Ubiquitech secure print management

UBIQUITECH
Tomorrow's print solutions today

Print security & cost savings

Multivendor solutions:

- **HP**
- **Ricoh**
- **Lexmark**
- **Xerox**
- **Konica/Minolta**
- **Samsung**
- **Other**

Secure print
Get confidential print
– and control who can print and copy

Safety
Secure technology protects your print
- including the option for full encryption

Flexibility
Users become more flexible with the ability to print everywhere in the organization

Cost savings
Control of print and copy saves money

How to manage your print and copy?

Ubiquitech Print Management Solution gives your Company a series of benefits:

- Follow U Print – your print will follow you to the printer of your choice
- Secure printing – compliance, regulations and company policies
- Rules for print – correct use of color, duplex and large print jobs
- Savings on paper, toner
- Savings on the total numbers of printers – no need for personal printers
- Statistics - business intelligence – who is printing and copying what, when and where?
- Easy handling of users and print queues

Products

EASY – Small and Medium customer

EASY is a server-based out of the box print management solution for Small and Medium business.

VDMS - Large and Enterprise customer

VDMS is a server-based solution for large business- and Enterprise customers - providing a highly scalable cluster-enabled print management solution including possibilities for cloud printing, fail over solution, load balancing etc.

HSPM – Enterprise customer

HSPM (High Volume Secure Print Management) solution - built for the highest level of performance, stability, scalability and availability. By placing the solution on Enterprise Linux server solution will inherit all the mainframe advantages. Further, all printing is now orchestrated centrally by the Print Software and hereby-stabilizing printing and enabling the possibility to overview, the entire company's printing as a whole.
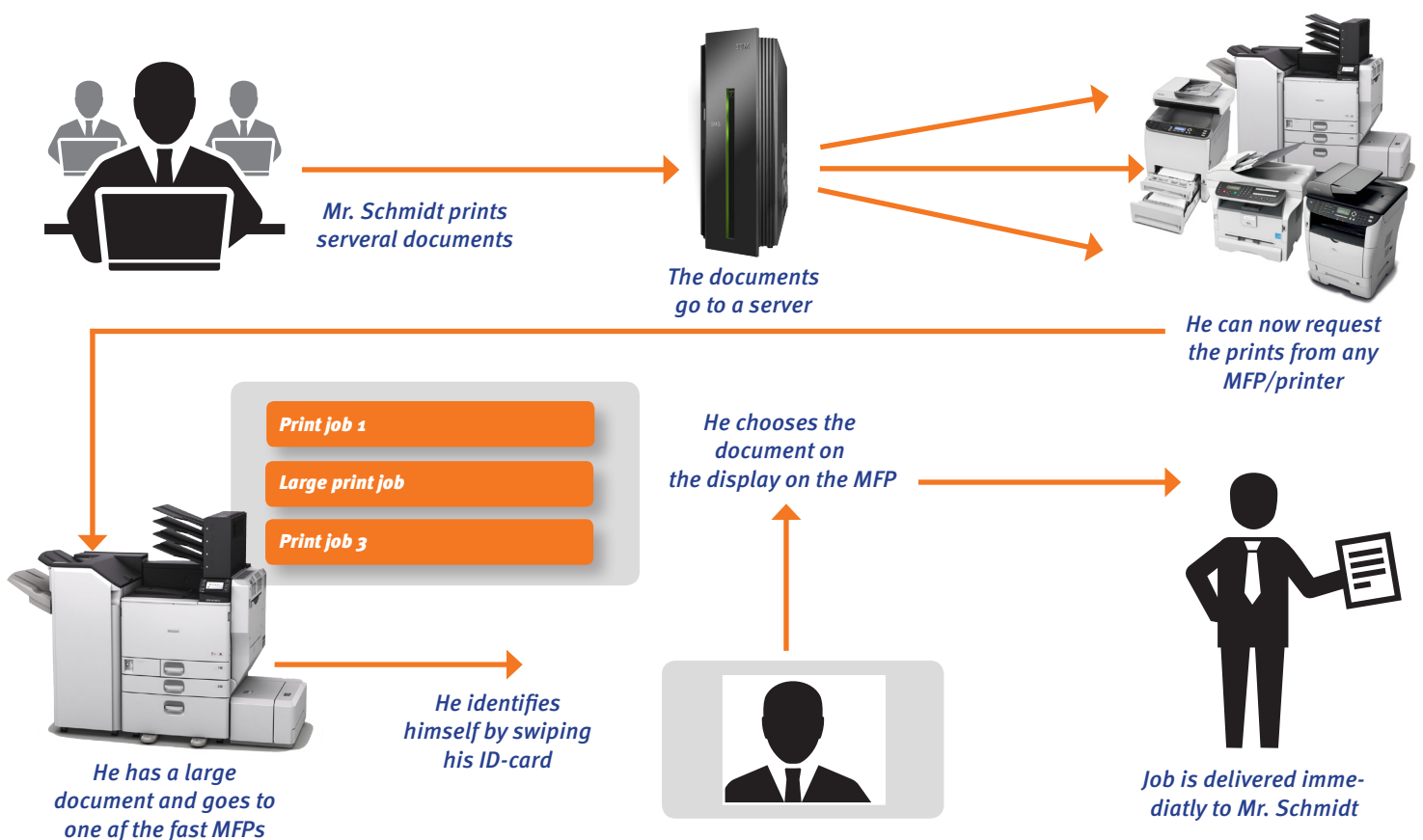
Global Print Solution – add on to all solutions

Global Print is a fully integrated option for the Ubiquitech Print Management solutions.

Global Print is a mobile printing option that allows users to print from any portable or mobile device in addition to publicly available computers. Your print job stays within the Ubiquitech secure print management solution –until you release the job on your printer of choice.

How does it work?

1. When users print, the print job is sent to the Ubiquitech server. No installation or print drivers needed on the user PC.
2. Users can now choose any printer (MFP) to ID themselves (with e.g. PIN code on the MFP's display or with an ID card) and the job is printed, when the user is present to collect the print. If your usual printer is down – or unsuitable for the specific job – just go to another printer.
3. Each job is accounted on the Ubiquitech server, so you have complete statistics for all print and copy activity. This can be used to control your prints – and even invoice clients or projects.

Mr. Schmidt prints serveral documents

The documents go to a server

He can now request the prints from any MFP/printer

Print job 1

Large print job

Print job 3

He chooses the document on the display on the MFP

He identifies himself by swiping his ID-card

He has a large document and goes to one af the fast MFPs

Job is delivered imme- diatly to Mr. Schmidt

Main benefits

Secure print management gives you:
- Cost savings by controlling your activity
- Reduced consumables and support costs by organizing a more effect fleet of printers
- Confidential print
- Higher security for your system

The Ubiquitech solution includes in total:
- Pull and Push printing
- Tracking and reporting
- Rules based printing
- LDAP Integration
- SSL encryption
- Customized solutions
- Fail over
- Cloud

Accounting of your print and copy

The first step in taking control over your print costs is to get a correct picture of what your print /copy activity is. With the job accounting you get this picture. This alone leads to increased awareness about printing only what is needed. And it helps you to plan and focus your printer fleet.

Authentication saves prints

As the user gets an overview of print jobs on the display, there is the opportunity to delete duplicate print jobs - or jobs not needed after all.

Get paid for prints

As all print jobs are tracked and registered, you can use the accounting as a basis for charging clients or projects (lawyers, professionals etc.)
Universities, schools or libraries can get a payment solution, where the user can purchase rights to print with credit cards, PayPal or other payment methods.

Fewer and better printers needed

Because the system secures confidentiality and you can print from any printer, you only need fewer, more cost-effective printers. These will typically also have more and better features than the smaller, decentralized printers.

Easier implementation and support

Easy implementation keeps total project costs down. There is no need for any installation on user's PCs in standard solutions, so the printers only need to be setup on the server. The embedded clients on the MFPs can be distributed via the network. The server software itself can be installed in minutes.

Confidential print

Secure pull printing

With pull printing the printed documents are delivered directly in the hands of the right person, who first performs authentication with, e.g. an ID card or PIN code.

Authentication of users

The users can be authenticated using an existing user-database, e.g. LDAP, so there is no need to run special databases for this purpose. This can be used to give certain groups or individual specific rights or limits for printing. It can also be used to enforce print policies or rules. These rights can also be configured to allow an assistant to pick up prints for you. But it is always defined who can pick up which documents!

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3 different methods

You can get print management benefits via 3 different types of setups - depending on your situation, budget and needs.

1. Push printing with job accounting

This is a simple, low cost solution, which offers tracking of all print activities. All print jobs are directed to the server and printed directly without authentication by the user at the MFP. It helps you control print costs with statistics on print activity.

Print drivers are installed once on the server and are not needed on the PCs. This saves resources to installation and support. With this solution there is no need for embedded clients, card readers or terminals on the printers. This can be used on any networked printer; so it can also be used for old printers as part of a larger system.

2. Pull printing with ID cards

The second method is pull printing using your existing ID card to authenticate users and release prints. You get confidential print, as documents are not printed out until the user swipes the card at the card reader. Authentication of users also provides detailed tracking (users, groups, departments etc.). This can be done with any networked printer.

3. Pull printing with clients on MFPs

With full pull printing with the user interface on the MFP's screen you a get full high-end secure print management solution.
You get full reporting of tracked activity, confidential printing, all the benefits of pull printing and our other options. At the same time it is still very easy to install and support - with no installation (not even print drivers) on the user PCs in typical installations.
All 3 solutions are based on the same technology. They are just examples of how the elements in the system can be combined in different ways depending on your situation and needs.

When security matters!

With the secure print management, you get several unique 'levels' of security. You can use this overview as a checklist for your considerations concerning the security for printing in your organization.
What is the cost of poor security?
Is it worth avoiding?

1. Secure pull printing

With pull printing the printed documents are delivered directly in the hands of the right person, who first performs authentication with, e.g. an ID card or PIN code.

2. Secure architecture

The use of a unique open platform core of the print management application gives the highest security. Many applications for health care, defense, public administration use open platform applications to get high data security.
Our Windows version also uses this core, but the print queues, etc. are handled in Windows. In the open platform the whole process is handled on a secure, virtual or dedicated server.

3. No data stored on hardware

In the open platform version, all processes and stored print jobs are on the server. So no information can be disclosed via any hardware, whether it is in operation or discarded.

4. Encryption

SSL encryption ensures against anybody intercepting confidential information. There is an option for encryption all the way from the PC to the MFP.

5. Special procedures

Even with these security features, some organization want more security - e.g. in defense, finance or health care. The highly flexible open platform architecture makes it much easier to customize special procedures to fit special requirements. For customizations, clusters, Failover servers and cloud printing, please use the VDMS or HSPM software version.

Full encryption

Sensitive information needs full security and confidentiality. Users in military, intelligence, police, health care, finance etc. may need Full encryption to be in compliance with rules and regulations - even when information is printed.
Ubiquitech solution can be supplied with full encryption of the print jobs – all the way from the user's PC via the server to the MFP with an embedded client. This gives the highest security offered on the market.

Open Platform

You can choose between a Windows version and an Open Platform version - depending on your needs and preferences.

Access methods

IIf you use 'pull printing' (Secure print) where the users authenticate themselves to release the print, you can choose different methods for that. It depends on your hardware and preferences.

Embedded clients: Ubiquitech software on the MFP (multifunctional printer) embedded in the printer display. You identify yourself with a PIN code or user name/password. This provides access to see print jobs and delete or release them. You can do that from any MFP in the solution: so if one printer is down, you can go to another to release the job without printing again.

Hardware terminals:

If your device does not have a display - or otherwise is not able to run the embedded client - you can attach a display to the printer, and use that as the user interface.

ID cards:

The third option is to use an ID card to authenticate users and release all print jobs. This is the fastest way of authentication for the user. It can also be used in combination with the embedded client shown on the screen.

Many types of ID cards can be used. Often organizations implement their print management with a card already in use - e.g. for access to building or other systems. The secure print management system can even adapt to cards customized to your company. If you have networked printers without USB connection for a card reader, you can use an IP card reader.

Features and options

You can select a number of features and options in order to configure your own secure print management solution to fit your needs.

Tracking and reporting: This is the central option that registers all print, copy and scan activities. It gives you control of your print costs via customizable reports. It is also the basis for setting up limits, rules - and also the billing feature and direct payment option. The tracking and reporting features are enabled no matter if you use push printing or pull printing (see below).

Pull printing: If this method is used, the user just presses 'print', goes to any printer and authenticates themselves. Here they can decide to delete or release print outs of documents. With the identification of the users during print, it is possible to track print activity per user or groups in the statistics.

Push printing: With push printing the user's PC just sends the print job to the server, where it is registered and redirected with the right driver to the relevant printer. Documents are not released by the user at the printer, but are printed directly.

LDAP Integration: The print management solution can handle users in its own database: but when users are already registered and administrated in an active directory like LDAP, it is easier to just integrate with this user database.

SSL encryption: The encryption secures the traffic and storage of print jobs and user data. Also it should be noted, that the print jobs are not at any stage stored directly on hardware devices, which also helps to secure the data.

Print rules: With this option you can configre rules to make the system enforce certain print policies - such as printing emails in b/w or forced duplex. You can setup rules to improve your print service and/or save costs.

Client Billing: You can use the tracking of print jobs to register billable prints so you can invoice your clients. When printing for a client or project you just indicate 'client code' and optional matter code and the job is counted as a job for that client. After a time period you get a full account of activity for that client - and can use that to invoice the client or project.

Payment solution: Another way of getting your costs covered is by letting the users 'buy credits' to pay for print and copy. The users can access the payment system directly and pay with credit card, payment card, PayPal, etc. This should be integrated with a financial service in your country.

Print Monitor: Software installed on users' PCs, if special actions are needed before sending the print jobs from the PC. It can be used to enable tracking of local USB printers; handle multiple users on one PC; enter client and matter codes from a PC; or (for the VDMS and HSPM versions) use failover servers and load balancing. Print Monitor also registers local prints.

MultiFacility: This is a special facility mode designed for situations where many independent companies or persons should share a larger print management system. Ubiquitech makes it much easier to set up an integrated system - and get automatic reports as a basis for invoicing according to actual use.

Global Print: If you need mobility and would like to print from mobile devices like smartphones, tablets, iPad, iPhone, laptop etc. or even print from your home offices - our Global print solution work as a fully integrated module you can buy as ad on to the Ubiquitech EASY solution. Ask for separate product sheet.

1. Ubiquitech Servers with Failover Option

This solution setup ensures continued uninterrupted service and backup of print jobs if a server fails. The print jobs are sent from the user's PC by the Print Monitor software installed on the users PC. This ensures that the print jobs are executed by the backup server immediately for the user if the primary server fails. The backup server automatically takes over and the printers / MFP's are automatically switched to the backup server. The switch will be seamless and unnoticeable for the user.

2. Ubiquitech Cloud Printing

Ubiquitech Cloud Printing offers printing to a private Cloud with secure access from all locations and mobile units in the organization or company.

The users can request their print jobs for release on any printer / MFP at any given location in the organization. The solution is designed to generate minimal network traffic. The print jobs are only being sent between the locations when they are released from another

location than where they were initiated. All users and information of print jobs initiated are available throughout the Cloud for all locations and connected printers / MFP's.

The Ubiquitech Cloud is a secure and convenient way of improving scalability and mobility.

3. Customize your solution

It is possible to combine the services in different combinationes according desire from the specific customer.