



# INTELLI*scribe*® User Manual

**Version 4.0**

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The Power to Print  
Brooks Internet Software, Inc.  
[www.brooksnet.com](http://www.brooksnet.com)

## **More Intelligent Printing with INTELLI*scribe***

- Simplify document distribution
- Improve printer management
- Create a more reliable print environment
- Save time with unique printing options
- Increase efficiency with smart printing features

## **Ideal for...**

- **Newsrooms** that want to print multiple copies of scripts
- **Business offices** that want to print documents to remote locations
- **Universities** that want to balance printer usage



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## Introduction

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INTELLI*scribe* brings you new options for printing documents and gives you the power to intelligently manage printers. Powerful, flexible, and easy to use, INTELLI*scribe* is the perfect tool to get more from your printing.

Once set up on a Windows®-based workstation or server, printing with INTELLI*scribe* is just like routine Windows printing: select the INTELLI*scribe* printer you would like to print through, and click *Print*.

### *More Options for Printing Documents*

Printing your documents in powerful ways just got a whole lot easier: Click *Print* once and have your news script sent simultaneously to eight network printers; reprint a copy of your sales forecast without opening the original application; print packaging information from your business office in Portland to your warehouse in Spokane.

With INTELLI*scribe*, you can print your documents how you want and where you want, quickly and efficiently. The following options will improve document printing:

<b>Broadcast Printing</b>	Print a document once and have it sent simultaneously to multiple network printers.
<b>Easy Reprint</b>	Reprint documents without launching the original application
<b>Destination Selection</b>	Reprint a document to a specified printer
<b>Drag and Drop</b>	Send printer-ready files without launching an application
<b>Command Line Interface</b>	Submit one or more files from any folder with ISendFile.
<b>Advanced User Interface</b>	View port, job, and destination details; query a destination for status, track activities, and manage print jobs.
<b>Seamless Integration</b>	Print efficiently from Windows applications because INTELLI <i>scribe</i> is fully integrated with the Windows Print Manager.

#### *Print job*

A print job is a printer-ready document that is visible in the Print Jobs tab of INTELLI*scribe*.



### More Intelligent Print Environments

In addition to giving you more document printing options, INTELLI*scribe* helps you achieve better printer utilization and establish more reliable print environments: distribute documents automatically between your office laser printers; print to any IP-addressable printer; dynamically discover printers on your network. The following options will help you get more from your printers and print environment:

<b>Fail-over</b>	Reroute print jobs automatically to another printer if the specified printer fails.
<b>Round Robin</b>	Print documents in turn to a sequence of printers.
<b>Destination Balancing</b>	INTELLI <i>scribe</i> maintains statistics on the amount of data sent to each printer, and automatically sends new documents to the least used printer.
<b>Service Location Protocol (SLP)</b>	Allows for dynamic discovery of destinations on a network
<b>Protocols Supported</b>	INTELLI <i>scribe</i> supports the LPR/LPD and HP JetDirect protocols.
<b>Platform-independent Targets</b>	Print to any TCP/IP addressable printer including midrange, mainframe, NT, UNIX, and Macintosh systems as well as hardware print servers.
<b>Ease of Use</b>	Easy-to-use Wizard provides step-by-step instructions to easily configure virtual printer ports.

### How Others Are Using INTELLI*scribe*

- **Newsrooms** are using INTELLI*scribe*'s broadcast printing function alongside their newsroom systems (iNEWS™, ENPS®, and others) to easily print scripts simultaneously to multiple network printers. In many cases, these printers are loaded with specific colored stock for different people. The SPA module allows network users in the newsroom access to INTELLI*scribe*'s broadcast printing.
- **Business Offices** with multiple locations across the country are using broadcast printing to distribute reports to users at each location.
- **Universities** are using round-robin printing with multiple, inexpensive network printers to more evenly distribute print loads among printers and to minimize downtime.
- **Warehouses** are using fail-over printing to ensure that important reports are printed.
- **Offices** are using destination-balancing to even out printer usage among multiple printers so a single printer is not overused and so ink and toner replacements will happen at closer to the same time.
- **Data Warehouses** are using INTELLI*scribe*'s reprint abilities to reprint one-time reports and queries that have been previously generated.



## How Does INTELLIscribe Work?

Using the standard LPR/LPD protocol (see side note), INTELLIscribe prints documents to common network printers as well as to other printers or print servers supporting the LPR/LPD protocol including most UNIX, midrange, and mainframe systems.

This means you are no longer limited to printing documents on printers connected directly to your computer or even to a local network: INTELLIscribe allows you to send documents to printers and print servers anywhere in the world using TCP/IP (Internet) technology. For systems that do not support the LPR/LPD protocol, the Jetdirect™ protocol may be used.

INTELLIscribe's basic flow is as follows, assuming you have already [configured a virtual print port](#) and [associated a Windows printer](#) with it (discussed later):

- 1 As usual, the application you are printing from (e.g. Word, Excel, Notepad, iNEWS, ENPS, etc.) uses the printer you have selected in the Print dialog to produce a document in the appropriate printer language (e.g. PCL, PostScript, and so on).
- 2 Windows then notifies INTELLIscribe a document (also known as a *print job*) is ready to print. The document is placed in the virtual printer port you have associated with the Windows printer.
- 3 The virtual printer port sends the print job to a destination (see note below) based on the port's configuration. For example, if the port is set up for broadcast printing, the print job will be sent simultaneously to each destination (network printer) associated with the port.

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**Note** The term *destination* is used interchangeably as *print server* and *network printer*. Network printers don't receive print jobs; that is done by a print server either integrated into the printer or connection externally to it. You can also have a software print server.

INTELLIscribe simply sends a document to a print server, and the print server decides what is actually done with it. Most print servers print documents to a physical printer. Others may provide additional functionality such as saving documents to a specified folder on a computer or network storage device.

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## What is LPR/LPD?

LPR/LPD is the printing protocol most commonly used in TCP/IP networks. It is a computer-to-computer printing method, rather than PC-to-PC. LPR stands for Line Printer Requester—the part submitting the requests. LPD stands for Line Printer Daemon—the part that receives and processes the request.

LPR/LPD is used extensively on university and business campuses where UNIX systems are common; the new generations of mainframe and business operating systems now support LPR/LPD.

The LPR/LPD protocol is documented in RFC 1179.

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### Daemon

A daemon is similar to a "service" in Windows operating systems. It is a program that runs, usually in the background, waits for certain events, and performs a function accordingly.

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### LPR client

INTELLIscribe is an LPR client. This term refers to a software product that uses the LPR/LPD protocol to send print jobs to an LPD Server.

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### LPD server

An LPD server is a software application that receives data using the LPR/LPD protocol from an LPR client. There are many varieties. RPM Remote Print Manager® is an LPD server. Many hardware print servers contain LPD servers in the firmware.



## Installing INTELLIscribe

INTELLIscribe is distributed with a Windows setup program, which guides you through the installation process on your computer. The setup program installs and initially configures all files needed to operate the software.

Here is the step-by-step installation process:

- 1 **Run the setup program** downloaded from our [website](#) or the single file executable (intelliscribe.exe) located on the installation CD.
- 2 **Welcome** At the Welcome screen, click *Next*.
- 3 **License Agreement** After reading and agreeing to the terms of the software license, click *Yes* to proceed. If you choose *No*, setup will not continue.
- 4 **Select Destination Location** Choose the destination folder for INTELLIscribe. The default folder is C:\Program Files\Brooks Internet Software\INTELLIscribe. Click *Next*.
- 5 **Select additional tasks** Decide whether to add a shortcut icons in your Startup group, the desktop, or the Quick Launch toolbar. INTELLIscribe runs as a service; these shortcuts are not necessary for program operation.
- 6 **Ready to Install** Setup displays information about your selections. Review the information in this dialog. If you want to make any changes, click *Back*. When you click *Install*, all files necessary will be copied to your computer.
- 7 **Completing** Setup does not typically require you to restart your computer, but will prompt you to do so in some circumstances. If so, choose *Yes*. Setup will then restart Windows. Note that setup configures INTELLIscribe to start automatically when the computer is restarted.

### Uninstalling INTELLIscribe

You can uninstall INTELLIscribe by running the *Add or Remove Programs* utility in *Control Panel*. Highlight INTELLIscribe and press the *Add/Remove* button (or equivalent).

## System Requirements

### Windows 2000/XP/Server 2003/Vista

- Internet Explorer 5.01 SP2 or later
- TCP/IP network

## Reporting Problems

Our goal at Brooks Internet Software, Inc. is for you to receive the maximum benefit from our software products. Sometimes you may require assistance even after reviewing the documentation. If this is the case, please contact us via email at [support@brooksnet.com](mailto:support@brooksnet.com).

- If you are researching a feature and the documentation is unclear, we ask that you explain what you are looking for and how the documentation does not seem to help. If you have a suggestion on how it can be improved, please pass that along as well.
- If INTELLIscribe does not seem to do what you expect, please tell us what you think it should do and why. Many features included in our products come from user feedback and needs.

If you experience a software failure, we ask that you do the following:

- 1 Get a screen shot, or exact text of the failure.
- 2 Retry the print job. We want to know if it happens every time, if it is intermittent, or simply a one-time problem.
- 3 Open the Log Window and view the events for any error or warning messages.
- 4 Open the "About" dialog and determine the exact version of INTELLIscribe.
- 5 Email a copy of all relevant information to [support@brooksnet.com](mailto:support@brooksnet.com).
- 6 Please be ready to provide further information, as it may be required to research and resolve the problem.





## Quick Start Guide

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Getting started with INTELLIscribe involves two main steps: a) creating a virtual printer port and b) creating a Windows printer and assigning the virtual printer port to it.

### a. Set up a virtual printer port or ports

In INTELLIscribe, selecting *Add* from the *Port* menu opens the *Virtual Printer Port Wizard*, which guides you through the following steps to create a virtual printer port:

- 1 Configure Port** Enter a name for the port. If multiple printing destinations will be used, choose a port policy (see side note).
- 2 Add Destinations** Enter the hostname or IP address, then select a protocol and port for each new destination and click the *Add Destination* button.
- 3 Configure Protocol Options** Customize each destination by entering protocol-specific configuration.

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**Note** These steps are outlined in more detail in the [Setting up INTELLIscribe](#) section.

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### b. Create a Windows printer and assign the virtual printer port

The Windows *Add Printer Wizard* guides you through this process. This wizard accomplishes the following tasks.

- Choose how this printer is connected to your computer: local or network. Windows considers a printer utilizing INTELLIscribe as a *local printer*. Do not allow Windows to automatically detect your "plug and play" printer.
- Select the port to which this printer will print. Here you choose the virtual printer port created in the *Virtual Printer Port Wizard*.
- Select the type of printer from a list of manufacturers and models. If your printer is not listed, install the driver using the manufacturer supplied CD-ROM.
- Choose from various other options such as whether to set the printer as the default and whether or not you wish to print a test page.
- The Wizard allows you to select whether or not this printer will be shared. See the note below for more information.
- Provide a unique name for the printer.

#### Virtual printer port

A named port that associates a Windows printer with one or more network printing destinations

#### Port Policies

Port policies determine how a port selects a printing destination when a document is printed, and how the port handles a printer failure. Choosing the right policy is important when more than one printing destination is associated with a port. If only one destination is available, the policy selection is ignored. The following policies are available:

- **Broadcast/multicast:** print a document once and have it sent simultaneously to multiple network printers
- **Round-robin:** documents are printed in turn to a sequence of printers
- **Fail-over:** when a printer fails, backup printers are available to print the document
- **Destination balancing:** statistics are maintained on the amount of data sent to each printer; new documents are printed to the least used printer
- **SLP:** query SLP servers for available printers, and the user selects the printer if more than one is found

## Setting up INTELLIscribe

The preceding Quick Start Guide section gave you a brief overview of the two general steps you will follow in setting up and configuring INTELLIscribe. This section will provide more detailed setup instructions.

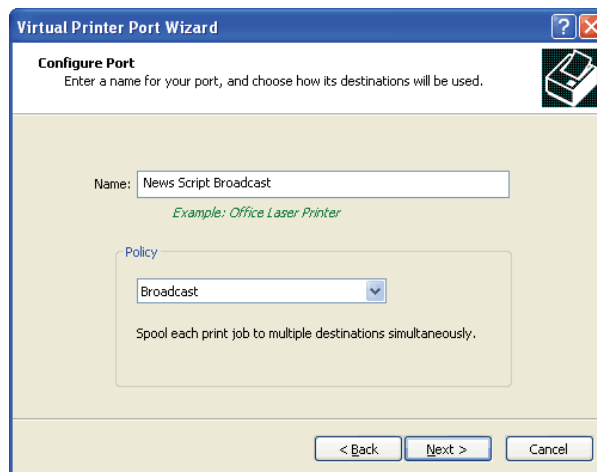
### Creating or Updating a Virtual Printer Port

The *Virtual Printer Port Wizard* guides you through the steps of adding or updating a virtual printer port.

- 1 To add a new port, select *Add* from the *Port* menu. To update an existing virtual printer port, choose *Update* from the same menu. A welcome screen explains the Wizard's purpose. Click *Next* to begin configuring the port.

- 2 **Configure Port** The *Configure Port* step allows you to enter the name of the virtual printer port and select a port policy.

- a. **Name** This field should contain the name of the virtual printer port. Each port must have a unique name. A name is required when creating a new virtual printer port; the name cannot be changed when updating a port. The port name has no size limit and can contain most characters including spaces (see side note).



Step 2: *Configure Port*

- b. **Port Policy** Select the policy you want this port to use (see side note). Port policies determine how a port selects a printing destination when a document is printed; the policy also determines how the port handles a printer failure. If only one printing destination is available, the policy selection is ignored. The available policies are outlined in the following table. When you have selected a policy, click *Next*.

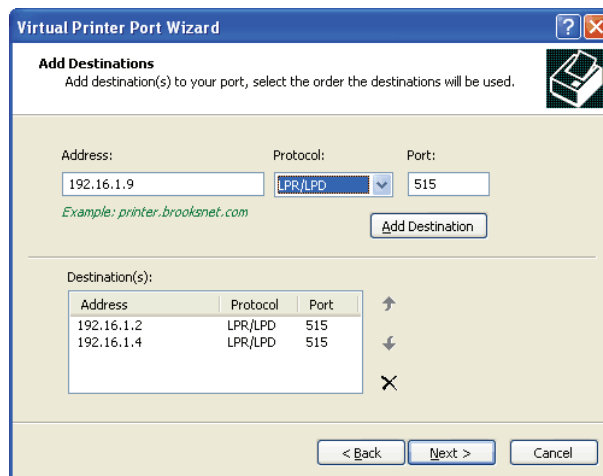
**Name Field:** We recommend the port name be 32 characters or less. You should also use a descriptive name such as "Printer in room 3" or "Office Printer." This will be the name known by the Windows Print Manager.

**Port Policy:** When more than one printer is entered, the printers must either be the same model or support a common print driver. For instance, two HP LaserJet 4 printers can be used.

Port Policy	Description	Use/Benefit
<b>Broadcast-Multicast</b>	Print a document once and have it sent simultaneously to multiple network printers.	<ul style="list-style-type: none"> <li>• Simplify document distribution</li> <li>• Save time</li> <li>• Increase Efficiency</li> </ul>
<b>Round Robin</b>	Documents are printed in turn to a sequence of printers.	<ul style="list-style-type: none"> <li>• Automatic printer selection</li> <li>• Better utilization of resources</li> </ul>
<b>Fail-over</b>	When a printer fails, backup printers are available to print the document.	<ul style="list-style-type: none"> <li>• More reliable printing</li> </ul>
<b>Destination Balancing</b>	Statistics are maintained on the amount of data sent to each printer; new documents are printed to the least used printer.	<ul style="list-style-type: none"> <li>• Better resource utilization</li> </ul>
<b>SLP (Service Location Protocol)</b>	Queries the network for a list of available printers. A user selects the printer if more than one is found. In the Destinations window, users can select a printer as the default, which is then printed to regardless of how many printers are available.	<ul style="list-style-type: none"> <li>• Reduces the amount of technical knowledge and training required for end users</li> <li>• A SLP server must be present on your network</li> </ul>

**3 Add Destination(s)** The Add Destinations step allows you to create a printer (destination) or printers that the virtual printer port will send documents to. You will need to create more than one destination if you want to use the port policies (as discussed in Step 2b) effectively by sharing print duties between printers.

- a. **Address** Enter the IP address or hostname of the printer or print server.
- b. **Protocol** From the list, select the protocol you want this printer to use. You should verify that the protocol is supported by your



Step 3: Add Destinations

**Hostname**

A host name is the name assigned to a host computer on a TCP/IP network. It must be unique on the network. Often, you can substitute the IP address for a host name. Ask your network staff for assistance.

**IP Address**

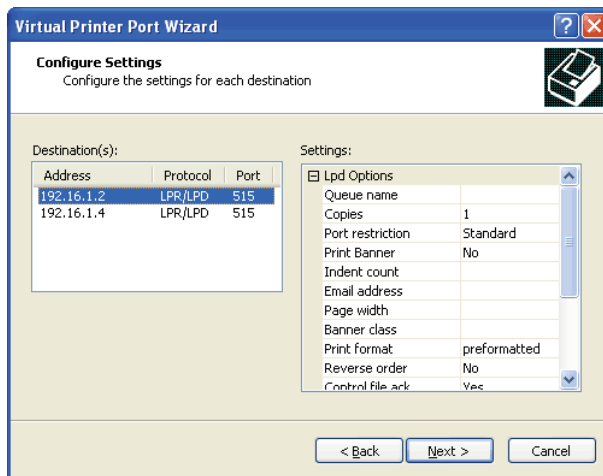
An IP Address is a 4-octet number that is used by TCP/IP to identify a device (or node) on the network. An LPR client needs the IP Address of the LPD server in order to send data to it.

print server. Most hardware print servers support the LPR/LPD protocol.

- c. **Port** Enter the TCP/IP port number you want to send data on. The default port number for LPR/LPD is 515 and is entered automatically. Most single-port JetdDirect print servers receive data on port 9100; this port number is entered automatically when selecting the JetDirect protocol.
- d. **Destination(s)** This box contains a list of destinations (printers) that have been created for the port. If updating an existing port, the list should be populated automatically.
  - i. **Buttons** The Up and Down buttons increase or decrease the priority of the selected destination. If only one destination is available or if the destination is already the highest (or lowest) priority, the buttons do not perform any operation. The Delete button deletes the selected destination, but there must be at least one destination to continue.

**4 Configure Destination Options** This final step allows you to customize the configuration of each destination (see side note). This step has protocol-specific attributes, as well as destination-specific settings. You must specify a *Queue Name* for each destination using the LPR/LPD protocol (see side note).

- a. **Destination(s)** This lists all destinations that have been entered in the previous step. Highlighting a different destination populates the *Settings* list with the destination's current configuration.
- b. **Settings** The Settings list displays either an LPD or JetDirect options list depending on the highlighted destination. Each protocol has a different set of options that can be configured.



Step 4: Configure Destination Options

- i. **LPD Options List** The following table describes the LPD settings:

Parameter	Description
<b>Queue Name</b>	This is a required parameter: <a href="#">Name of the queue</a> on the LPD server (see side notes).

**Configure Options:** Always attempt to print using the default settings first; then modify these settings as needed. Normally, the default attributes are sufficient.

**LPD Queue Names:** A list of [LPD queue names](#) for common network printers and servers is available on Brooks' website.

**LPD Queue Name**

Within most LPD servers, you can configure a queue with specific characteristics. LPD queues are uniquely identified by their name. Each queue may have different characteristics. When LPR clients send data to an LPD server, they must specify a queue name.

**LPD server**

An LPD server is a software application that receives data using the LPR/LPD protocol, which is part of the TCP/IP suite of protocols, from an LPR client. There are many varieties. RPM Remote Print Manager® is an LPD server. Many hardware print servers contain LPD servers in the firmware.



Parameter	Description
<b>Copies</b>	Notify the print server to print a specified number of copies. In most cases, hardware LPD servers cannot print multiple copies with this setting, but software LPD servers can.
<b>Port Restriction</b>	Configures the LPR/LPD client port restriction. This is the source port, not the destination port which is typically 515. Available settings are: <ul style="list-style-type: none"> <li>• Relaxed: no restrictions on available client ports</li> <li>• Standard: any port less than 1024 can be used</li> <li>• Strict: only ports in the range of 721-731 are used</li> </ul>
<b>Print Banner</b>	Request that a banner page be printed with the document or not
<b>Indent Count</b>	Tell the printer what the left margin is, depends on the Print Format setting.
<b>E-mail Address</b>	Request that the print server send email to the recipient specified here. Most LPD servers do not support this option.
<b>Page Width</b>	Specifies the width of the document in number of characters. This option may not be supported by most LPD print servers.
<b>Banner Class</b>	Sets the class name to be printed on the banner page.
<b>Print Format</b>	Informs the LPD what type of file is being sent. Most LPD servers ignore this setting.
<b>Reverse Order</b>	Forces the application to send the control file last.
<b>Control File Ack</b>	Wait for an acknowledgment after sending the control file before proceeding.
<b>Data File Ack</b>	Wait for an acknowledgment that the data file was received before proceeding.
<b>Ignore Final Ack</b>	Regardless of information received from the printer, INTELLiscribe will consider a document printed if all the data in the document has been sent.
<b>Timeout</b>	Sets the number of seconds of inactivity before closing a connection.
<b>LPD Status</b>	Select whether you wish to receive a long or short queue status when testing.
<b>Log Detail</b>	Allows you to set log detail for the destination. If you select the default, use global, INTELLiscribe will use the setting configured in the Global Options Dialog.



- ii. **JetDirect Options List** The following table describes the JetDirect settings:

Parameter	Description
<b>Print Banner</b>	Forces INTELLiscribe to insert a PCL banner page prior to spooling.
<b>Copies</b>	Request that the print server print a specified number of copies
<b>Solicit Device Status</b>	Request status about the JetDirect device while printing
<b>Solicit Job Status</b>	Request status about the print job while printing
<b>Solicit Page Status</b>	Request status about the current page while printing
<b>Timeout</b>	Sets the number of seconds of inactivity before closing a connection.
<b>Query Status</b>	<p>These settings specify information requested when querying the destination:</p> <ul style="list-style-type: none"> <li>• <b>ID</b> The model number of the printer (e.g. LaserJet 4)</li> <li>• <b>Status</b> Obtain the current status of the printer</li> <li>• <b>Config</b> Obtain configuration information, such as paper sizes</li> <li>• <b>Filesystem</b> Obtain PJI file system information</li> <li>• <b>Memory</b> Determine the amount of memory the printer has installed</li> <li>• <b>Page</b> Obtain the number of pages printed by the current print engine</li> <li>• <b>Variable</b> Obtains environmental and printer variables, possible values, and current settings</li> <li>• <b>USTATUS</b> Obtains the unsolicited status variables, possible values, and their current settings</li> </ul>
<b>Log Detail</b>	Allows you to set log detail for the destination. If you select the default, use global, INTELLiscribe will use the setting configured in the Global Options Dialog.

- 5 After you finish configuring the destinations, click *Next*. Then click *Finish* on the completion page to complete the process of adding (or updating) your virtual printer port.

**Note** After creating the virtual printer port, follow the instruction on page 5 to create a Windows printer and assign the virtual printer port to it.

## Using INTELLIscribe

After you have set up the virtual printer port or ports in INTELLIscribe and created a Windows printer and assigned the virtual printer port to it, you are ready to begin printing through the port and using INTELLIscribe's other features.

### Printing with INTELLIscribe

Printing through INTELLIscribe from other applications is just like normal Windows printing:

- 1 In the application you are using (e.g. Word, iNEWS, Excel, ENPS, and so on), access the Print dialog as usual and select the Windows printer you created and linked to the INTELLIscribe virtual printer port.
- 2 Click Print. The document is printed through INTELLIscribe using the port's policies and settings. For example, if you have set up a virtual printer port that uses the broadcast policy, the news script you print once from iNEWS (or other application) is printed automatically to each network printer associated with the port.

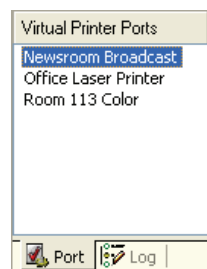
### Working with Print Jobs

After you have printed a document through INTELLIscribe, it is displayed in the Print Jobs tab of the virtual printer port through which it was printed. The displayed print job represents the printer-ready document stored in INTELLIscribe's Spool directory. You can work with these print jobs in a number of ways: drag jobs from one port to another; reprint, cancel, or delete a job; reprint a copy of a job to a destination of your choice; or view a job's properties.

### Drag-and-Drop Printing

In INTELLIscribe, you can drag printer-ready files to any virtual printer port. In addition, you can drag a job from one virtual printer port to another (see side note). The following steps describe how to use drag-and-drop printing:

- 1 Select a printer-ready file (for example, using Windows Explorer) or a print job in the Print Jobs tab of INTELLIscribe.
- 2 Drag the file or print job directly over the virtual printer port you want to print through.
- 3 Drop the file or print job onto the virtual printer port. Your file or print job is printed through the selected virtual printer port. INTELLIscribe sends the document to the desired printer(s) without launching an application or involving the Windows print driver.



Step 2: Virtual Printer Ports List


**Drag and Drop Example:** After printing a news script through a port configured for broadcast printing, you could drag the script print job from the Print Jobs tab to another virtual printer port that may be set to broadcast the script to another set of printers.

**New Drag and Drop Use:** Print jobs can also be dragged from INTELLIscribe and viewed in editors that support drag and drop (e.g. Notepad, Outlook, and so on). You might use this feature for troubleshooting purposes.



## Reprinting Documents

Using INTELLIscribe, you can easily reprint documents. Complete the following steps to reprint a job:

- 1 In INTELLIscribe, select the document or documents you want to reprint.
- 2 Right-click and select *Reprint* from the *Job* menu. Or, press the reprint button  on the toolbar. The document is reprinted.

You can also reprint a job to a destination of your choice. At the bottom of the Print Jobs tab, the Print Selected Jobs To list allows you to print the selected print job(s) to the destination of your choice. This destination is displayed in the form of `host:port_number:queue`. Complete the following steps to print a job to a selected destination:

- 1 In the Print Jobs tab, select the job or jobs you want to reprint (see side note).
- 2 From the Print Selected Jobs To list, select the destination you want to print the job to.
- 3 Click Print. The print job or jobs are immediately scheduled to print to the destination selected in the list.

## Canceling Print Jobs

After a print job has been scheduled to print, you can cancel it. Complete the following steps to cancel a print job:

- 1 In the Print Jobs tab, select the print job you want to cancel.
- 2 Right-click the print job and select *Cancel*. The job is canceled.

## Deleting Print Jobs

You can delete print jobs from the Print Jobs tab and permanently remove them from the INTELLIscribe's Spool directory. Complete the following steps to delete a print job:

- 1 In the Print Jobs tab, select the print job you want to delete.
- 2 Right-click the print job and select *Delete*. The job is permanently deleted.

## Viewing Print Job Properties

You can view detailed information about each print job. To view a print job's properties, complete the following steps:

- 1 In the Print Jobs tab, select the print job whose properties you want to view.
- 2 Complete one of the following steps to open the Job Properties box:
  - a. Double-click the print job.
  - b. Right-click and select *Properties*.
  - c. Select *Properties* from the *Job* menu.

---

**Reprint Note:** Reprinting in this way does not require that you launch the application that was originally used to print the document.

---

---

**Select Multiple Jobs:** To select multiple jobs to reprint, cancel, or delete, hold the *Ctrl* or *Shift* keys while selecting another job.

---



3 In the Job Properties box, you can view the following information about the print job:

- a. **General** The General section displays the job identification number and the job status.
- b. **Settings** The Settings section displays information about the job's settings:

- i. **User** The name of the user who submitted the job.

- ii. **Host** Hostname of the computer.

- iii. **Source** Information about where the print job originated.

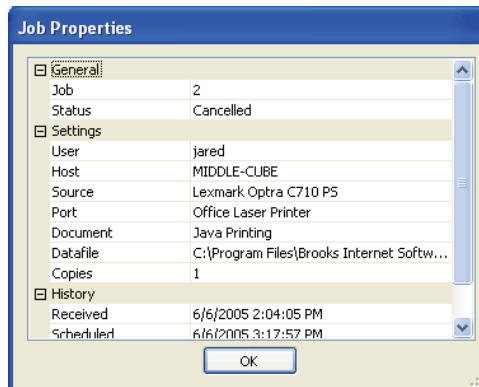
- iv. **Port** The virtual printer port that the job was submitted to.

- v. **Document** The name of the print job or the name of the file if the document name is not available.

- vi. **Datafile** The path to locate the file on your computer.

- vii. **Copies** The number of copies that were requested.

- c. **History** Displays the date and time when the print job was received, scheduled, and completed (i.e. when the print job finished printing).



Step 3: Job Properties Dialog Box



## Working with Destinations

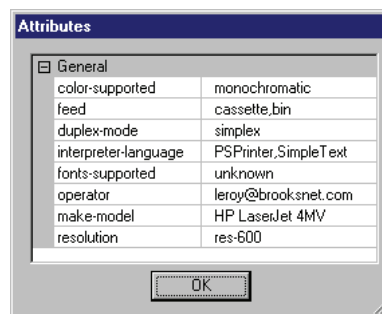
### Viewing SLP Printer Attributes

You can view detailed information about an SLP destination. Only destinations found through the Service Location Protocol (SLP) can display attributes. Read more about [Service Location Protocol](#).

Attributes must be configured at the *service* or *directory agent*. Information in the Attributes dialog is not static, nor can it be configured using INTELLIscribe. The information is obtained from other SLP agents through TCP/IP.

To view a destination's attributes, complete the following steps:

- 1 In the Destinations tab, select the SLP destination whose attributes you want to view.
- 2 Either right-click the destination and select *Attributes*, or select *Attributes* from the *Destinations* menu. The destination's attributes are displayed in the Attributes box.



Step 2: Attributes Dialog Box

### Querying a Destination's Status

You can query a destination for status information, including address, protocol, port, print jobs, and so on. Complete the following steps to query a destination for status information:

- 1 From the Virtual Printer Ports list, select the virtual printer port associated with the destination you want to query.
- 2 In the Destinations tab, select the destination.
- 3 Right-click the destination and select *Query Status...* The status information is displayed in the information box near the bottom of the Destinations tab.

### Deleting a Port

Deleting a port removes the port, all the jobs in the port, and the virtual printer port configuration. More than one virtual printer port can be deleted at a time. Complete the following steps to delete a port or ports:

- 1 Complete one of the following steps to open the Delete Port dialog box:
  - a. Select *Delete* from the *Port* menu
  - b. Highlight the virtual printer port in the Virtual Printer Ports list, right-click, and select *Delete*.
  - c. Highlight the virtual printer port in the Virtual Printer Ports list and click *Delete* on the keyboard.

#### *service agent*

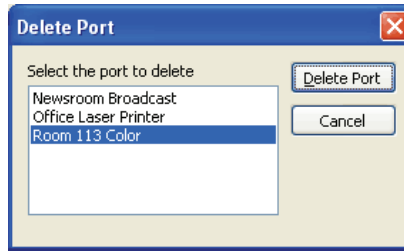
An SLP software application used to broadcast the existence of network services.

#### *directory agent*

A SLP term that describes a centralized repository for service location information.

**Note:** The information in the Attributes box can be copied to the clipboard, but it cannot be edited.

- In the Delete Port dialog box, select the virtual printer port you want to delete and click *Delete Port* (see side note). The port is deleted. If any print jobs associated with the port are active (i.e. are printing or being transferred), those print jobs will be cancelled prior to the port being deleted. All destinations, print jobs, and configurations of the port are removed.



Step 2: Delete Ports Dialog Box

---

**Note:** You cannot undo a port deletion operation. Once the port is deleted, it cannot be retrieved.

---

## Setting INTELLIscribe's Options

Complete the following steps to set general options (log, failure notification, etc.), print jobs (deletion, spool directory, and retry), and Service Location Protocol (SLP).

1 Select *Options...* from the *View* menu. The Global Options dialog box is displayed with its three tabs (General, Job Options, and SLP).

2 **General Tab** Click the General tab to set global options for INTELLIscribe. The following options can be set:

a. **Log** These options relate to the log files INTELLIscribe maintains.

i. **Log Detail** Sets how logging is done. You can choose None, Low, or High. When High is selected, the maximum amount of logging is done for each destination (see side note).

ii. **Remove Log Files Older Than \_ Days** Determines how often the log files are deleted. You can enter the number of days you want to pass before the log files are deleted.

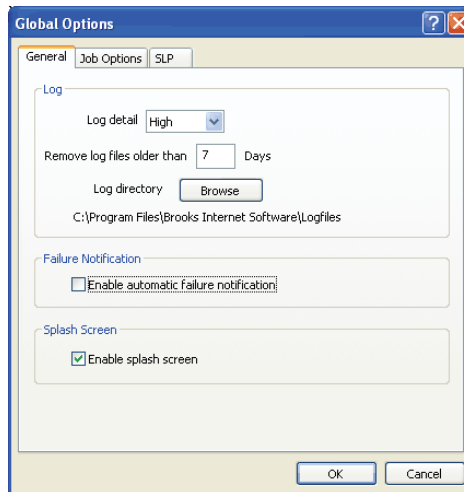
iii. **Log Directory** Allows you to browse for the location where you want the log files will be stored. Click the Browse button to change the location where the log files are stored. The current path where the files are stored is shown below the Browse button.

b. **Failure Notification** When automatic failure notification is checked, a message box is displayed for each job that fails printing. Deselect the Failure Notification option if you do not want to view the message notification. The errors and warnings will still be logged and can be viewed in the Log tab.

c. **Splash Screen** When Enable Splash Screen is checked, the INTELLIscribe splash screen is displayed when INTELLIscribe starts. Uncheck the option to disable the splash screen.

3 **Job Options Tab** Click the Job Options tab to set options related to print jobs.

a. **Job Deletion** The Job Deletion option allows you to decide how and when you want to delete print jobs archived in the INTELLIscribe spool directory.



Step 2: General Options Tab

**Destination Logging:** The log detail can be customized for each destination. If you want a different log level for a destination, update the Log Detail setting in the Settings section of the Configure Settings step in the Virtual Printer Port Wizard.

i. **Delete Jobs After They Are Printed** Select this option to cause INTELLIscribe to delete jobs after they print.

ii. **Delete Printed Jobs After \_ Days** Select this option to keep printed jobs for a configured number of days. For example, select this option and enter 2 if you want print jobs to be removed after 2 days.

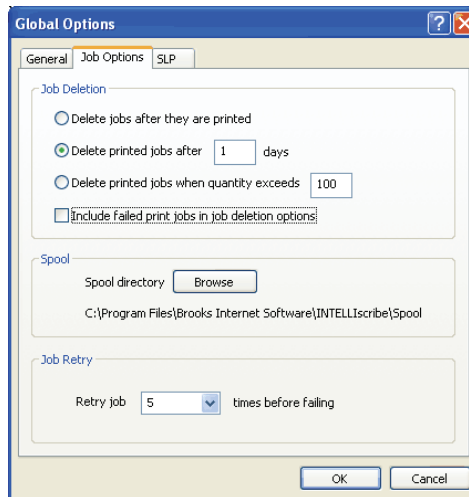
iii. **Delete Printed Jobs When Quantity Exceeds** Select this option to preserve only a certain number of print jobs. When the specified number of print jobs in the spool folder is exceeded, the oldest jobs are deleted automatically.

iv. **Include Failed Print Jobs in Job Deletion Options** Select this option if you want print jobs that fail or have been cancelled to also be removed when the job deletion criteria are met.

b. **Spool Directory** Click the Browse button to change the location where the spool files are stored. The current Spool directory path is shown below the Browse button.

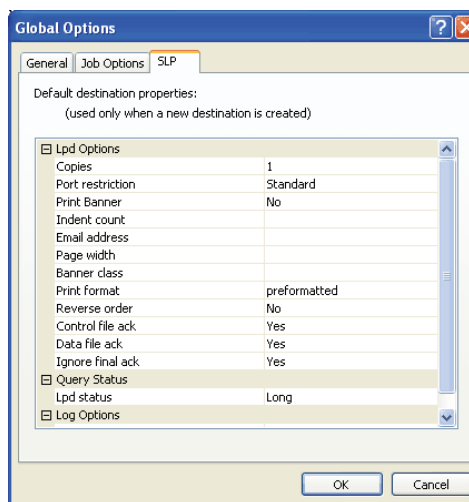
c. **Job Retry** You can specify the number of times to try printing a job before the destination is considered in error. The print job is always tried once, then retried the configured number of times. From the list, select the number of times you want to retry.

4 **SLP Options Tab** Click the SLP Options tab to configure the protocol settings that are applied to any new destinations that are added during the course of operation. This tab shows all protocol options for LPR/LPD destinations currently (see side note). More protocols may be added here when other protocols support the service location protocol.



Step 3: Job Options Tab

**SLP Note:** Queue name is not configurable in this dialog because the queue name is learned through SLP.



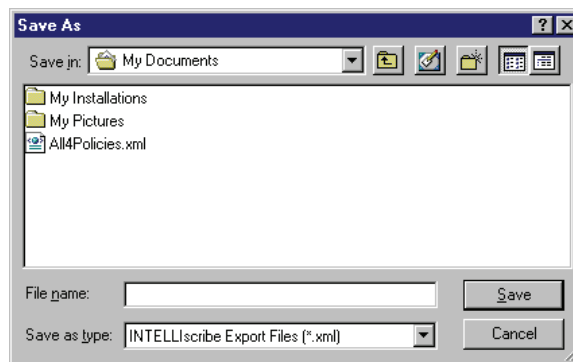
Step 4: SLP Options Tab

## Working with Configuration Files

### Exporting Configuration Files

You can export a configuration file that contains your virtual printer port configurations. These configuration files can be used for backup purposes or to replicate a configuration on any number of other computers running INTELLIscribe (see side note). Complete the following steps to export a configuration file

- 1 From the *File* menu, select *Export...*
- 2 Enter a name for the configuration file in the *File name* field.
- 3 Browse for the folder in which you want to save the file.
- 4 Click the *Save* button. The .xml configuration file is saved in the specified location.



#### XML Format (\*.xml)

Configuration files are exported in XML format. This format is more flexible than \*.reg format and allows INTELLIscribe to more easily handle importing configurations.

### Importing Configuration Files

You can import a configuration file that contains virtual printer port configurations from another instance of INTELLIscribe. This option locates files with a .reg or .xml extension only. You cannot browse for other file extensions. Complete the following steps to import a configuration file:

- 1 From the *File* menu, select *Import...*
- 2 Navigate to the folder where the configuration file (in \*.xml or \*.reg format) is stored.
- 3 Select the configuration file and click *Open*. The virtual printer port configuration is imported into INTELLIscribe. The imported ports are displayed in the Virtual Printer Ports list.

#### Registry Format (\*.reg)

INTELLIscribe can import registry format (\*.reg) configurations from previous INTELLIscribe software versions; however, if the registry files are not specific to INTELLIscribe configuration, they will not be imported.

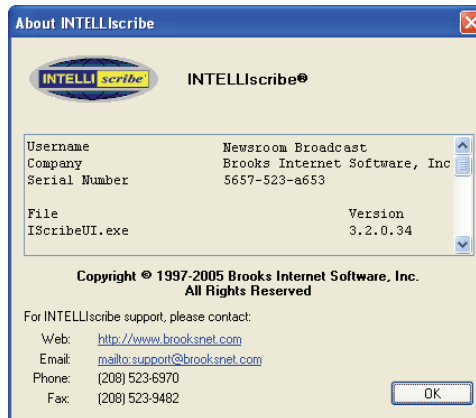


## Viewing Information about INTELLIscribe

To view information related to INTELLIscribe, including serial number, version number, and so on, complete the following steps (see side note):

- 1 Select *About INTELLIscribe...* from the *Help* menu. The About INTELLIscribe dialog box is displayed. The box contains the following information:

- a. **License Information** Displays the license information including username, company, and serial number (see side note).
- b. **File Versions** The version number of each file in the INTELLIscribe installation folder is displayed.
- c. **Support Contact Information** Provides information that will help you obtain technical support on Brooks' website, over the phone, by email, or by fax (see side note).



Step 1: INTELLIscribe About Box

**About Dialog:** This dialog is used to display information about the application and will be requested when obtaining technical support.

**License Information:** If the software has not been activated, the username and company shown are obtained from Windows.

**Technical Support:** Before you submit a problem report, please see the [Reporting Problems](#) section. Also, if you have Internet access, you can search the online support section of our website ([FAQ Index](#)); here you can search for common problems or situations encountered with this application or other products.



## ISendfile Command Line Interface

ISendfile is a utility program provided by INTELLIscribe. Its purpose is to provide a DOS command line interface for printing one or more files to a virtual printer port. ISendfile can be called from a DOS command prompt, or a DOS batch file. It does not open a window or prompt for user input (see side note).

Applications of this feature include:

- Sending large files to a directory and automatically printing them during low impact hours by an automatic call (e.g. batch file) to ISendfile.
- Sending files to another host on the network by a call to ISendfile after running another local program.

### The ISendfile Interface

To obtain help with ISendfile, type the following text: `ISendfile --help`. If you do, the text below will be displayed:

```
Usage: isendfile [ options ] port file
Options include:
--help          Display this help text
-v | --verbose  Print messages about ISendfile actions
-s             Silent, opposite of verbose
-h            No banner for this job
-F=format      Format is one of the following:
               f - formatted, l - leave control characters, o - Postscript
               p - use 'pr' format, r - FORTRAN, c - CIF, d - dvi, g - plot
               n - ditroff, t - troff, v - raster
-C=class      Class is used on banner page; up to 31 characters
-T=title      Job title
-J=jobname    Job name
-K=copies or -#=copies  Number of copies of each file to be printed
-P=port      Equivalent to the 'port' argument
-U=username   Specify a username; otherwise use the logged-in username
               -i=columns  Indent input by columns (LPD only)
               -w=width    Specify the page width (LPD only)
               -H=host     Hostname that jobs comes from, defaults to local computer name
               -Z=options  Pass the specified options
```

*Command line ISendfile help*

### ISendfile Options, Variables, and Messages

The following tables explain in greater detail the ISendfile command line options, environment variables, and error messages:

---

**Error Handling:** If ISendfile does not understand the command line, or if it cannot connect to INTELLIscribe, it prints an error message and exits.

---

### ISendfile Requirements

- The user must have one or more virtual printer ports, created with the *Virtual Printer Port Wizard*.
- The virtual printer port named must exist. Port names can contain spaces (see the [ISendfile Examples](#) section).
- The file or files named must exist and must be readable (i.e. user must have permission to read them).





Option	Explanation
--help	Display this help text
-v --verbose	Print messages about ISendfile actions (this is the default)
-s	Silent, opposite of verbose. ISendfile will not print a message about each file it sends, but errors are still printed.
-h	If INTELLIscribe prints the file to an LPD destination, then it suppresses the banner page
-F=format	Format is one of the following: f - formatted, l - leave control characters, o - Postscript p - use 'pr' format, r - FORTRAN, c - CIF, d - dvi, g - plot n - ditroff, t - troff, v - raster
-C=class	The job class is typically used by LPD servers on the banner page; some servers ignore it
-T=title	Job title, which may be used on a banner page or with 'pr' format
-J=jobname	Job name; may be used on a banner page
-K=copies #=copies	Number of copies of each file to be printed Note that not all print servers support the copies option
-P=port	Equivalent to the 'port' argument
-U=username	Specify a username; otherwise use the logged-in username; LPD print servers typically expect a username
-i=columns	Indent input by columns (LPD only)
-w=width	Specify the page width (LPD only)
-H=host	Hostname that jobs comes from, defaults to local computer name LPD print servers typically expect an originating hostname, though if one is not provided then it will use other means to determine a valid hostname.
-Z=options	Pass the specified options. This is used by some print servers for custom processing.

ISendfile Table 1: Options

Variable	Usage
PRINTER	ISendfile will use this as the port to send files to, if you do not specify the port with the -P option or as a command line argument
USERNAME	ISendfile will use this as the user requesting the print job if you don't specify the -U option

ISendfile Table 2: Environment Variables



Message	Resolution
** Filter format is one character only:	If you use the -F switch, the value you specify must be exactly one character
** Indent must be digits 0-9 only:	If you use the -i switch, the argument must contain digits only.
** Width must be digits 0-9 only:	If you use the -w switch, the argument must contain digits only
** Unexpected options	You have specified options that ISendfile did not expect.. One reason might be reversing upper or lower case; ISendfile options are case sensitive.
** Missing port or filename	You must always specify a filename or file spec (using * or ?) The port must be specified as an argument, an option or environment variable.
Failed to create print job in INTELLIscribe	Run the INTELLIscribe user interface and check the log
Job was created in INTELLIscribe but has no properties	Run the INTELLIscribe user interface and check the log
Job is waiting in INTELLIscribe, not submitted	The most likely reason is that the INTELLIscribe trial period has ended. Run the INTELLIscribe user interface and check the log.
To get program options type 'isendfile -help'	This is the "brief" message which is not an error by itself; it accompanies other error messages.
** Error checking file 'file' :	ISendfile tried to get information on a file, but failed.
** 'file' is a directory	ISendfile can't send directories
** 'file' is not a file	ISendfile can only send regular files
** 'file' is empty	ISendfile won't send empty files
** Port 'name' is not defined	The port you send to must be defined in INTELLIscribe. Other Windows ports are not supported.
** Error checking port definition	IServ, the INTELLIscribe service, is not providing port information. It might not be running. Please run the INTELLIscribe user interface and check the log.

ISendfile Table 3: Error Messages



### *ISendfile Examples*

The following examples assume that you have already created a virtual printer port named "Office". Help with creating a printer port can be found in the [Setting Up a Virtual Port](#) section. Note that the virtual printer port names are case sensitive.

Example	Command Line
To print all text files in a directory:	<code>ISendfile.exe Office c:\path\to\*.txt</code>
To specify an alternate print format:	<code>ISendfile.exe -F=o Office c:\path\to\file.txt</code>
To specify 3 copies to print:	<code>ISendfile.exe -K=3 Office c:\path\to\file.txt</code>

*ISendfile Table 4: Examples*

---

**Spaces:** If either the virtual printer port or file path contains spaces, enclose it in quotation marks. An example is:

```
ISendfile "Office
Printer" "c:\file with
spaces.txt"
```

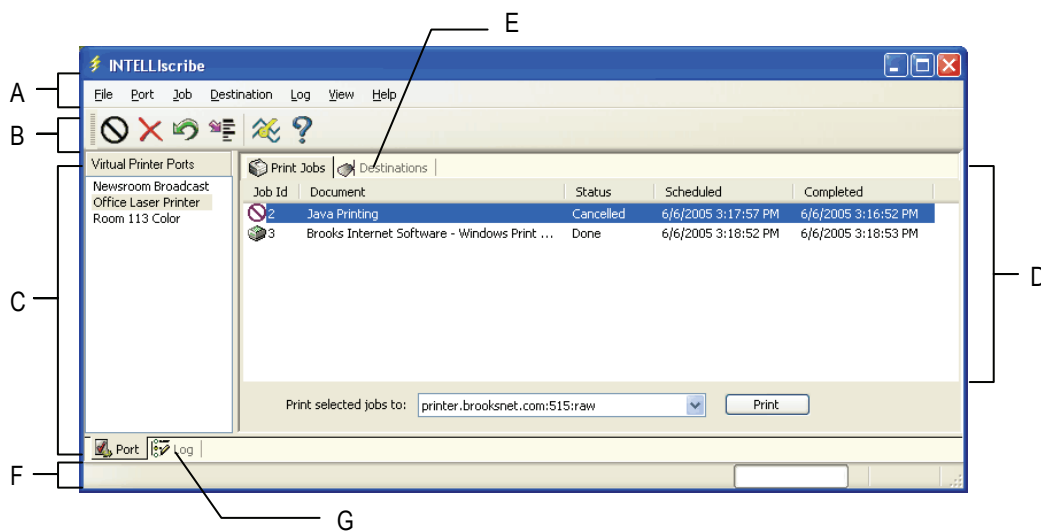
---

## User Interface Guide

This section explains the windows, tabs, and menus found in the main INTELLIscribe window.

### INTELLIscribe Window

The main INTELLIscribe window resembles a typical Windows application. Starting from the top, it contains a title bar, menu bar, and toolbar. Directly beneath the toolbar, the tabs are shown along with the status bar.




[A. Menus](#) [B. Toolbar](#) [C. Virtual Printer Port Tab](#) [D. Print Jobs Tab](#) [E. Destinations Tab](#) [F. Status Bar](#) [G. Log Tab](#)

Click the links to the left to learn more about the corresponding section of the INTELLIscribe window.



## A. INTELLIscribe Menus

The following table describes each menu item and the function it performs. In addition to the standard menu in *INTELLIscribe*, an *INTELLIscribe* icon  is also displayed in the task tray:

Menu	Command	Description
<b>File</b>	Import...	Imports virtual printer ports if you have previously exported a configuration file. When a configuration file is imported, the virtual printer port setup is merged with the current configuration (see side note).
	Export...	Once virtual printer ports are configured, the virtual printer ports may be exported to a file (see side note).
	Exit	Close the <i>INTELLIscribe</i> user interface. This does not stop the application from printing. To place the user interface in the task tray, use the minimize button.
<b>Port</b>	Add...	Add a new Virtual Printer Port.
	Update...	Update the selected virtual printer port.
	Delete...	Delete a virtual printer port.
<b>Job</b>	Cancel	Cancels a print job, unless it has been printed or is in error. If it has not yet completed printing, this action will prevent it from being printed in most cases, depending on the print server (see side note).
	Delete	Deletes the selected print job(s). Documents that are being printed cannot be deleted until they have finished successfully, failed, or have been manually cancelled by the user.
	Reprint	Reprint the selected print job(s). The currently selected print jobs are rescheduled for printing. <i>INTELLIscribe</i> will then spool the print job to the printer again, even if it failed or did not print the first time through.
	Properties...	Displays the job properties for the selected document by displaying the Properties dialog.
<b>Destination</b>	Query Status...	Queries a printer for information. Queries a destination for availability and other useful information. The query used is specific to the protocol configured for the destination. Information is returned by the printer or print server and can be copied to the clipboard.

---

**Import...:** System administrators may use this to simplify the setup of *INTELLIscribe* for multiple computers.

---

**Export...:** Use the Export command to:


- Quickly configure several computers with the same virtual printer port configuration.
  - Backup the configuration for use in a catastrophic event such as a computer crash.
- 

---

**Job Menu:** You must have a document selected in the Print Jobs tab for the Job menu commands to be available. You can also access this menu by right-clicking any of the print jobs in the Print Job tab.

---



Menu	Command	Description
	Update	Allows modification of destinations. Opens the Virtual Printer Port Wizard and allows you to modify, remove, or add destinations.
	Set as Default	Sets the selected destination as the default destination. This option is only available for ports with the port policy <i>Service Location Protocol (SLP)</i> . Subsequent print jobs immediately print to the default destination without user intervention. This option can be turned on or off with this command.
	Attributes	Some SLP destinations may have further information about the destination and can be viewed with this command. The Attributes dialog is opened if information is available; otherwise a warning message is displayed.
<b>Log</b>	Open Log...	Allows you to select the log file you want to view in the Log tab. The log files are named by date.
	Today's Log	Allows you to quickly view today's log in the Log tab.
	Refresh	Refreshes the log being displayed in the Log tab.
<b>View</b>	Toolbar	Hides or displays the Toolbar.
	Status Bar	Hides or displays the Status bar.
	Options...	Displays the Global Options dialog. In this dialog you can change the general log and program options, job options, and SLP options.
<b>Help</b>	Help Topics	Displays the INTELLIscribe Help file. You can access instructions and other types of reference information in the Help file.
	License Manager	Opens the Brooks License Manager.
	About INTELLIscribe	Displays the About INTELLIscribe box, which shows the user name, company, serial number, version of INTELLIscribe, and other information.
<b>Task Tray</b> 	Open Exit INTELLIscribe	Place the mouse cursor over the task tray icon to see the name of the product or the status of print jobs if they are being printed. You can restore INTELLIscribe by double clicking the task tray icon. Right-click the icon and select Open to open the INTELLIscribe window, or select Exit INTELLIscribe to close the user interface completely.

File Menu Commands Table







---

**License Manager:** Brooks License Manager allows you to check your license status, see the number of days remaining in trial, see the serial number, and activate the license.

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## B. Toolbar

The toolbar is displayed by default or by selecting *Toolbar* from the *View* menu. To hide the toolbar, uncheck *Toolbar* from the *View* menu. The following table describes the function of each button:

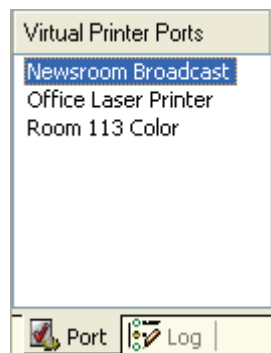
Button	Function
	Cancels printing the selected job if not already printed.
	Deletes the print job from the list.
	Reprints the currently selected print job(s).
	Displays the job properties for the selected job.
	Accesses the Brooks License Manager.
	Displays the application About dialog.

*Toolbar Buttons Table*

## C. Virtual Printer Port Tab

The Virtual Printer Ports tab contains a list of the printer ports that have been configured. Selecting a virtual printer port displays the print jobs that have recently printed or are waiting in the Print Jobs tab.

- If you right-click a virtual printer port, the Port menu will be displayed allowing you to update the port or create a new port. This menu also provides the ability to delete the selected port.
- Click the Destinations tab to see the destinations associated with the selected port. You can quickly view information about a destination using this view.

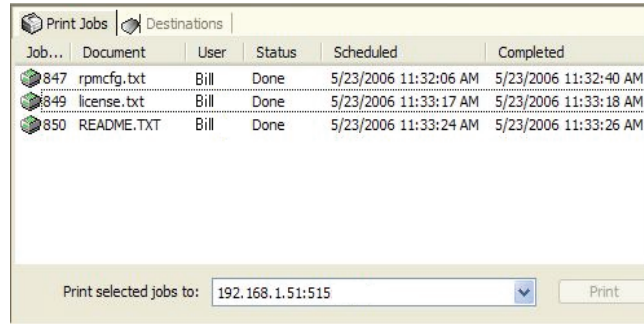


*Virtual Printer Ports Tab*



## D. Print Jobs Tab

The Print Jobs tab contains a list of print jobs that INTELLIscribe has printed, is currently printing, has failed to print, and so on for the currently selected virtual printer port.



Print Jobs Tab

The Print Jobs tab also displays the job identification number, job name, user who printed the job, status, time scheduled, and time completed for each print job. You can sort the list by any column.

At the bottom of the tab, the Print Selected Jobs To list allows you to print the selected print job(s) to the destination of your choice. When you click the Print button, the jobs are immediately scheduled to print to the destination selected in the list. This destination is displayed in the form of `host:port_number:queue`. The `:queue` is not always displayed, depending on the setup.

A small icon next to each print job represents the current status of the job. The following list explains what each icon represents:

Icon	Meaning
	The status has not been decided.
	The job is waiting but has not been scheduled.
	The job is waiting to print and has been scheduled.
	The job is currently printing.
	The job has an error and was not printed.
	The user has cancelled printing this job.
	The print operation completed successfully.

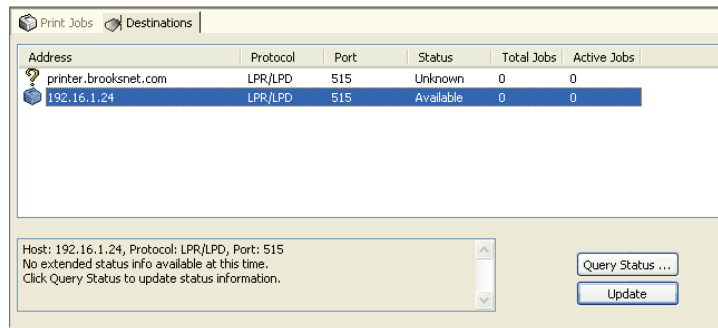
Print Jobs Tab: Icon Meanings



## E. Destinations Tab

The Destinations tab displays the destinations associated with the selected port.






From this tab, you can query the status of the selected destination. The information returned from the destination depends on which protocol is used, LPR/LPD or HP JetDirect.



*Destinations Tab*

Clicking the Update button opens the Virtual Printer Port Wizard of the associated port to the Add Destinations step of the Wizard, allowing you to add, remove, or modify the destinations of the virtual printer port.

A small icon next to each destination represents the current status. The icons and the status are as follows:

Icon	Meaning
	The current state of the destination is unknown
	The destination is currently available
	The destination is busy or is not responding
	The destination is currently being tested
	An error has been detected in the destination

*Destinations Tab: Icon Meanings*



## F. Status Bar

The status bar is displayed at the bottom of the INTELLIscribe window. To display or hide the status bar, Select *Status bar* from the *View* menu.

The status bar displays relevant messages when importing or exporting configuration files or when dealing with SLP printers.

**Resize Window:** The INTELLIscribe window can be resized by dragging the lower right-hand corner of the status bar.

## G. Log Tab

The Log tab displays events logged during the course of operation. INTELLIscribe logs a number of messages during startup and a number of messages for each job that is captured or received. Different processes in INTELLIscribe also log events, such as the process that monitors the Windows Print Manager for incoming print jobs and the ISendFile command line interface.

Timestamp	Severity	Type	Name	Id	Message
10:27:23.763	Info	Socket	1	1	Sent 8192 bytes
10:27:23.779	Info	Socket	1	1	Sent 8192 bytes
10:27:23.794	Info	Socket	1	1	Sent 1247 bytes
10:27:23.810	Info	Socket	1	1	Sent 1 bytes
10:27:23.826	Info	Socket	1	1	Received 1 bytes
10:27:23.841	Info	Socket	1	1	Connection closed on local port 516
10:27:23.841	Info	Scheduler.JobE...	JobExec	1	Job 'Office Laser Printer00000001-1.tmp;' successfully pri
10:27:39.200	Info	JobManager.Jo...	JobManager	1	Print job 'Office Laser Printer00000001-2.tmp;' received fr
10:27:39.747	Info	IScheduler	IScribeScheduler	1	Starting job 'Office Laser Printer00000001-2.tmp' with dest
10:27:39.919	Info	Socket	2	2	Connecting to '127.0.0.1' port 515
10:27:39.934	Info	Socket	2	2	Connection established on local port 517
10:27:39.934	Info	protocol	Lpd.Print	2	Sending 'Receive a printer job' command
10:27:39.950	Info	Socket	2	2	Sent 5 bytes
10:27:39.950	Info	Socket	2	2	Received 1 bytes

Log Tab

When INTELLIscribe stops printing, or has attempted to print something and failed, you should review the warning or error messages in the Log tab, as they may assist in resolving the issue. When contacting technical support, you may be asked to submit your log file for review. The log file is stored on disk in the Logfiles folder.

Each message contains a timestamp, severity, type, name, message ID, and message. An icon next to each message shows the severity of the message:

Icon	Meaning
	The message is just providing information.
	A warning message that may require attention.
	An error has occurred.

Log Tab: Icon Meanings



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## Appendix I: Brooks License Manager

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### Activation Instructions

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**Note:** You must be logged on as an administrator to install and activate our software

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The Brooks License Manager is used to view the status of your license and to activate the software after purchase. If the computer on which the software is installed has Internet access, Internet Activation should be used. Otherwise, use Manual Activation.

#### *Internet Activation*

Internet Activation requires the invoice or sales receipt number and auth code to activate the software.

- 1 Open the Brooks License Manager from the Program group in the Start menu. Or, choose License or License Manager from the software Help menu.
- 2 Click the Activate Now button to start the Activation Wizard. At the Introduction page, click Next.
- 3 Enter or modify the username and company for this license. The username must be unique if your company has purchased more than one license. Click Next.
- 4 Select Internet Activation and click Next.
- 5 Enter the invoice or sales receipt number and the auth code in the fields provided and click Next.
- 6 Verify the proxy server settings are correct. Note that the Brooks License Manager does not support proxy servers which require authentication. Click Finish.
- 7 If the activation is successful, the completion page will display the following message: Operation Complete.
- 8 If the software was not activated, you will receive a message as to why the attempt was not successful.
- 9 Please print the license for your records.

#### *Manual Activation*

If the computer does not have Internet access, Manual Activation should be used. To obtain the activation key and support expiration date, see Getting the activation key below.

- 1 Open the Brooks License Manager from the Program group in the Start menu. Or, choose License or License Manager from the software Help menu.
- 2 Click the Activate Now button to start the Activation Wizard. At the Introduction page, click Next.
- 3 Enter or modify the username and company for this license. The username must be unique if your company has purchased more than one license. Click Next.
- 4 Select Manual Activation and click Next.



- 5 Edit the Support Expiration Date to reflect the date which the Software Upgrade Maintenance (SUM) expires. This date is one year from the date of purchase and is listed on the sales receipt or invoice. Click Next.
- 6 Enter the activation key obtained using one of the methods below and click Finish.
- 7 If the activation is successful, the completion page will display the following message: Operation Complete.
- 8 If the software was not activated, you will receive a message as to why the attempt was not successful.
- 9 Please print the license for your records.

### ***Obtaining the Activation Key***

After obtaining the activation key using these instructions, you need to activate the software using [Manual Activation](#).

- 1 Open the Brooks License Manager from the Program group in the Start menu. Or, choose License or License Manager from the software Help menu. Note the serial number in the License Status tab.
- 2 Connect to the Internet and click [here](#). In the form, enter the information:
  - a. **Serial number** The number generated during installation which can be found by opening the Brooks License Manager.
  - b. **Product** From the drop down list select the name of the product purchased.
  - c. **Quantity** The default quantity of "-1" should be used. This information is only editable when activating modules.
  - d. **Username** Enter a unique identifier for the license. We suggest using the computer operator's name, position, or the computer name (i.e. Jane Smith, West Coast Sales Office, Server A).
  - e. **Company name** The name of the company where the software resides.
  - f. **Invoice or sales receipt number** Invoice or sales receipt number provided via email or fax to the purchasing agent.
  - g. **Auth code** Unique code provided via email or fax to the purchasing agent.
- 3 Click Submit. If successful, a page will be displayed with the correct activation key and support expiration date.
- 4 Follow the Manual Activation Process listed above.

### ***Software Reinstallations***

Because a unique serial number is generated on each computer, Brooks License Manager allows you to activate the software using the same method provided you are installing it on the same computer.

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**Note:** If your Software Upgrade Maintenance (SUM) is current at the time a new version is released, you can also upgrade to the new version using the same method.

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If the software is installed on a different computer, please contact us to obtain updated manual activation information.

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## Appendix II: Common Messages and Errors

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### *Printer Busy Notification*

This message will occur when printing if the host is unavailable or is busy. If received, check the printer to see if it is turned on, and that there are no jobs currently being printed. This notification can be enabled or disabled using the View > Options command.

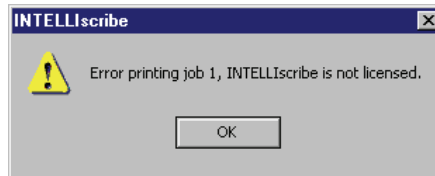
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**Note** INTELLIscribe attempts to determine why the printer or print server is busy and displays this information in the dialog.

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### *License Expired Notification*

When INTELLIscribe is installed, a 21-day trial period begins, even if you have already purchased the software. INTELLIscribe must be activated after the 21-day trial, otherwise INTELLIscribe displays this notification and the print job fails.



*License Expired Error*

After purchasing INTELLIscribe, activate the software. Detailed activation instructions can be found on our [website](#). If you have not yet purchased, you can do so on our [website](#).

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**Note** The Brooks License Manager is used for license management and software activation. Further information on can be found in [Appendix I: Brooks License Manager](#)

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## Appendix III: Service Location Protocol (SLP)

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### What is SLP?

The Service Location Protocol (SLP) is an IETF standard protocol that allows applications the ability to discover the existence of services, such as printers, on a network. SLP can also be used to find the location and configuration of services, reducing the amount of technical knowledge and training required for end users. Traditionally, each computer on a network requires manual configuration when services are added, removed, or modified.

SLP is described in greater detail in the Request for Comments (RFC) listed below. A minimum implementation requires a client, which is called a *User Agent* in SLP terminology, and a server which is called a *Service Agent*. The *Service Agent* broadcasts the existence, location, and configuration of a particular service. The *User Agent* requests information from the *Service Agent*, or if implemented, a *Directory Agent*. A *Directory Agent* acts as a centralized repository for service location information.

INTELLIscribe is a *User Agent*. Information about printers that support the LPR/LPD protocol is located and a destination is added automatically with the information found. When a printer is removed from a *Service* or *Directory Agent's* configuration, INTELLIscribe automatically removes the destination.

### Request for Comments

- [RFC 2165](#) - Service Location Protocol, Version 1
- [RFC 2608](#) - Service Location Protocol, Version 2
- [RFC 2609](#) - Service Templates and Service Schemes
- [RFC 2610](#) - DHCP Options for Service Location Protocol
- [RFC 2614](#) - An API for Service Location Protocol

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#### *user agent*

A software application that listens for information about network services from a *Directory Agent* or *Service Agent*.

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#### *service agent*

An SLP software application used to broadcast the existence of network services.

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#### *directory agent*

An SLP term that describes a centralized repository for service location information.



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## Appendix IV: What's New?

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### Version 4.0

<b>Features</b>	<ul style="list-style-type: none"><li>• Added support for running on Windows Vista</li><li>• Cluster environment support</li><li>• Shared Print Activator module is now included as a standard feature</li><li>• During installation, you can select where shortcut icons are created</li><li>• Added the ability to upgrade from previous versions (3.2.0.42 and 3.2.0.60)</li></ul>
<b>Resolved Issues</b>	<ul style="list-style-type: none"><li>• Resolves an issue where print jobs were not properly deleted</li></ul>



## Version 3.2

<b>Features</b>	<ul style="list-style-type: none"> <li>• A new column has also been added to the Print Jobs table to display which user printed the job.</li> <li>• Timeout support has been added to close a connection after a specified period of inactivity. This period is configurable in the Virtual Printer Port Wizard.</li> <li>• Print jobs can be dragged from one INTELLI<i>scribe</i> virtual printer port to another virtual printer port. This allows you easily to send a print job that has already been scheduled for one port to another port for printing.</li> <li>• Print jobs can be dragged from INTELLI<i>scribe</i> to other applications that support drag and drop (e.g. Notepad, Outlook, and so on). For example, dragging a print job to an editor allows you to view the print job file; dragging to an Outlook email attaches the print job to the email. Useful for troubleshooting.</li> <li>• You can specify how many days to store log files before they are removed.</li> <li>• You can specify the directory where INTELLI<i>scribe</i>'s Spool directory is located. The Spool directory is where INTELLI<i>scribe</i> archives print jobs. This will allow you to better utilize disk space.</li> <li>• You can specify the directory where INTELLI<i>scribe</i>'s log files are stored. This will allow you to better utilize disk space.</li> <li>• You have the option to turn off the splash screen on startup.</li> </ul>
<b>Resolved Issues</b>	<ul style="list-style-type: none"> <li>• The INTELLI<i>scribe</i> user interface has been updated to be more responsive with large sets of data.</li> <li>• The service has been updated to resolve issues with destinations becoming stuck in a busy state, preventing jobs from printing.</li> <li>• Some log messages were not being displayed properly in INTELLI<i>scribe</i>.</li> <li>• Resolved various issues when dealing with network shares.</li> <li>• INTELLI<i>scribe</i> has better recovery from jobs cancelled at the printer: INTELLI<i>scribe</i> will not attempt to reprint jobs.</li> <li>• Using JetDirect, INTELLI<i>scribe</i> recovers and the printer does not stay in a Busy state when a job times out.</li> </ul>





## Version 3.1

<b>Features</b>	<ul style="list-style-type: none"><li>• Print jobs can be reprinted to a destination chosen by the user. This allows failed print jobs to be reprinted to only the destinations that failed, or printed again to a destination of choice.</li><li>• An option has been added that allows users and administrators the ability to specify a number of times a print job is retried before it fails.</li><li>• Support for the Service Location Protocol (SLP) offers easier setup. SLP printers are automatically recognized and available for printing within seconds. Users no longer need to know the hostnames of network printers.</li><li>• Testing has shown that INTELLIscribe transmits information much faster than before!</li></ul>
<b>Resolved Issues</b>	<ul style="list-style-type: none"><li>• If a destination was in an unknown state, jobs sent to it were getting stuck and did not print. This has now been resolved.</li><li>• Sometimes when printing, a destination would get stuck in a busy state before the print job would start printing. The jobs are no longer getting stuck, but print right away.</li><li>• Broadcast printing to LPR/LPD destinations using the standard or strict "Port Restriction" setting would sometimes fail when attempting to bind to a source port.</li><li>• When a user without Administrator privileges attempted to print, occasionally an error was displayed. On other occasions, the print job would not be added to INTELLIscribe.</li></ul>



## Version 3.0

<b>Core</b>	<ul style="list-style-type: none"> <li>• Runs as a service on Windows NT/2000/XP platforms.</li> <li>• Export feature now saves configurations in XML.</li> <li>• Import feature now supports XML and configuration files from previous versions.</li> <li>• Configuration is stored globally rather than requiring a separate configuration for each user.</li> <li>• Job Deletion feature can now remove failed jobs.</li> <li>• Added two new policies to improve destination management: Round Robin and Destination Balancing.</li> <li>• Scheduling of print jobs is faster and more efficient.</li> <li>• TCP/IP transport now utilizes new features of WinSock 2 for greater efficiency.</li> <li>• Events are now stored in standard CSV files. Log can easily be viewed and sorted in applications supporting this format.</li> <li>• Windows can print simultaneously to multiple Virtual Printer Ports, improving speed and throughput.</li> <li>• Better integration with the Windows Print Manager.</li> </ul>
<b>User Interface</b>	<ul style="list-style-type: none"> <li>• New style menus and toolbars.</li> <li>• Log viewer provided for troubleshooting print jobs and destinations.</li> <li>• Destination Window added to allows users to update, view and query information about the destinations.</li> <li>• Enhanced the Virtual Printer Port Wizard.</li> </ul> <p>Context sensitive help added, allowing users to easily find a desired topic.</p>
<b>Brooks License Manager</b>	<ul style="list-style-type: none"> <li>• License Wizard enhancements ease administering license.</li> <li>• Supports advanced products and features.</li> <li>• Enhanced support for license reinstallation.</li> <li>• Internet activation can connect through a proxy server/firewall.</li> </ul>
<b>Resolved Issues</b>	<ul style="list-style-type: none"> <li>• Files larger than 2 GB can now be printed, previously an error was reported.</li> <li>• Can print data from Lotus Notes even when attachments are included.</li> <li>• Eliminated all ISTMan.exe errors.</li> <li>• Jobs no longer get "stuck", they finish printing or fail.</li> <li>• Broadcast feature now works to more destinations, previously more than 40 or 50 destinations result in errors.</li> <li>• Multiple jobs can now be properly selected; previously the entire print job view was refreshed, canceling out the selection.</li> </ul>