

Wireless, Secure, Seamless, Printer Access-Control Solution

Sentinel is a cloud printing solution for organizations, providing web-based administration, simple deployment, and charging by department for actual printer use. Users access their own print jobs on demand, pulling print jobs via mobile devices, easily scanning to folder or email, forwarding emails and attachments directly to print, and picking up their secure printouts only upon authentication.

Your company benefits from reduced printing costs, tighter and simplified management, and users who are confident that their printouts remain confidential.



Secure Printing



Cost Reduction



Resource Management



Mobile Printing



Web Based Management



Features

Pull Printing for the End User

Send one or more documents to print.

When you are ready to retrieve the printouts, identify yourself at a Sentinel printer by typing a PIN code on the printer or swiping a magnetic or RFID card. Once the Sentinel server recognizes you it will offer you all the print jobs waiting for you. Select a job to print, delete, view, hold, transfer to another printer, etc. The instruction is sent to the server for action. No one but you sees your documents.

RETRIEVE YOUR PRINT JOBS WHEREVER YOU ARE

Print Anywhere

Sentinel allows you to retrieve a print job at your current location, even when you are not in your usual office.

You might be in a conference room, on another floor, or visiting another site belonging to your organization. When you are ready to pull a document, use your mobile device or RFID-enabled or magnetic corporate tags to access the Sentinel system. The Sentinel server identifies your location and prints on the spot.



Mobile Print

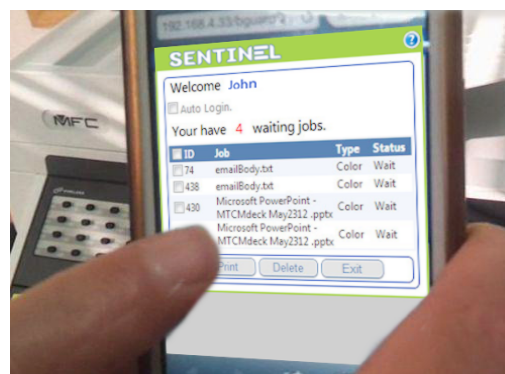
Sentinel makes it possible to 'pull' print jobs wirelessly from a network printer using a mobile device (such as a smartphone or iPod) and a QR code or NFC tag.

By adding a QR code or NFC sticker to the printer, information which identifies the printer and/or the Sentinel pull print server is retrieved. Your mobile device reads this information, and, using a QR code or NFC reader installed on the mobile enables a web application to access the pull print server. The server retrieves the printer ID from the mobile device which was accessed.

Upon recognition of your mobile device's ID the server retrieves your waiting print jobs. The user can select any job from the list to print and the job will be sent to the same printer read by the QR code.



QR code attached to a printer, viewed on a mobile device

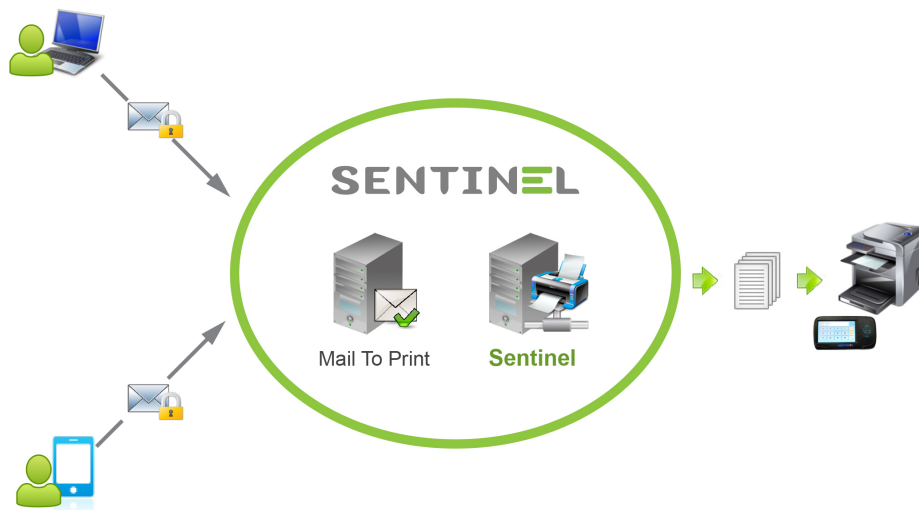


User interface as seen on a smartphone

LETS YOU PRINT YOUR EMAILS AND ATTACHMENTS - DIRECTLY

Mail To Print

Whether you are a recognized user or a guest, you can forward an email message to the Sentinel system or directly to a printer, without connecting to the organization's LAN. The system will send you an email informing you that your email is ready to be picked up. If you are a guest you will receive a code which will enable you to pull the printout from any printer while employees can simply swipe their ID card.



When you access the printer, you can select which attached documents and images you wish to print. Many document formats are possible, including DOC, XLS, HTML, PDF, TXT, PPT, JPG, TIFF, GIF, and BMP – even if you don’t personally have the associated software installed.

SCAN DIRECTLY TO YOUR EMAIL

Scan To Me

Sentinel allows you to scan a document at a printer/scanner and send the generated document as a file, automatically, to your email without having to type or select the email address from a list. There’s no longer any need to manage lists of mail within the printer, or connect the printer to the active directory.

TRACK AND MANAGE YOUR COPIER USAGE

Copy Tracking

Where machines are multi-functional and the copier has a foreign interface, the system can control and manage copying usage. The user cannot use the copier until he or she has been identified by the Sentinel controller. Upon identification, the controller will enable the device to copy and report to the server the number of copies which have been made, including whether color, black and white, duplex or A3 copying has been generated.

Advantages for Administrators

Keep Print Jobs Confidential

Sentinel provides you with secure access to your corporation's printers and ensures that your organization's sensitive documents are not picked up by unauthorized people. Whether copying, printing, or scanning, users must first identify themselves using their single sign-on corporate tag, Sentinel card, or a PIN code. In this way restricted documents cannot be viewed by anyone other than the person who sent them to print.

Save Money and Resources

Sentinel provides you with a real opportunity to contribute to corporate greening.

Users know their printouts are secure So at one stroke you eliminate the need for individual and local printers, relying instead on department printers which work more efficiently.

Printer resources are well managed Thereby reducing the quantity of wasted paper your organization creates.

Systems can be configured So that uncollected printouts are deleted automatically after a predefined time has elapsed.



As a result of implementing Sentinel your organization will require fewer printers, and use less paper and ink – as well as getting you cost-savings on electricity.



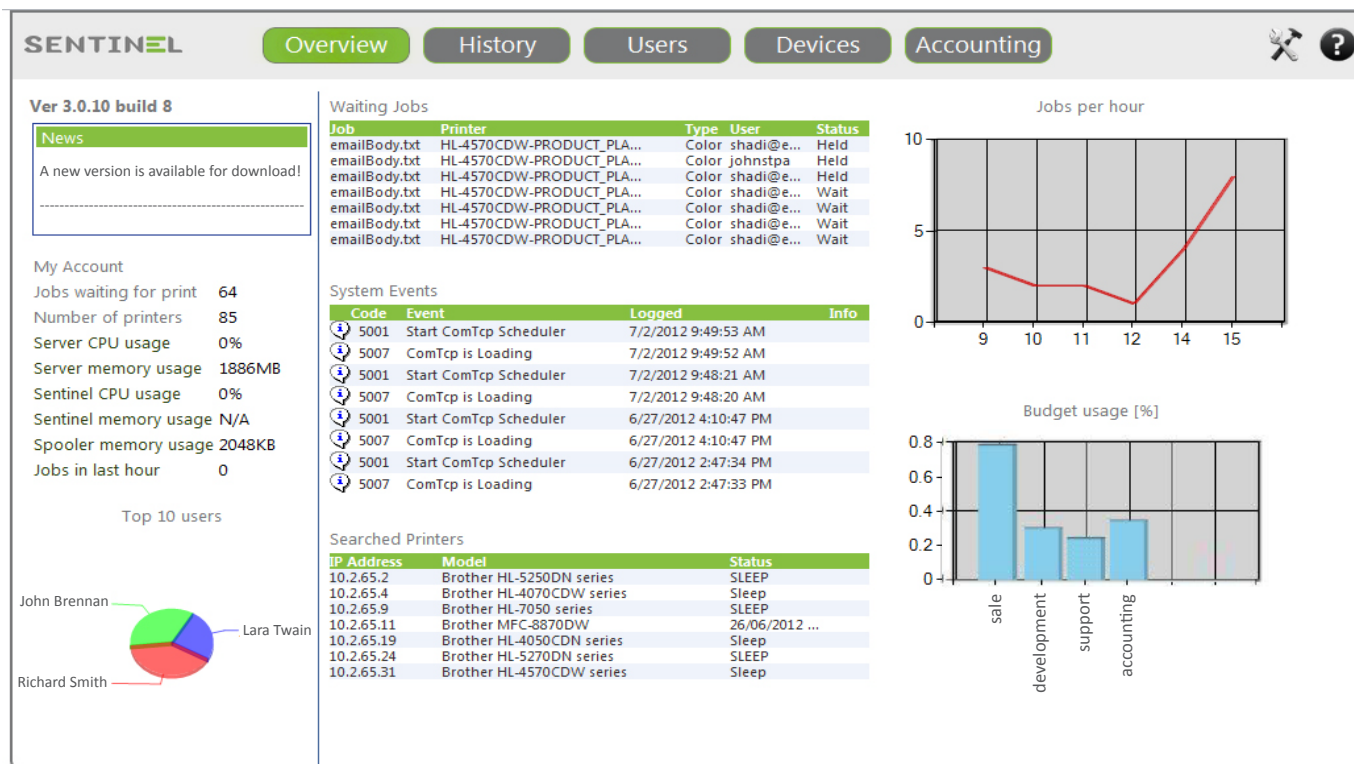
Centralize via Web Management

Manage your printer network by tracking and controlling printer use. Receive email notifications in real-time about exceptions and problems.

Generate built-in reports filtered by printer, user, quantity, etc.

Assign users to departments and then track actual printer use by department. Allocate print quotas per user. Bill according to the type of printing: page size, color/mono, and duplex/simplex.

A built in Report Designer enables you to add any new report required by the system, including access to and integration with other databases within the organization.



Main screen of the Sentinel management interface

Simplicity Itself for End Users

Virtual Printer Support

Pull printing allows users to send a command to the Sentinel server, but the job is not actually released until they arrive to collect it from any selected printer. One of the installation options is that each end user has the same single printer driver installed which means

- There's no longer any need to invest significant time and resources in configuring several different printer drivers at each workstation.
- End users no longer need to hunt for their printouts or print multiple copies in despair when they can't find their jobs.
- End users control their own print jobs via a simple browser interface. If they so desire, they can delete, release, view, hold, and transfer to other printers, without needing to physically approach the printer.

Sentinel Supports LUA Scripting: the system is language enabled. Allows customization according to customer requirements, and additional feature without any modification.

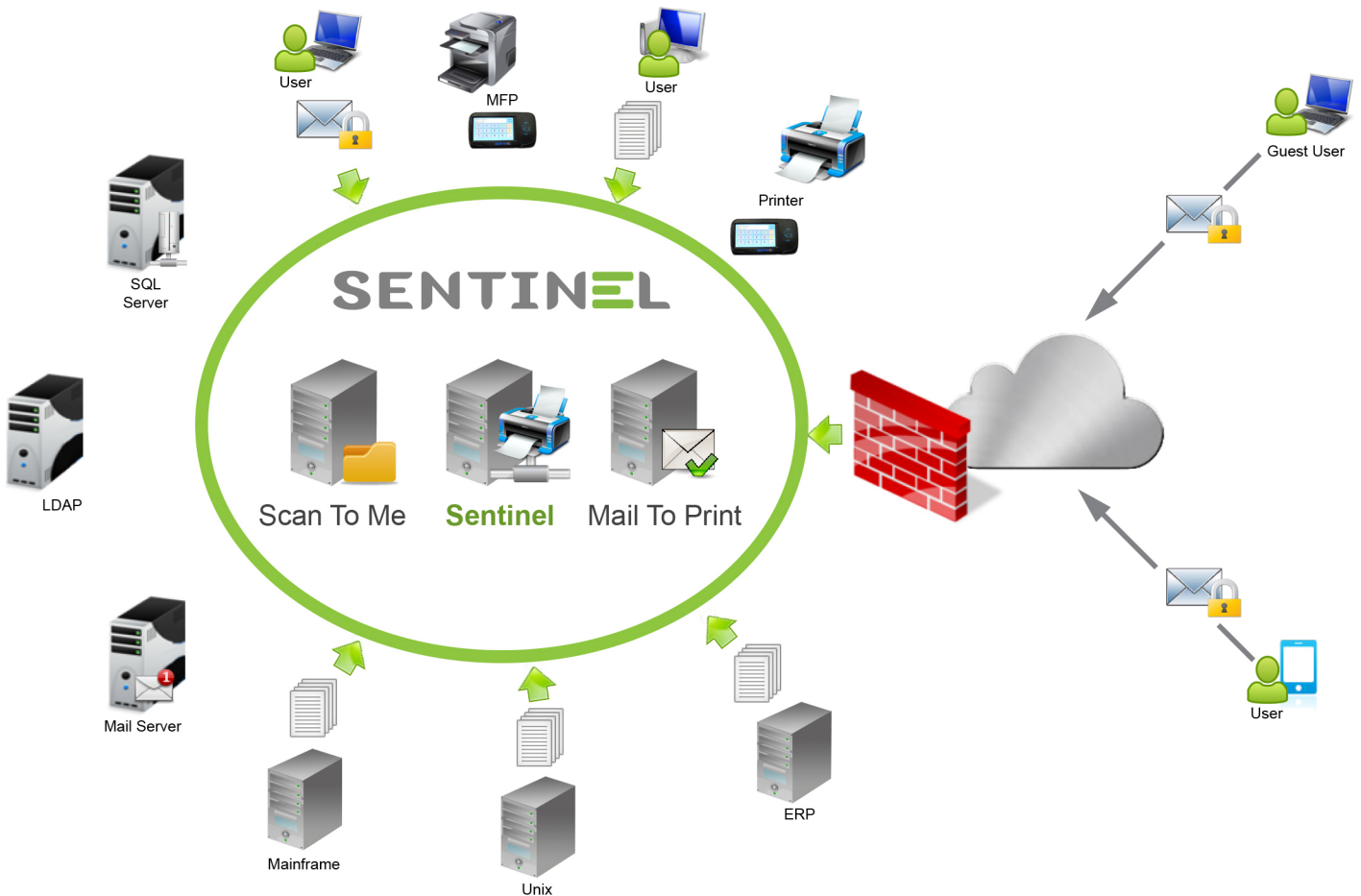
The System allows for Multi-Site Installation: the Sentinel server can be installed at different locations for each site print server. All Sentinel servers can be connected to the same database, and managed from one Web based System.

Sentinel accommodates for Failover and Load Balance: The Sentinel system can be installed on more than one server for load balance and Failover. The device will distribute tasks between the Sentinel servers – and if one of the servers is down the system will automatically begin to use the alternative server.

Network Architecture

This figure illustrates the Sentinel components in a typical network and their interaction with the internal and external entities within the organization.

Sentinel integrates with the existing SQL server, LDAP, and mail server.



About e-Paper

e-Paper develops, produces, and markets innovative solutions integrating software with electronic devices for connecting peripheral units—in particular, printing units—to computing systems. e Paper's products combine sophisticated hardware and software elements, which result in functional, low cost, easy to use, long-serving products.

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