

SecureJet backgrounder  
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## **SecureJet 4.0** **Secure & Control Printing, Copying, Scanning and Fax Usage**

### **Background**

Corporations, universities, libraries and a myriad of other organizations have a new set of ALL-IN-ONE tools to Print, Copy, Scan, Fax and e-mail.

**HP's LaserJet MFPs** (MultiFunction Printers/Copiers) do it all.

And the **SecureJet™ 4.0 Printing Solution** makes sure that only appropriate, authenticated recipients get confidential printouts and that only authorized parties can use the printers/MFPs.

### Consolidation Requires Controlling Usage

Because paper-based documents can be digitized (e.g., scan-to-email) and digital documents are frequently printed, it makes sense to consolidate printing, copying and scanning functions into one unit with strong network capabilities.

In today's networking environments, staying competitive means having to improve return on investment, productivity, and the intrinsic and perceived quality of an organization and its products. Printing provides tremendous, untapped opportunities for just such improvements. Controlling printing and printer/copier/fax usage is the job of the **SecureJet™ 4.0 Printing Solution**.

### SecureJet™ 4.0

- Prevents unauthorized digital sending and photocopying.
- Tracks and logs photocopies, digital sending and email usage.
- Provides a PIN Code or SmartCard-based secure printing solution for HP LaserJet MFPs.
- Safeguards the content of business documents, sensitive electronic forms and all other print resources.
- Protects and encrypts print jobs and controls delivery all the way from the application to hardcopy output, from the desktop PC (or laptop or palmtop) to the printer and the printed page.
- Keeps secure any documents stored on the printer hard drive.

## Why do I need SecureJet 4.0?

Controlling photocopy, printing and digital sending usage is vital to controlling operating costs.

Along with controlling costs, it is important to secure information delivery. Too often the **weakest link** in the protection and control of sensitive data is the **path to the printer**. Another problem is the necessity of allowing printed documents to sit in a printer's output-tray until someone can collect them. Capella Technologies has solutions that match the various levels of security required by businesses.

HP's multifunction products combine high performance, high volume, hassle-free network printing with the ability to add copying and digital sending functionality seamlessly into one printing and imaging system. They distribute and print documents efficiently and effectively without sacrificing valuable office space.

Nonetheless, hardcopy paper printouts are susceptible to interception in a shared environment. And data stored in a printer queue can also be accessible to anyone in a network with a minimum of technical know-how.

SecureJet™ 4.0 protects and encrypts print jobs from the application to the controlled delivery of the printed page. SecureJet 4.0 utilizes strong DES (data encryption standard) encryption technology to help deter possible tampering of print jobs.

## Controlling copies with SecureJet™ 4.0

Photocopying is one of the most important capabilities offered by HP MFPs. Controlling photocopier usage is essential in controlling costs. The SecureJet™ 4.0 Printing Solution offers ultimate security that protects MFPs against unauthorized copier usage and tracks all copies made by users.

With SecureJet™, organizations can control MFP copying usage and accurately charge for that usage. Not only does the SecureJet solution make it possible to control photocopying costs, it enables an organization to allocate those costs effectively and fairly.

SecureJet™ accurately logs who makes copies, from what department, when, how many pages, duplex or simplex, and on what paper format. It is even possible to enter a billing code at the copy time to allocate the copy cost to a project or a client.

## Photocopy information tracking

A SecureJet™ product must be installed on each and every MFP, for which the access to photocopying must be secured and tracked. When the Print Jobs tracking feature is activated by the administrator, SecureJet logs the following information:

- MFP unit name
- User network login
- Department Name
- Copy date and time
- Number of document copies
- Number of pages per copy
- Paper size
- Paper media
- Duplex pages
- Simplex pages
- Optional billing code

Note: SecureJet™ does not track the content of the documents. Confidentiality of the content is maintained.

### How SecureJet™ works with photocopies

An HP LaserJet MFP equipped with SecureJet™ works as follows:

- A user inserts a document into the MFP page feeder or places it on the copier glass.
- The user identifies him/herself :  
With SecureJet™ /PIN, the user identifies him/herself using a 4-to-9 Digit code.  
With SecureJet™ /SmartCard, the user inserts his/her SmartCard and types his/her PIN code associated with the card
- The system verifies the PIN or the SmartCard validity, and then authorizes the copy process.
- The copying process takes place and SecureJet™ logs data about the user's name & department, the date & time and the copied document's physical structure on the MFP hard drive.

### Controlling e-mail and Digital Sending with SecureJet 4.0

HP has incorporated Digital Sending capabilities into its MFPs that print, photocopy, scan and send documents digitally. Digital sending is an innovative technology that allows users to convert paper-based information to digital format and send it quickly and easily via e-mail. A digital sender is as simple to use as a fax machine. But unlike a fax, the image quality and color of the original document are preserved because the document is converted to a PDF file and e-mailed. The near-original quality means that no time is wasted trying to decipher or resend a fax. The recipient can then store, print or forward the file by e-mail.

With the SecureJet™ 4.0 Printing Solution, organizations can control their MFP digital sending usage and accurately charge for that usage.

SecureJet™ 4.0 offers users ultimate security that protects printers/MFPs against unauthorized email and digital sending usage. It logs all digital sending and email usage and tracks all such activity from users of the MFPs.

## Digital Sending & Tracking

A SecureJet™ product must be installed on each and every MFP, for which the access to digital sending must be secured and tracked.

When the administrator activates the digital sending tracking feature, SecureJet™ logs the following information:

- MFP unit name
- User network login
- Department Name
- Digital Sending date and time

Note: SecureJet does not track the content of the documents. Confidentiality of the content is maintained.

## Secure printing with SecureJet™ 4.0

The SecureJet™ 4.0 Printing Solution offers ultimate printing security that protects and encrypts print jobs all the way from the application to the controlled delivery on paper.

Organizations take great care to secure the creation, storage and communication of valuable information. Management also understands the effectiveness, efficiency and return on investment that shared printers mean for the organization.

However, too often the network printing process becomes the weakest link in the data security precautions taken. Consider how accessible information is on its way through the Internet, WAN or network, while it is waiting in the printers out-tray, or if it gets lost among other print jobs.

Without comprehensive protection, control and tracking, proprietary and confidential information is vulnerable to unauthorized copying, reading and manipulation, thereby threatening corporate competitiveness and posing a significant liability risk. Securing documents should not mean having to sacrifice the savings and convenience that network printing means to an organization.

What is needed is a printing solution that looks after information from the moment a user presses the print button, making sure that it ends up only in the right hands

SecureJet™ 4.0 can secure print jobs from sender to recipient, offering a low-cost, laser-quality, fully secured Intranet fax delivery system.

The SecureJet™ printing solution does not require a print server, and is designed for Windows NT/2000, XP workstations, and major Unix clients and SAPR/3 with the HP-UX/Linux Print Spooler.

## How does SecureJet™ Printing work?

The SecureJet printing solution consists of:

- originating computer—a software component;
- destination printer—installation of a DIMM, an FSA (File System Architecture) hard drive, and a SecureJet terminal.

The SecureJet™ process starts with a modified printer driver that secures all designated print jobs before they leave the local computer. A driver plug-in encrypts print jobs at the PC or Unix spooler level.

The print job is stored securely on the printer's hard drive until the authorized person releases it.

## How SecureJet™ works from Windows & Unix

SecureJet™ works with Windows CE/NT/2000/XP, Linux, HP-UX and Sun Solaris operating systems and the SAP R/3 enterprise software platform.

Once the SecureJet™ solution and the appropriate driver have been installed on the Windows and Unix servers, users can begin to deploy state-of-the-art high-security encryption before the job leaves the computer of origin. A user can designate for whom the print job is intended, and whether or not it should be encrypted (for protection while traveling through the network).

SecureJet™ tracks print jobs so that users can indicate a billing code at print time to allocate the printing cost to a project or a client.

The SecureJet™ firmware, on a DIMM in the printer, stores incoming secured print jobs on the printer FSA hard drive. Nothing further happens until the designated recipients reclaim the print jobs by identifying themselves to the SecureJet™ terminal connected to the printer.

Decryption is done only while printing so that even data on the hard drive gets maximum protection.

## How SecureJet™ works from SAP R/3, Unix

Once the SecureJet™ solution and the appropriate driver have been installed on the R/3, HP-UX or Linux servers, a SecureJet™ Device type must be created with a simple modification of the printer settings in the spool management transaction SPAD.

At print time, the job is automatically encrypted and secured for the R/3 session user login (not the Windows or Unix user login) right in the HP-UX or Linux spooler.

The SecureJet™ firmware, on a DIMM in the printer, stores incoming R/3 secured print jobs on the printer FSA hard drive. Nothing further happens until the designated recipient reclaims the print jobs by identifying himself/herself to the printer SecureJet™ terminal. Decryption is done only while printing, so that even data on the hard drive gets the maximum protection.

## Secure stored document delivery with SecureJet™ 4.0

SecureJet™ accurately logs who uses the stored Jobs Release function, from what department, when, how many pages, duplex or simplex, and on what paper format. It is even possible to enter a billing code at release time to correctly allocate costs to a project or a client.

## How to retrieve SecureJet™ information from the MFP

All information gathered by SecureJet™ is optionally stored on the MFP hard drive. This information can be retrieved using the MFPTool Software provided with SecureJet for HP LaserJet 8000MFP, 8100MFP and 8150MFP. On 9000MFP, a Web page in the printer provides all management functionalities. The information can also be automatically processed by a separate Corporate Cost Accounting Software package such as MegaTrack™.

MegaTrack™ consolidates print and copy information corporate-wide and provides sophisticated e-mail and Web-based reporting.

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## Other Advantages of the SecureJet™ 4.0 Printing Solution

- Requires no modification to the existing network.
- Improves security against hacking—SmartCards offer important advantages over keypads and access codes because they cannot be “observed” or copied like a PIN code, and they secure the DES encryption of the print jobs.
- Enables transmission of secured documents to remote printers that are also equipped with SecureJet™.
- Transforms an intranet into a high quality secured fax system with protected delivery to addressees.
- Maximizes investment efficiency—the printer continues to function as normal for output of messages and documents that have not been secured.
- Provides printing flexibility—the SecureJet™ printing solution does not interfere with any other aspect of the printer's functionality, such as fonts or languages. SecureJet™ works with PCL5, PCL6, PCL-XL and Postscript drivers, and with other printers equipped with hard drives.

Availability:

SecureJet™ is currently available for the following printer models:

- With secure printing only : hp LaserJet 4050, 4100, 4550, 8000 (FW 4.48 and up), 8100, 8150 and 9000
- With secure printing and copying only : HP LaserJet 8000 (FW 4.48 and up), 8100 and 8150 in MFP configuration with the Digital Copy 320 and 240 scanners.
- With secure printing, copying, release and digital sending : hp LaserJet 9000mfp

Printers must be equipped with a FSA hard disk and a JetDirect LAN card. The printer must have one DIMM slot available for this solution.

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