*Connecting new applications
and users to OS/390 print services.*

IBM

OS/390 Print Server

Software Solutions

Today, popular applications such as Lotus® Domino™, SAP R3, PeopleSoft, JD Edwards' OneWorld and others exploit IBM® OS/390® technology. These solutions, along with client applications, can greatly increase print volumes. To meet this requirement, IBM developed OS/390 Print Server™ as an optional feature of OS/390 Version 2 Release 5. OS/390 Print Server enables S/390 to act as an enterprise print server by allowing it to handle host and LAN printing.

OS/390 can re-host workloads to the S/390 platform to help customers reduce complexity and operating costs by reducing the number of servers, administration and support staff, and duplication of applications and data.

The OS/390 Print Server allows you to consolidate print workload to your S/390 Parallel Enterprise Server™. Consolidating print functions onto a scalable server allows you to match the optimal printer to specific print jobs, balance print workload

across available printers and more easily manage your printer inventory. This new function allows access to fast and reliable Advanced Function Presentation™ (AFP™) printers or TCP/IP-connected ASCII printers from OS/390 and LAN clients.

A Complete Solution

OS/390 Print Server is the foundation of a total print serving solution in the OS/390 environment. It extends the functionality provided by the optional IP PrintWay™/NetSpool™ feature of OS/390. With the addition of a new Print Interface component of OS/390 Print Server, IBM now gives you an end-to-end, integrated solution, from print submission to printing.

The OS/390 Print Server includes these components:

• *IP PrintWay* routes any print data on the JES spool from OS/390 to a printer in the TCP/IP network or to another system's

Highlights

- Lays the foundation for an end-to-end, integrated print serving solution

- Connects network users and OS/390-based UNIX applications to OS/390 printers and print services

- Enables you to reduce printing costs by consolidating print workload to OS/390

- Provides access to TCP/IP network printers and AFP printers from any OS/390 user or application

- Includes IP PrintWay and NetSpool, previously available as an OS/390 optional feature

- Allows users to browse and print documents from the Web

spool using standard LPR/LPD protocol or direct-socket printing. IP PrintWay is superior to TCP/IP Network Print Facility (NPF) for MVS® in usability, performance, capacity and function. It is the strategic replacement for NPF.
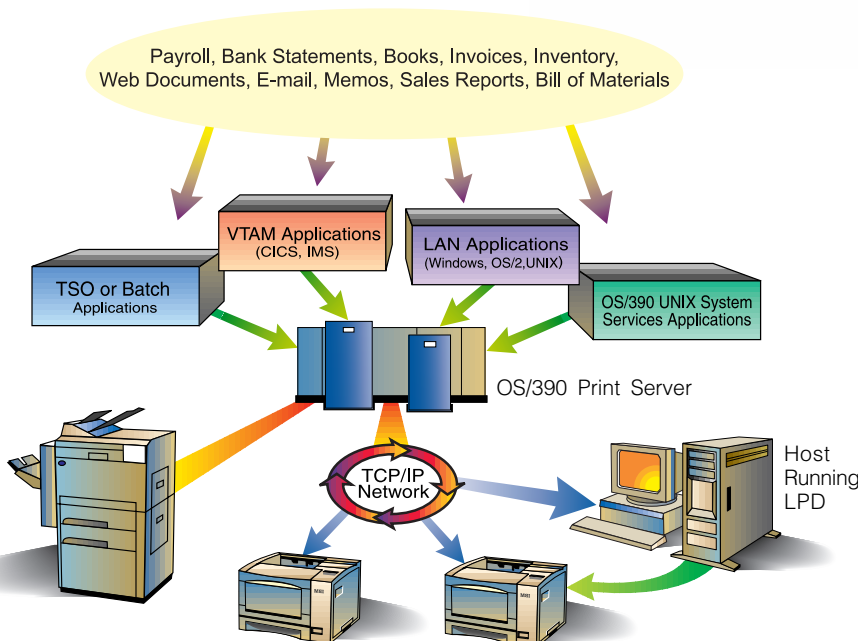
Applications can distribute print over TCP/IP using IP PrintWay to LAN-attached PCL and PostScript printers, such as IBM's Network Printer family. Output may be directed to any channel, coax or LAN-attached AFP/IPDS™ printers (SNA or TCP/IP), such as the IBM InfoPrint™ 60, using Print Services Facility™ (PSF™/MVS), a complementary software offering to IP PrintWay.

• *NetSpool* automatically reroutes VTAM™ application output (such as from CICS® or IMS™) to the JES spool without requiring application program changes.

Payroll, Bank Statements, Books, Invoices, Inventory, Web Documents, E-mail, Memos, Sales Reports, Bill of Materials

VTAM Applications (CICS, IMS)

LAN Applications (Windows, OS/2,UNIX)

TSO or Batch Applications

OS/390 UNIX System Services Applications

OS/390 Print Server

TCP/IP Network

Host Running LPD

- *OS/390 Print Interface*™ extends robust JES print serving capabilities to users and application programs in the LAN and OS/390 UNIX® System Services environments. OS/390 UNIX System Services provides you with the flexibility to run UNIX applications on OS/390.

The OS/390 Print Interface includes a TCP/IP LPD interface to the JES spool, providing clients and applications in the OS/390 environment with access to OS/390-managed printers.

- *Workstation Client Support* provides the AFP Viewer plug-in for Windows® browsers and the AFP Print Driver for Windows, which allow output to be viewed and then printed to any of IBM's AFP printers. In addition to AFP function, client workstations, including Windows 95™, NT™, UNIX, XStation® and the IBM Network Station, can take full advantage of the OS/390 Printer Server's many benefits.

Submit Print Jobs with IP PrintWay or PSF/MVS
Users can submit print jobs from OS/390 and LAN clients to JES for printing on any IP PrintWay or PSF/MVS printer. OS/390 manages printers and print jobs, making print jobs secure and recoverable as well as logging OS/390 accounting information automatically.

Data Stream Detection
OS/390 Print Server automatically detects the data stream for jobs submitted from its clients. The OS/390 Print Server then ensures each job has the correct attributes for printing on the target printer. Elimination of incorrect output saves paper and users' time.

Access to Any Printer in the Enterprise
Typically, printers are often attached to a single workstation or are available only to users of a LAN. OS/390 Print Server allows you to define all your printers in a centralized repository, allowing any user in the network to send jobs to any printer that is defined to the OS/390 Print Server. This can reduce the overall cost of enterprise printing while improving usability, manageability and security.

Support for Popular Printer Languages
OS/390 Print Server is an open system implementation based on industry and de-facto printing standards. It provides support for the most commonly used printer languages, including PostScript, PCL and AFP/IPDS. OS/390 Print Server protects your investment in printer hardware and enables easy addition of new printers.

Job Status and Completion Notification
Users spend unnecessary time checking their network printer to see if their job has printed successfully. They may re-submit the job several times. With OS/390 Print Server, users can query the status of their print jobs to find out if the job has started, is processing or is complete. The OS/390 Print Server also notifies users of job completion. These capabilities save time and paper.

Create AFP Output from Windows Applications
Because of its superior functionality, AFP has become the industry standard for production printing. It provides automatic resource management, error recovery, integrated accounting and ability to print from 10 to more than 1,000 pages per minute without application changes. You can print from any Windows application, such as Lotus WordPro™ or Freelance™, on any of IBM's OS/390-managed Advanced Function Printers.

Browse and Print Documents from the Web
Many OS/390 production applications generate documents formatted for AFP/IPDS printers. Your employees and customers may need to view those documents in an archival system or on a Web server from their desktops. OS/390 Print Server includes the AFP Viewer plug-in for Netscape and Internet Explorer Web browsers so users can view AFP documents from their Web browser as they are printed. Using OS/390 Print Server, Web documents viewed in a browser can be printed to any printers registered to the server.

OS/390 Print Server at a glance

Hardware Requirements	IBM processors capable of supporting OS/390 Version 2 Release 5 or above
Software Requirements	The OS/390 operating system must be at Version 2 Release 5 or above

G544-5566-00