print SubSystem (PSS) is a print spooler for z/OS® and z/VM® that lets you print your mainframe output on network printers or stores the output as PDF making it ready for online access.

## About Print SubSystem

PSS is simple to install and use, while it provides a reliable method of host generated PDF and e-mail output as an add-on to your printing solution.

AFP printing on common laser printers is easily implemented using the same resources as IBM PSF. PSS converts AFPDS and existing line based legacy applications output adding forms (overlays), graphics and colour images, all without changing the host legacy or batch application.

PSS prints the host output directly on PCL, PostScript, ASCII and SCS printers using TCP/IP or SNA networks.

## Ready for AFP/Archive (AFP/A) ISO standard

Enterprise Print Manager is prepared to support the new AFP/Archive (AFP/A) standard. ISO 18565:2015 specifies the AFP document architecture by defining a subset appropriate for long-term preservation and retrieval of documents and resources.

The subset assures page independence and eliminates the use of resolution dependent fonts and images, device default fonts and external resources.

## Print SubSystem on z/OS®

PSS on z/OS® processes data from JES Spool or CA Spool. AFP, XML and line data are processed and transformed into PCL, PostScript, PDF, or ICDS. PSS prints spool data on TCP/IP and SNA connected network printers.

The AFP to PDF conversion output on z/OS® may either be written to disk or distributed using e-mail or automatically initiated File Transfer.

## Web enabling your z/OS output

AFP2PDF conversion (z/OS) web-enables the host data. Several output options are available. PSS either stores the PDF output in an z/OS data set or initiates a direct e-mail output. Also an automatically submitted JCL deck (JCL Submit) can initiate a File Transfer or other methods of post processing.

The way the output is delivered is independent of your existing applications, thereby providing new options for web-enabled output delivery.

## Key features

- ✓ Compliant with all z/OS® and z/VM® levels
- ✓ Input format in AFP, XML and Line Data
- ✓ Support for outline font
- ✓ Support for IPV6
- ✓ Prepared for AFP/Archive (AFP/A) ISO standard

## z/OS features

- ✓ JES and CA spool support
- ✓ Support for PDF/A
- ✓ Output in PCL, Postscript and PDF
- ✓ E-mail output as attached file

## z/VM features

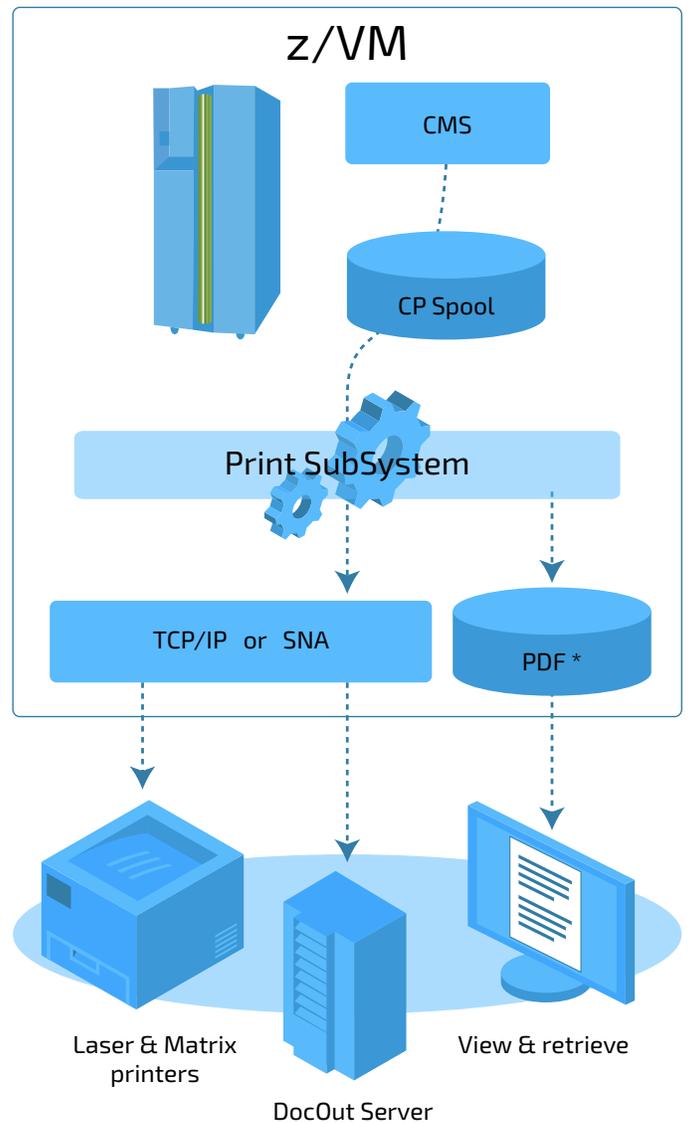
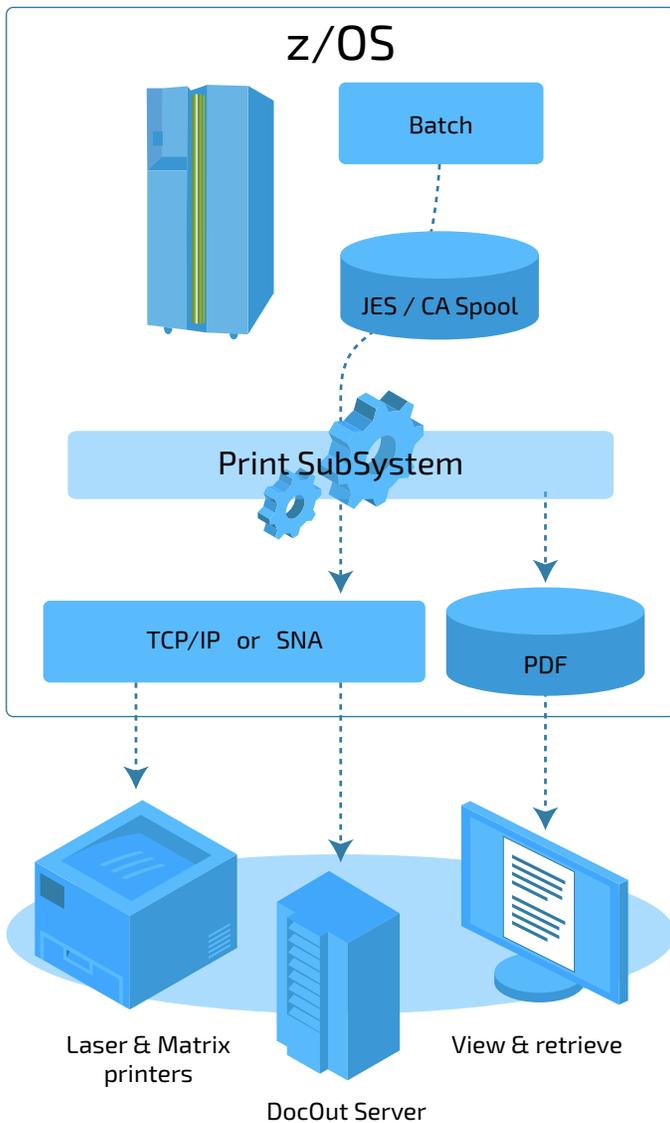
- ✓ CP spool printing
- ✓ Output in PCL and Postscript



Take control of your document life-cycle management

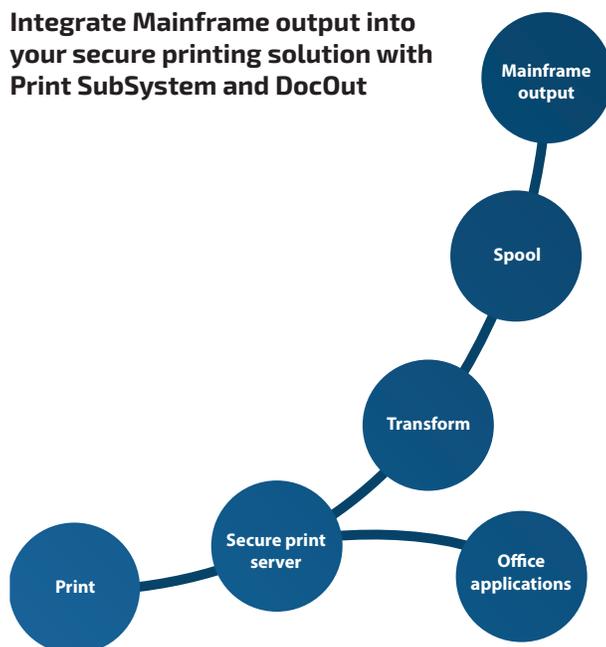
[www.mpitech.com](http://www.mpitech.com)

# Print SubSystem at work



\* PDF creation requires DocOut or similar product

## Integrate Mainframe output into your secure printing solution with Print SubSystem and DocOut



The MPI Tech solution spools the print jobs from the host server through the MPI Tech Print Sub System (PSS). Print jobs include information about job header and user name, that are recognised and associated with the user account in the secure print management system.

Our DocOut application converts the print stream into PCL or PostScript format that can be printed on standard office printers and MFPs.

The print stream can be directed to practically any pull printing solution on the market.

The host server print jobs are stored on the secure print server alongside standard office application output until the document owner logs in at printer or MFP and selects the document to be printed.

## Print SubSystem on z/VM®

PSS on z/VM® processes data from CP Spool. AFP, XML and line data are processed and transformed into PCL, PostScript, or ICDS and printed. PSS prints spool data on TCP/IP and SNA connected network printers.

PDF output from z/VM® can only be produced in combination with the windows server solution DocOut.

## Full colour support

Full colour support allows you to print colour output using low cost PCL5C and PostScript printers or create PDF output. Enhance the appearance and quality of existing application data using full colour images, combined with coloured text, graphics, bar codes, boxes and rulers.

PSS allows you to print existing applications to almost any existing legacy 3270 printer, ASCII printers and PCL and PostScript printer devices using common, already installed LAN attachments.

## Performance and control

Several features ensure high performance and throughput, such as caching of AFP resources in virtual storage and use the resident fonts on PostScript printers. End2end control is provided using TCP/IP port 9100 and PJL.

## Minimizing CPU and network load

By combining PSS with the DocOut Server Software a significant off-load of the mainframe and the network may be achieved. PSS administers the AFP processing as usual.

DocOut handles the resources and final conversion into PCL5C, PostScript or PDF. DocOut operates with remote AFP resources, thus allowing fonts, overlays and page segments to be stored on the server.

PSS and DocOut perform an automatic resource checking, including versioning (timestamp). This ensures that the correct AFP resources are always used. The CPU and network load can be lowered significantly since only the variable data is transmitted. The PSS – DocOut combination supports SNA as well as TCP/IP.

## Specifications

### Input Data Streams

- z/OS®: JES spool, line data, AFP and XML
- z/VM®: CP spool, line data, AFP and XML

### Output Data Streams

- HP PCL 4, 5e, 5c
- Adobe PostScript Level 2
- ASCII
- 3270 (SCS or DCS)
- z/OS® only: Adobe Portable Document Format (PDF), incl. PDF/A

### Printer Network Protocols and Attachments

- TCP/IP: LPD, 9100, IPP, PPD/PPR (with DocOut)
- SNA: LU\_0, LU\_1, LU\_3, LU\_6.2 (using DocOutTM)
- Transparent printing
- e-mail (using SMTP)
- File output (z/OS dataset and Hierarchical File System output)

### System Requirements

- PSS/MVS: z/OS, JES2, JES3 or CA Spool
- PSS/VM: z/VM

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D16122-011 December 2015

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