



Sentinel

Product Description



The Need for Secure Printing

Each day, your organization may be wasting money in the form of paper, toner, and employee time, as print jobs are sent to the wrong printer or lost in piles of output, *causing users to reprint them*. Some sources estimate that this waste may be costing companies as much as 4.5% of their turnover!* Worse, sensitive material may be left unsupervised at a printer, allowing anyone to walk off with it.

Most solutions are costly, limited in features, or too inconvenient for both the users and the system administrator. But now, there is Sentinel...

The Sentinel Solution

Sentinel is a comprehensive printing management and control system that addresses the problems of waste and security. Sentinel provides significant benefits for your organization's printing needs:

Security



- Users see and collect only their own print jobs.
- Printed material is not left unattended.
- The system administrator receives alerts via email and can more effectively monitor the system.

Economy



- Print jobs are not lost or collected by others, reducing wasteful reprinting.
- Print quotas (limits on number of pages printed) can be set for each user as needed.
- Users can be limited to certain printers or copiers.

Management and Control



- The "follow me" feature allows users to transfer print jobs from one printer to another by using the ID card at a different device.
- All printing information is collected in a database, enabling the generation of organization-wide reports.
- The central Web-based server allows users to control their own print jobs, and the system administrator to efficiently manage printing permissions and activity.
- Printers can be limited to certain access hours to make sure that no one is printing outside of working hours.

Environmental Responsibility



- Less printed pages means savings in toner, paper, electricity, and other resources.
- Wasteful personal printers that take up space in individual offices or work areas can be eliminated. Sentinel allows you to use a centralized print center without sacrificing print job security.

* Waste Watch (www.wastewatch.org.uk)

The Sentinel Advantage

Key Features

Sentinel provides a powerful solution for your printing needs. With Sentinel, you can:

- Control printing for individual users or groups by limiting how print jobs can be released (by using an ID card or typing a code at the device controller linked to the printer, or by releasing the job from the Web interface). You can also allow users to determine their own preferred release method (ID card, code, or Web interface).
- Account and control the number of pages each user can print in each printer. This lets you bill accurately according (for example, to charge customers for the exact print usage).
- Define black/white or color page quota for each user and block users that exceed their quota.
- Move print jobs from one printer to another; for example, a user can print to printer A, then use the ID card at the device controller for printer B. The print job shifts automatically to printer B, placing the output in the hands of the authorized user.
- Define printers in which only *specific users* are allowed to print, or printers in which *all users* (or all excluding certain users) can print.
- Allow authorized users to control their own print jobs through the Web interface, including the ability to cancel, pause, and resume print jobs.
- Issue reports based on different parameters, such as the number of pages a certain user printed, the number of pages printed on specific printer, etc.
- Export data to any database application. All print information in the system is logged into a standard database, so the data can be exported to Excel for additional specialized calculation and reports.
- Send real-time warnings and exceptions (for example, an attempted use with an unidentified ID card) to the system administrator by email.
- Display messages to each user on a personal Web page. Messages can inform users when they exceed their page quota, try to print to non-authorized printers, etc.

A Better Solution

Sentinel has several key advantages over other systems:

- Sentinel is an extremely stable system that can work in clustering form, thereby spreading resources between different servers (external SQL server, external file server). As a result, the system is “shock absorbing” even in less-than-perfect network conditions.
- Sentinel’s device controllers contain an internal switch, allowing connection near the printer without the need to add another network outlet.
- Sentinel accepts print jobs from many operating systems, including all standard Window operating systems, Unix, mainframe and midrange (such as AS/400), and more.
- The database can be based on Access or your organization’s SQL server.

- Sentinel is affordably priced, and offers an attractive value for your organization, no matter what size.
- Sentinel can be customized with special options for your system. (Contact your Sentinel vendor for details.)

Streamlined and Low Profile

Sentinel won't clutter up your office with bulky additional equipment. The device controls are small and be placed on a table or shelf, or be wall-mounted to save space. (Contact your Sentinel vendor for a full list of stands and mounting options.)

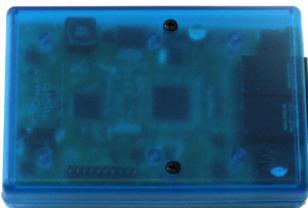
There are three models of device controllers. All support the same system functions, but the touch-screen model provides some additional features. All three models can work together on the same print server.

Button Keypad



- Configured through the DS Manager (external software application)
- Users can access with ID card or code
- For multifunction device, users can select Print or Copy
- When printing, users can select a single queued job
- Jobs can only be deleted through the Web-based interface

Light Version



- No panel or keypad (accepts a card swipe only)
- For print jobs only (no copy control)

Touchscreen

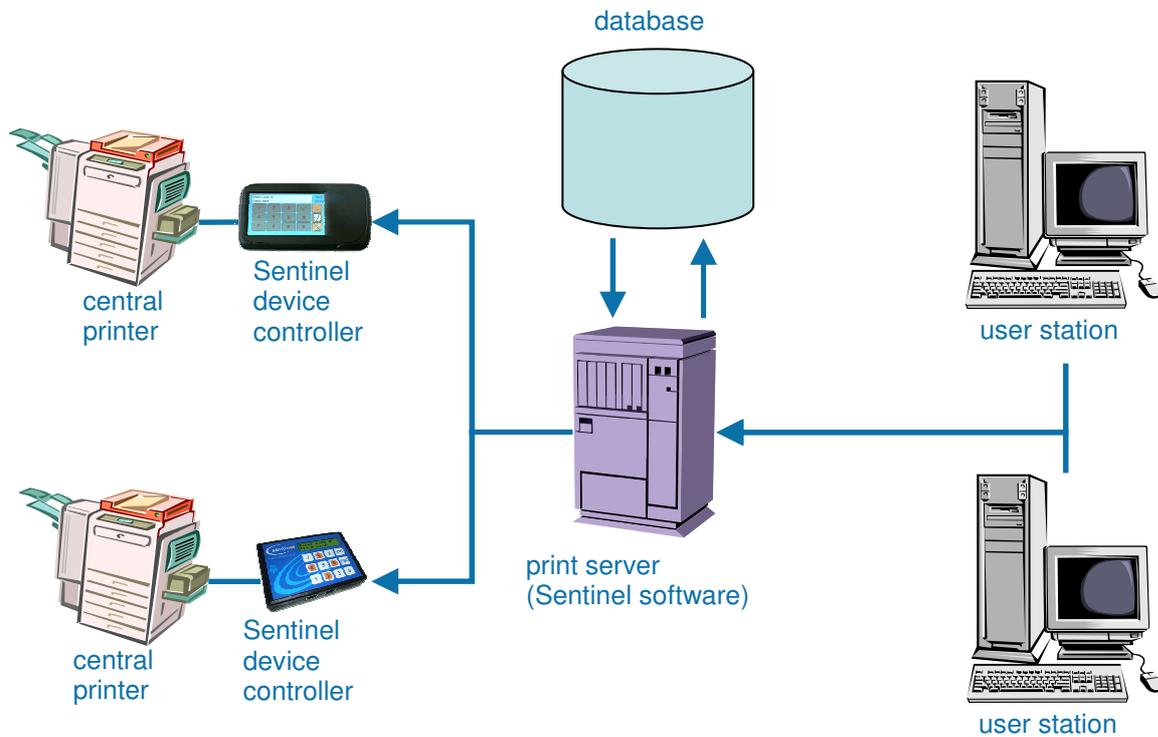


- Configured through the DS Manager or directly through the device controller itself
- Users can access with ID card or code
- For multifunction device, users can select Print or Copy
- When printing, users can select multiple queued jobs
- Jobs can be deleted through the Web-based interface or directly from the device controller
- When copying, users see their username, the device name, the number of copies remaining in their quota, and the number of copies in the current request
- A configurable timeout keeps user information from remaining on the screen (users can reset if more time is needed)

How Does Sentinel Work?

The Sentinel system is composed of the server software, the database (Access or SQL), and a device controller that sits between the server and each physical device (printer, copier, or multifunction device).

The server software is installed on the organization's print server.



On the printer driver in the server, the Print Processor is changed to *Sentinel Print Processor*. When a print job is sent to a printer that was defined in Sentinel, the job is not printed but saved in an internal queue. In addition, the print job, with rich metadata (user name, document name, number of pages, copies, etc.) is logged into the database.

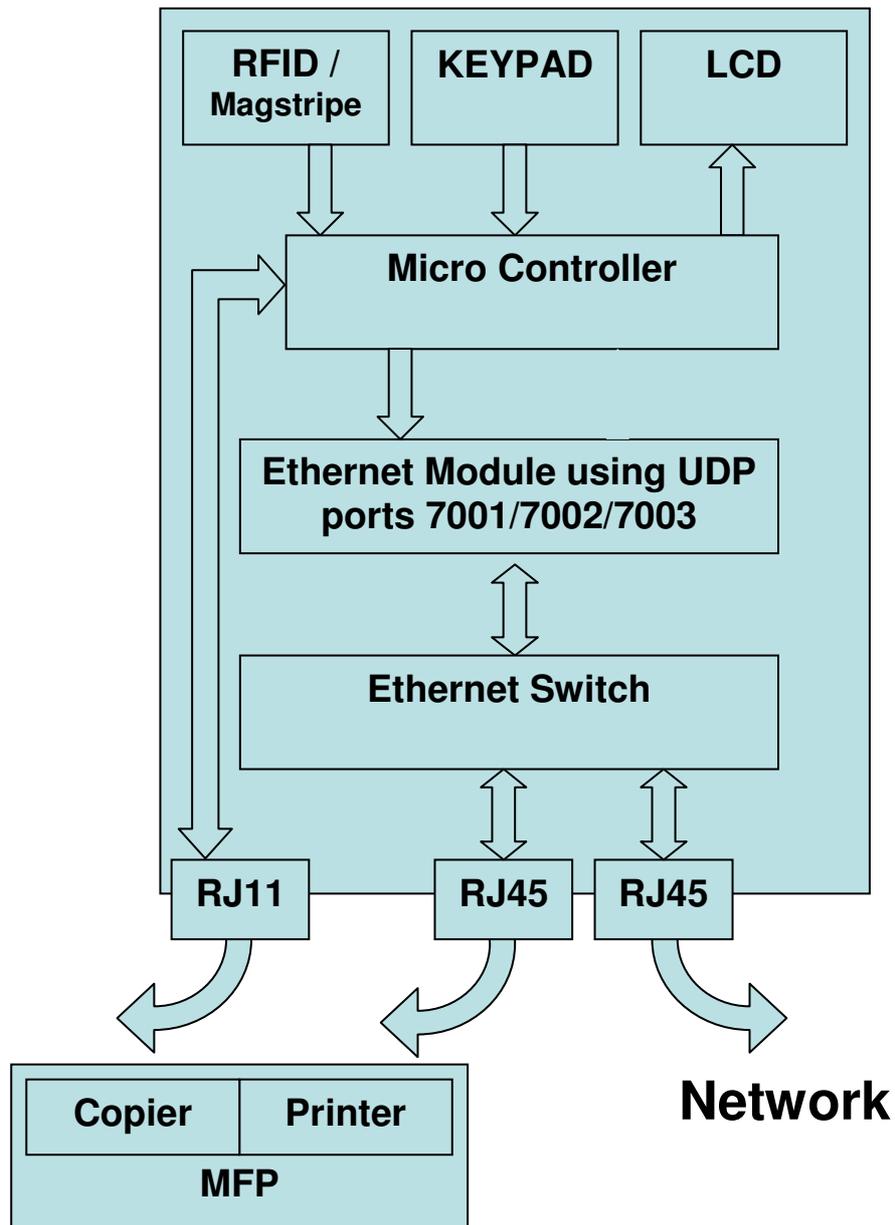
When a user uses an ID card at one of the Sentinel device controllers, the Sentinel server receives the card ID via a UDP message from the device. The server then searches the database for the corresponding user name. After finding the user name, a search is performed to find of this user's print jobs that have not yet been released. Those jobs are then re-spoiled to the printer connected to the device controller at which the ID card was used.

After the printing is performed, all the print job parameters are logged in the database. This data is then available for applicable reports.

Internal Sentinel Device Structure

The connection to the printer can be performed via an internal switch that doesn't interrupt any communication to the printer (sending of print jobs or communication and control protocols). This means that a Sentinel device controller can be near a printer without requiring an additional network outlet.

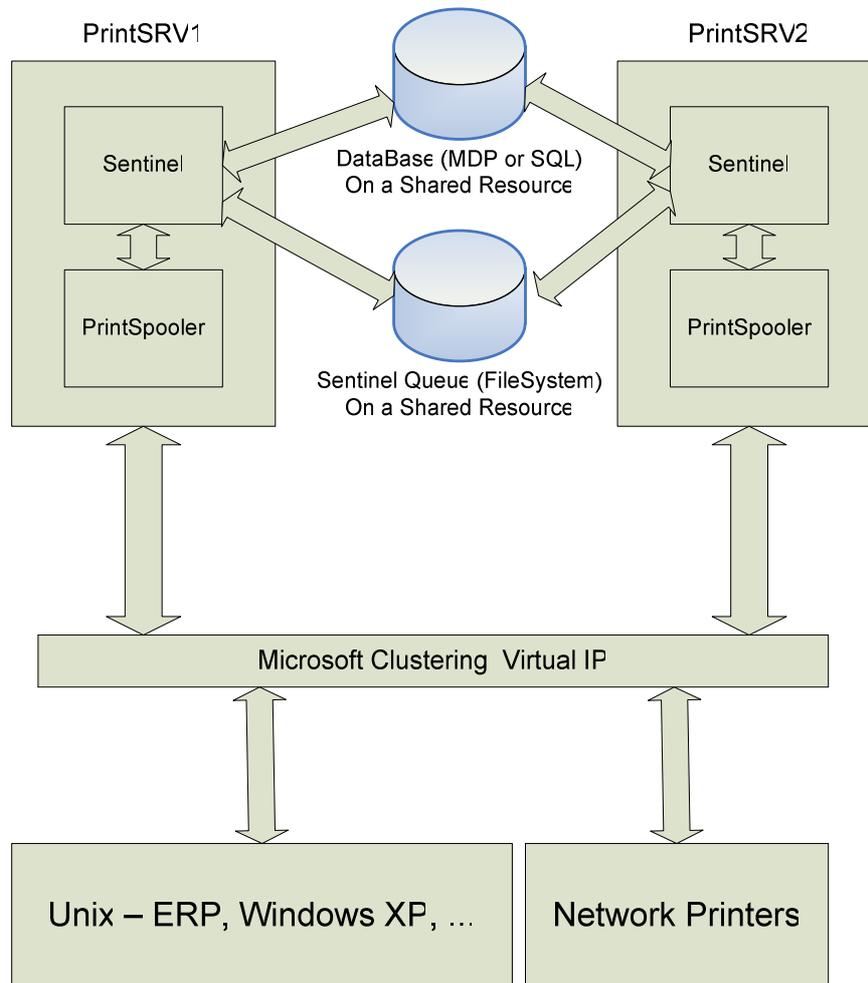
In addition, even companies that don't allow connecting of switches to the network can use Sentinel, because of the logical connection between the Sentinel device and the printer in the print server.



The Sentinel device controller requires a unique fixed IP address, and the default communication protocol to the Sentinel server is UPD via the 7001, 7002, 7003 ports. This means that the printer keeps working with the server in the standard way (with the standard Windows port).

A Unique Load-balancing Solution

One of the unique features of Sentinel is that the system is installed on several print servers, in a Fail Over or Load Balancing form, but that from the user's perspective, it is a single server.



There are two shared resources to the server: the Sentinel database and the Sentinel queue. These two resources can be extracted from within the server and placed on another server in the network, making them a resource which can be approached from any print server.

The database resource can be based on the organization's SQL server, which is secured and backed up regularly. The queue resource is actually a file server in which the print job files are stored until they are released; it can be based on the organization's file server, which is also secured and backed up.

In an emergency situation, Sentinel can automatically be switched back to standard Windows printing by changing all printer drivers' print processors to their original Windows print processors. This causes all print jobs to bypass Sentinel, allowing users to print in the standard way. After resolving the problem, all print processors can be switched back with a single command.

Synchronizing Users and Card IDs

Another powerful feature of Sentinel is its ability to synchronize with existing employee data. In fact, the Sentinel ID card used at device controllers can use any unique identifier, including existing data, such as an employee ID number.

But this ID number must be entered in Sentinel. There are several ways to so:

- **Manually:** type in the user name and card number in the Sentinel interface. This is often the preferred method for small organizations.
- **Automate via Active Directory:** If a field in the organization's Active Directory has been assigned to contain the employee card number, Sentinel can automatically synchronize with the Active Directory and pull the required data into the database. This is particularly convenient for large organizations that already use an employee code.
- **Synchronize with an external card control system:** For organizations that use an electronic employee ID card that gives access to building doors, Sentinel can talk to this external card control system and read the card numbers from it.

Sentinel provides additional flexibility and control of automatic synchronization with two options that can work together or independently:

- **Initiated synchronization** is performed at a fixed time, usually added to the server calendar to occur every night.
- **Automatic synchronization** is performed whenever the system detects a new user. When a new user sends a print job, and the system identifies that this user is not yet listed in the Sentinel database, it approaches the Active Directory or the synchronization interface, and uses it to register this user. This action takes advantage of the "dead time" between the moment the user sends the print job from a workstation and the moment when the user actually goes to the printer and uses an ID card at the device controller.

Sentinel Reports

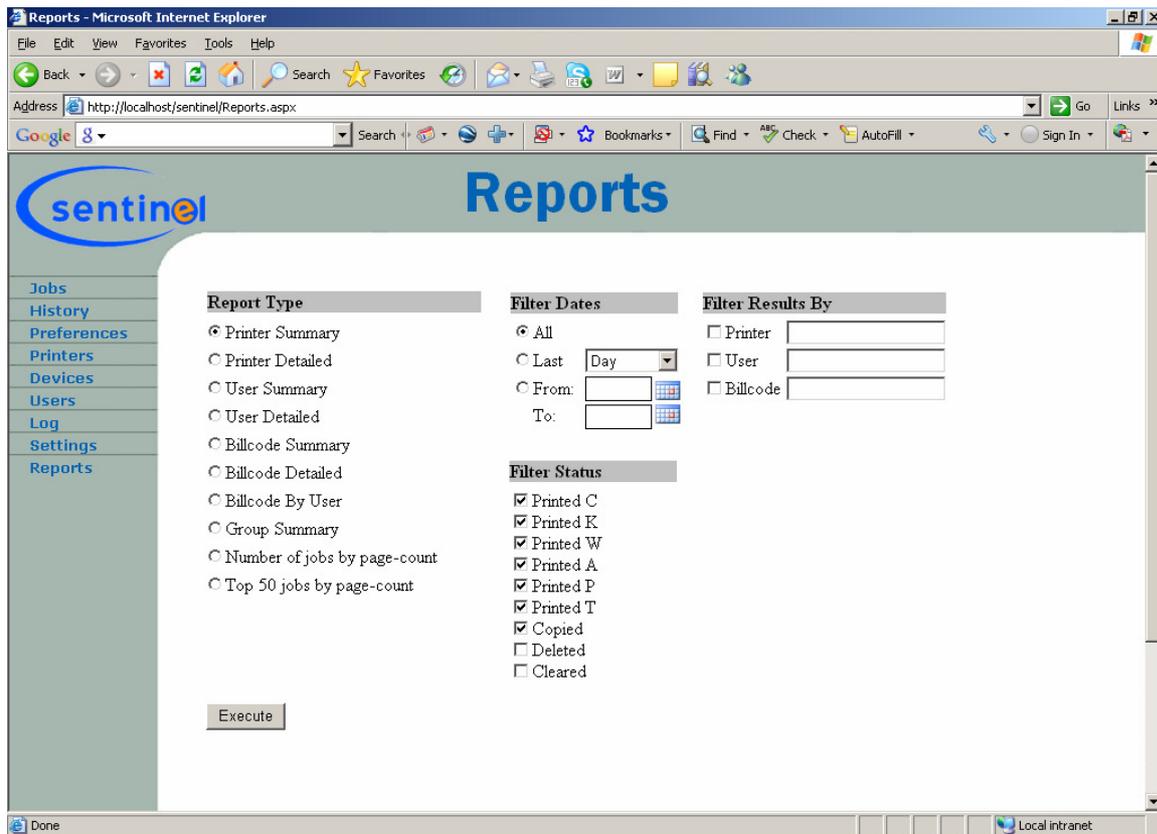
True control comes from being able to analyze print usage. Since all Sentinel print information is stored in an Archive table in the database (Access or SQL-type), it can be used to generate a wide variety of reports.

Additionally, these reports can be exported to Excel, Word, or to PDF format. This allows you to make additional analyses between parameters or view the reports in different formats.

Here are the fields in the Archive table.

Field Name	Field Description
JobID	Unique identifier to the print job.
JobName	The name of the printed document.
SourcePrinter	The printer to which the job was sent.
DestinationPrinter	The printer in which the job was actually printed.
User	The name of the user who released the print job.
OrigUser	The name of the user who originally sent the job (that is, in a situation where one user has a permission to release jobs for another user).
Pages	Number of pages in the document.
PageType	Type of print job.
Size	Size of the print jobs in bytes.
Copies	Number of copies.
Printed	Was the document actually printed?
Spooled	The time in which the job was sent.
Released	The time in which the job was released.
Billcode	The billing code for the customer.
MachineName	The name of the workstation from which the job was sent.
PaperSize	The paper size.
Duplex	Was the job a duplex print?
Color	Was the job a color print?

There are several built-in reports accessed from the Web interface. Each of these reports can be filtered based on time range and other parameters relevant to the report, such as a specific printer or group of users.



For example:

- You can issue a complete printer summary reports and see which printers are the busiest.
- You can issue a user summary report to see which users print the most, and then issue printer summary reports only for those specific users. This way you can see which printers are being used by the high-volume users.
- You can issue a “top 50” jobs report and see which users are responsible for the largest print jobs. You can also see the names of the largest jobs and identify the applications from which they were sent.

Examples of print reports appear on the following pages.

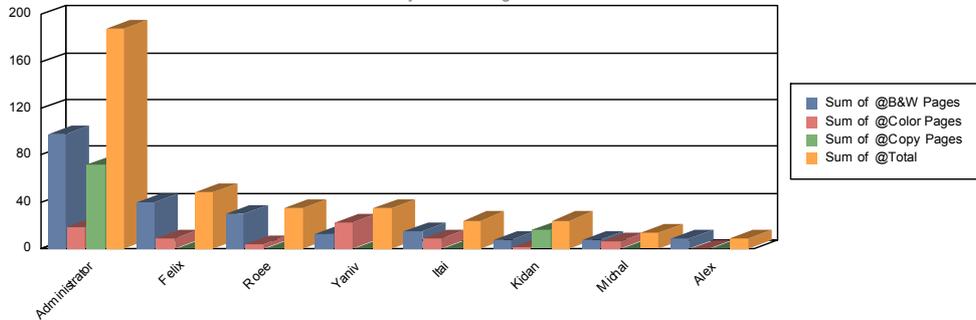
This report shows a high-level summary of activity per user, both in graph form and as a table:

Activity Summary By User



Top 10 Users

By Printed Pages



Activity Summary By User

Administrators						
User	User Description	B/W	Color	Copy	Total	Cost
Administrator		98	18	72	188	13.36
		98	18	72	188	13.36
Sales						
User	User Description	B/W	Color	Copy	Total	Cost
Felix		39	9	0	48	3.30
Michal		7	6	0	13	1.25
Yaniv		12	22	0	34	3.90
		58	37	0	95	8.45
SPS						
User	User Description	B/W	Color	Copy	Total	Cost
Alex		8	0	0	8	0.40
Itai		15	9	0	24	2.10
Kidan		7	1	16	24	1.78
Roebe		30	4	0	34	2.10
		60	14	16	90	6.38
Total:		216	69	88	373	28.19

This is a more detailed report showing activity for each specified printer.

Activity Details By Printer



Activity Details By Printer

- Printer1 (.)								
Date	User	Job Name	Type	BillCode	Status	Printed	Price	Cost
27/01/2009 09:41	Administrator	PDFC-הלבק 12345.pdf	B/W		Printed W	3	0.05	0.15
27/01/2009 09:45	Administrator	PDFC-הלבק 12345.pdf	B/W		Printed W	28	0.05	1.40
27/01/2009 09:45	Administrator	PDFC-הלבק 12345.pdf	B/W		Printed W	23	0.05	1.15
27/01/2009 09:45	Administrator	PDFC-הלבק 12345.pdf	B/W		Printed W	14	0.05	0.70
27/01/2009 09:50	Kidan	http://localhost/sentinel/Default.aspx	B/W		Printed W	4	0.05	0.20
27/01/2009 09:50	Itai	http://localhost/sentinel/Default.aspx	B/W		Printed W	4	0.05	0.20
27/01/2009 09:50	Itai	http://localhost/sentinel/Default.aspx	B/W		Printed W	1	0.05	0.05
27/01/2009 09:50	Itai	http://localhost/sentinel/Default.aspx	B/W		Printed W	6	0.05	0.30
27/01/2009 09:56	Yaniv	http://localhost/sentinel/Users.aspx	B/W		Printed W	1	0.05	0.05
27/01/2009 09:56	Yaniv	http://localhost/sentinel/Users.aspx	B/W		Printed W	2	0.05	0.10
27/01/2009 09:56	Yaniv	http://localhost/sentinel/Users.aspx	B/W		Printed W	6	0.05	0.30
27/01/2009 09:56	Felix	http://localhost/sentinel/Users.aspx	B/W		Printed W	2	0.05	0.10
27/01/2009 09:56	Felix	http://localhost/sentinel/Users.aspx	B/W		Printed W	2	0.05	0.10
27/01/2009 09:56	Felix	http://localhost/sentinel/Users.aspx	B/W		Printed W	4	0.05	0.20
27/01/2009 09:56	Felix	http://localhost/sentinel/Users.aspx	B/W		Printed W	7	0.05	0.35
27/01/2009 09:56	Michal	http://localhost/sentinel/Users.aspx	B/W		Printed W	1	0.05	0.05
27/01/2009 09:56	Roe	http://localhost/sentinel/Users.aspx	B/W		Printed W	4	0.05	0.20
27/01/2009 09:56	Roe	http://localhost/sentinel/Users.aspx	B/W		Printed W	12	0.05	0.60
27/01/2009 09:56	Alex	http://localhost/sentinel/Users.aspx	B/W		Printed W	5	0.05	0.25
27/01/2009 09:56	Alex	http://localhost/sentinel/Users.aspx	B/W		Printed W	2	0.05	0.10
27/01/2009 09:56	Alex	http://localhost/sentinel/Users.aspx	B/W		Printed W	1	0.05	0.05
						132	6.60	

- Printer2 (.)								
Date	User	Job Name	Type	BillCode	Status	Printed	Price	Cost
27/01/2009 09:45	Administrator	PDFC-הלבק 12345.pdf	Color		Printed W	14	0.15	2.10
27/01/2009 09:45	Administrator	PDFC-הלבק 12345.pdf	Color		Printed W	1	0.15	0.15
27/01/2009 09:45	Administrator	PDFC-הלבק 12345.pdf	Color		Printed W	2	0.15	0.30
27/01/2009 09:45	Administrator	PDFC-הלבק 12345.pdf	Color		Printed W	1	0.15	0.15
27/01/2009 09:50	Kidan	http://localhost/sentinel/Default.aspx	Color		Printed W	1	0.15	0.15
27/01/2009 09:50	Itai	http://localhost/sentinel/Default.aspx	Color		Printed W	1	0.15	0.15
27/01/2009 09:50	Itai	http://localhost/sentinel/Default.aspx	Color		Printed W	7	0.15	1.05

2/3/2009

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This is a more detailed report showing activity for each specified user.

Activity Details By User



Activity Details By User

Administrators - Administrator ()								
Date	Printer	Job Name	Type	BillCode	Status	Printed	Price	Cost
27/01/2009 10:02	HP4345	PDFC-Sentinel-Hebrew-2.pdf	B/W		Printed C	2	0.05	0.10
27/01/2009 09:45	Printer2	PDFC-הלבק 12345.pdf	Color		Printed W	1	0.15	0.15
27/01/2009 10:24	HP4345	Copy	Copy		Copied	1	0.08	0.08
27/01/2009 10:22	HP4345	Copy	Copy		Copied	3	0.08	0.24
27/01/2009 10:07	HP LaserJet M27	Microsoft Word - Reports	B/W		Printed A	1	0.05	0.05
27/01/2009 10:07	HP LaserJet M27	Microsoft Word - Reports	B/W		Printed A	1	0.05	0.05
27/01/2009 10:06	HP4345	Microsoft Word - Reports	B/W		Printed C	1	0.05	0.05
27/01/2009 10:22	HP4345	Microsoft Word - Reports	B/W		Printed C	1	0.05	0.05
27/01/2009 10:04	HP LaserJet M27	http://localhost/sentinel/Devices.a	B/W		Printed A	2	0.05	0.10
27/01/2009 09:45	Printer1	PDFC-הלבק 12345.pdf	B/W		Printed W	23	0.05	1.15
27/01/2009 10:00	HP4345	Copy	Copy		Copied	2	0.08	0.16
27/01/2009 12:54	HP4345	Microsoft Word - Reports	B/W		Printed C	1	0.05	0.05
27/01/2009 09:57	HP4345	Copy	Copy		Copied	3	0.08	0.24
27/01/2009 09:41	HP4345	PDFC-תיגבשה 22222.pdf	B/W		Printed W	1	0.05	0.05
27/01/2009 09:45	HP4345	PDFC-הלבק 12345.pdf	B/W		Printed W	2	0.05	0.10
27/01/2009 15:21	HP4345	Copy	Copy		Copied	5	0.08	0.40
27/01/2009 09:32	HP4345	PDFC-תיגבשה 22222.pdf	B/W		Printed C	2	0.05	0.10
27/01/2009 09:32	HP4345	PDFC-תיגבשה 22222.pdf	B/W		Printed C	1	0.05	0.05
27/01/2009 09:41	Printer1	PDFC-הלבק 12345.pdf	B/W		Printed W	3	0.05	0.15
27/01/2009 09:45	Printer2	PDFC-הלבק 12345.pdf	Color		Printed W	14	0.15	2.10
27/01/2009 09:45	Printer1	PDFC-הלבק 12345.pdf	B/W		Printed W	28	0.05	1.40
27/01/2009 10:02	HP4345	Copy	Copy		Copied	2	0.08	0.16
27/01/2009 10:48	HP4345	Microsoft Word - Reports	B/W		Printed C	1	0.05	0.05
27/01/2009 15:21	HP4345	Copy	Copy		Copied	20	0.08	1.60
27/01/2009 14:41	HP4345	Copy	Copy		Copied	22	0.08	1.76
27/01/2009 09:48	HP4345	http://localhost/sentinel/Devices.a	B/W		Printed W	2	0.05	0.10
27/01/2009 14:29	HP4345	Copy	Copy		Copied	10	0.08	0.80
27/01/2009 12:54	HP4345	Copy	Copy		Copied	1	0.08	0.08
27/01/2009 09:52	HP4345	PDFC-Sentinel-Hebrew-2.pdf	B/W		Printed W	2	0.05	0.10
27/01/2009 09:45	Printer1	PDFC-הלבק 12345.pdf	B/W		Printed W	14	0.05	0.70
27/01/2009 09:45	Printer3	PDFC-הלבק 12345.pdf	B/W		Printed W	2	0.05	0.10
27/01/2009 10:26	HP LaserJet M27	Microsoft Word - Reports	B/W		Printed A	1	0.05	0.05
27/01/2009 10:31	HP4345	Copy	Copy		Copied	2	0.08	0.16

2/3/2009

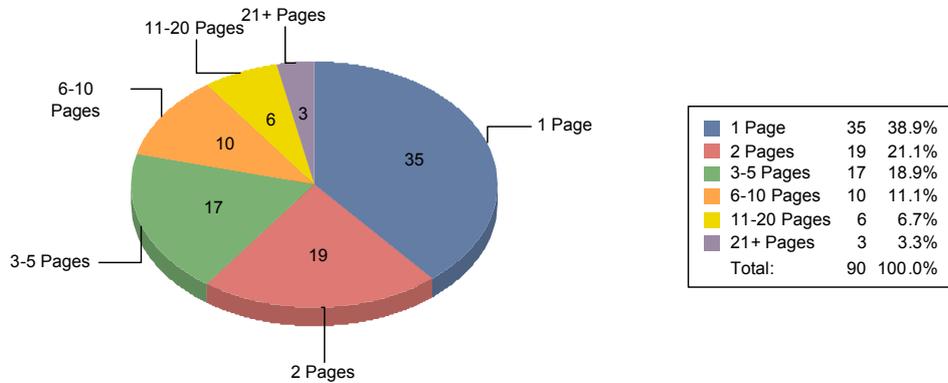
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This report shows the breakdown of print jobs by page number.

Job Count By Number of Pages



Job Count By Number Of Pages



This report shows a summary of print jobs of a specific user, organized by printer.

Activity Details By Printer



Filtered by: User='Kidán';

Activity Details By Printer

Filtered by: User='Kidán';

- Printer1 (.)									
Date	User	Job Name	Type	BillCode	Status	Printed	Price	Cost	
27/01/2009	09:50	Kidán	http://localhost/sentinel/Default.aspx	B/W	Printed W	4	0.05	0.20	
						4		0.20	
- Printer2 (.)									
Date	User	Job Name	Type	BillCode	Status	Printed	Price	Cost	
27/01/2009	09:50	Kidán	http://localhost/sentinel/Default.aspx	Color	Printed W	1	0.15	0.15	
						1		0.15	
- HP4345 (.)									
Date	User	Job Name	Type	BillCode	Status	Printed	Price	Cost	
27/01/2009	14:58	Kidán	Microsoft Word - Reports	B/W	Printed C	1	0.05	0.05	
27/01/2009	12:35	Kidán	Microsoft Word - Reports	B/W	Printed C	1	0.05	0.05	
27/01/2009	10:56	Kidán	Microsoft Word - Reports	B/W	Printed C	1	0.05	0.05	
27/01/2009	12:35	Kidán	Copy	Copy	Copied	1	0.08	0.08	
27/01/2009	12:35	Kidán	Copy	Copy	Copied	1	0.08	0.08	
27/01/2009	12:36	Kidán	Copy	Copy	Copied	4	0.08	0.32	
27/01/2009	14:30	Kidán	Copy	Copy	Copied	10	0.08	0.80	
						19		1.43	
Total:						24		1.78	

This report shows the 50 largest (by page count) jobs.

Top 50 Jobs By Page Count



Top 50 Jobs By Page Count

Date	User	Printer	Job Name	Type	BillCode	Status	Printed	Price	Cost
27/01/2009 09:45	Administra	Printer1	PDFC-ה'לגק 12345.pdf	B/W		Printed W	28	0.05	1.40
27/01/2009 09:45	Administra	Printer1	PDFC-ה'לגק 12345.pdf	B/W		Printed W	23	0.05	1.15
27/01/2009 14:41	Administra	HP4345	Copy	Copy		Copied	22	0.08	1.76
27/01/2009 15:21	Administra	HP4345	Copy	Copy		Copied	20	0.08	1.60
27/01/2009 09:56	Felix	Printer3	http://localhost/sentinel/Users.asp	B/W		Printed W	16	0.05	0.80
27/01/2009 09:45	Administra	Printer1	PDFC-ה'לגק 12345.pdf	B/W		Printed W	14	0.05	0.70
27/01/2009 09:45	Administra	Printer2	PDFC-ה'לגק 12345.pdf	Color		Printed W	14	0.15	2.10
27/01/2009 09:56	Yaniv	Printer2	http://localhost/sentinel/Users.asp	Color		Printed W	12	0.15	1.80
27/01/2009 09:56	Roe	Printer1	http://localhost/sentinel/Users.asp	B/W		Printed W	12	0.05	0.60
27/01/2009 14:30	Kidan	HP4345	Copy	Copy		Copied	10	0.08	0.80
27/01/2009 14:29	Administra	HP4345	Copy	Copy		Copied	10	0.08	0.80
27/01/2009 09:56	Yaniv	Printer2	http://localhost/sentinel/Users.asp	Color		Printed W	8	0.15	1.20
27/01/2009 09:56	Roe	Printer3	http://localhost/sentinel/Users.asp	B/W		Printed W	8	0.05	0.40
27/01/2009 09:50	Itai	Printer2	http://localhost/sentinel/Default.a	Color		Printed W	7	0.15	1.05
27/01/2009 09:56	Felix	Printer1	http://localhost/sentinel/Users.asp	B/W		Printed W	7	0.05	0.35
27/01/2009 09:56	Felix	Printer2	http://localhost/sentinel/Users.asp	Color		Printed W	7	0.15	1.05
27/01/2009 09:56	Yaniv	Printer1	http://localhost/sentinel/Users.asp	B/W		Printed W	6	0.05	0.30
27/01/2009 09:50	Itai	Printer1	http://localhost/sentinel/Default.a	B/W		Printed W	6	0.05	0.30
27/01/2009 09:56	Roe	Printer3	http://localhost/sentinel/Users.asp	B/W		Printed W	6	0.05	0.30
27/01/2009 09:56	Alex	Printer1	http://localhost/sentinel/Users.asp	B/W		Printed W	5	0.05	0.25
27/01/2009 15:21	Administra	HP4345	Copy	Copy		Copied	5	0.08	0.40
27/01/2009 09:50	Itai	HP4345	http://localhost/sentinel/Default.a	B/W		Printed W	4	0.05	0.20
27/01/2009 09:50	Itai	Printer1	http://localhost/sentinel/Default.a	B/W		Printed W	4	0.05	0.20
27/01/2009 12:36	Kidan	HP4345	Copy	Copy		Copied	4	0.08	0.32
27/01/2009 09:56	Felix	Printer3	http://localhost/sentinel/Users.asp	B/W		Printed W	4	0.05	0.20
27/01/2009 09:50	Kidan	Printer1	http://localhost/sentinel/Default.a	B/W		Printed W	4	0.05	0.20
27/01/2009 09:56	Roe	Printer1	http://localhost/sentinel/Users.asp	B/W		Printed W	4	0.05	0.20
27/01/2009 09:56	Felix	Printer1	http://localhost/sentinel/Users.asp	B/W		Printed W	4	0.05	0.20
27/01/2009 09:56	Felix	Printer3	http://localhost/sentinel/Users.asp	B/W		Printed W	4	0.05	0.20
27/01/2009 09:56	Roe	Printer2	http://localhost/sentinel/Users.asp	Color		Printed W	4	0.15	0.60
27/01/2009 09:56	Michal	Printer2	http://localhost/sentinel/Users.asp	Color		Printed W	3	0.15	0.45
27/01/2009 09:56	Michal	Printer2	http://localhost/sentinel/Users.asp	Color		Printed W	3	0.15	0.45
27/01/2009 09:41	Administra	Printer1	PDFC-ה'לגק 12345.pdf	B/W		Printed W	3	0.05	0.15
27/01/2009 09:57	Administra	HP4345	Copy	Copy		Copied	3	0.08	0.24
27/01/2009 09:56	Yaniv	Printer3	http://localhost/sentinel/Users.asp	B/W		Printed W	3	0.05	0.15

2/3/2009

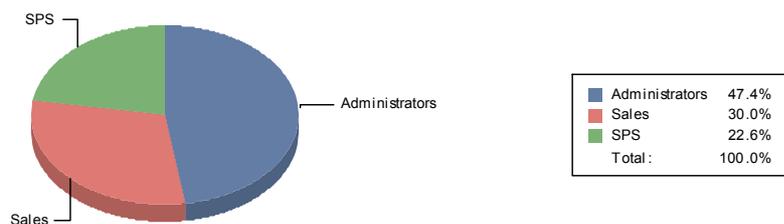
1

This group summary report is a convenient way to see a high-level print usage view of a group of users.

Activity Summary By Group



Percentage of Sum of Cost / Group



Activity Summary By Group

Group	B/W	Color	Copies	Total	Cost
Administrators	98	18	72	188	13.36
Sales	58	37	0	95	8.45
SPS	60	14	16	90	6.38
Total:	216	69	88	373	28.19