

# PaperVision® Capture Installation and Getting® Started Guide

Version 85.0



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# CHAPTER 1

## Introduction

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## Welcome

Welcome to the *PaperVision Capture Installation Guide*. This guide will walk you through the installation process and the minimum set up needed to get started with PaperVision Capture.

This guide is written for IT professionals who are familiar with software installations and configurations. Additionally, users of this installation guide should be familiar with the Microsoft® Windows operating system and basic database administration.

## Get Product Support

Digitech Systems takes great pride in providing software that is simple to use, feature-rich, and flexible in architecture and integration capabilities. If you experience any difficulty, please contact us toll free at (877) 374-3569 or direct at (402) 484-7777 to experience our legendary customer service. Additionally, you may contact us at [support@digitechsystems.com](mailto:support@digitechsystems.com). Our technical support staff is available to serve you between the hours of 8:00 AM and 6:00 PM Central Time.

Digitech Systems' product features and enhancements are driven by you, our customer. If you have an idea for a future product feature or enhancement, please send an e-mail to [dev@digitechsystems.com](mailto:dev@digitechsystems.com).

In addition to our legendary technical support staff, we also offer the following resources to help you answer questions and resolve issues.

- **MyDSI** - MyDSI is an interactive tool for all Digitech Systems customers. Log in to MyDSI at <http://mydsi.digitechsystems.com> to download product updates, license purchased software, view support contract renewals, and check the status of your software support cases and requests.
- **User Forums** - Log in to the User Forums at <http://forums.digitechsystems.com> to exchange answers and ideas with other users in our moderated community.
- **Knowledge Base** - Log in to search our extensive Knowledge Base at <http://kb.digitechsystems.com> for articles on all Digitech Systems products.
- **Documentation** - For documentation describing the use and features of the PaperVision Capture Administration Console, refer to the *PaperVision Capture Administration Guide*. For documentation describing the use and features of the PaperVision Capture Operator Console, refer to the *PaperVision Capture User Guide*. To access the online help and manuals from the Administration and Operator Consoles, click the **Help** menu.

# System Requirements

This content describes the minimum software and hardware requirements for PaperVision Capture.

## Minimum Software Requirements

The following table shows the minimum software requirements for PaperVision Capture and its optional components.

Software	Version
Operating Systems (Client)	Windows® 7, 8, 8.1, and 10 (32- and 64-bit operating systems are supported)
Operating Systems (Server)	Windows® Server 2008 R2, 2012, and 2012 R2
Microsoft® .NET Framework	Version 4.0 or later (included on the installation media)
Windows Installer	Version 4.5 or later (included on the installation media)
Microsoft® SQL Server	SQL Server 2008 or later <b>NOTE:</b> Optionally, you can install Microsoft SQL Server 2008 R2 Express Edition (included on the installation media)

## Minimum Hardware Requirements

Most enterprise software is capable of operating on a basic hardware configuration that includes a current processor and 4 GB of memory for desktops and 8 GB of memory for servers. However, each organization and their intended use of PaperVision Enterprise are unique. The intended workload, (including the maximum number of users, and the quantity and types of operations performed within a specific periodicity, etc.) coupled with security and redundancy requirements will dictate the hardware requirements for each implementation.

PaperVision Capture has the distinct capability to scale both up and out. You can configure most of the functions performed by PaperVision Capture to take advantage of powerful hardware configurations, such as those with many processor cores and hundreds of GB of memory (scaling up). Additionally, PaperVision Capture can spread its processing requirements across numerous computers (scaling out).

PaperVision Capture products are designed and tested for specific operating systems, not hardware environments. Numerous customers successfully run PaperVision Capture in virtual environments, including VMware® and Microsoft® Hyper-V. While this technology has matured over the years, issues have occurred with common software (other than PaperVision Capture) not operating properly or efficiently because of the virtual environment. In the cases that Digitech Systems' Technical Support has witnessed, the issue was with the virtual environment, not our software.

If our technical support believes that the hardware environment (including virtual environments) is contributing to an operational or performance issue, they may request that you ensure the issue exists in a different (or non-virtual) environment.

If you intend to use a virtual environment for your PaperVision Capture implementation, carefully consider the implications of running in a shared environment. Remember, you are not just sharing processors and memory. You are also sharing network and disk resources with the other virtual environments on the same hardware.

## Sharing a Database with PaperVision Enterprise

If you want to share a common database between PaperVision Capture and PaperVision Enterprise, PaperVision Enterprise R60 or later must be installed.

## Supported Scanners

PaperVision Capture supports more than 300 ISIS-compatible scanners. If you need additional scanner drivers, please contact Digitech Systems' Technical Support at [support@digitechsystems.com](mailto:support@digitechsystems.com) or by phone at (877) 374-3569. If the driver is available, our support personnel will help you get it.

Alternatively, PaperVision Capture also supports the use of TWAIN scanners. The use of TWAIN scanners is generally intended for extremely low-volume scanners, as ISIS drivers are available for most scanners on the market.

## Terms You Should Know

This section contains definitions for terms that are used throughout the documentation and online help. Knowing this terminology will help you use the product and its documentation more effectively.

### Batch

A batch is a collection of documents and their associated index name-value pairs and statistics that are moved as a logical unit of work through a job.

### Batch Priority

Batch priority establishes the order for the:

- Appearance of batches awaiting ownership in the PaperVision Capture Operator Console
- Processing of batches by the Automation Service

The PaperVision Capture administrator assigns values that are used to calculate batch priority

### Detail Sets

Detail sets expand the capabilities of standard index fields because they define “many-to-one” relationships, which allow multiple sets of field data to reference a single document. In a many-to-one relationship, an index field contains a value that references another field or set of fields that contain unique values.

### Document

A document is the equivalent of a file folder within a filing cabinet. A document holds all of the pages for a given set of index values.



## Forms Magic Worker

The Forms Magic Worker is a required service that processes tasks within Forms Magic. Only one Forms Magic Worker can be installed per machine, but multiple workers can be installed system wide for scalability. The correct worker, either 32- or 64-bit, will be automatically selected during installation. FM Worker servers are load balanced to optimize performance.

## Forms Magic Communication Server

The Forms Magic Communication Server manages communications between all clients and Forms Magic Workers. There can be only one Forms Magic Communication Server per system-wide installation.

## Forms Magic Project

A Forms Magic Project is a collection of form types, classification information, and extraction data. Forms Magic requires at least one Forms Magic Project, but you can create as many as you need.

## Image

An image is a visual representation of a picture or graphic, such as an electronic file with the extension bmp, jpg, or tiff.

## Index

An index is a value that users apply to a document for reference and retrieval.

## Job

A job is a defined process comprised of one or more job steps through which batches are processed. At a minimum, each job must contain a start step. Each job is unique by name within an entity.

## Job Step

A job step is an automated or manual operation that is performed on a batch. Manual job steps are performed by assigned users through the PaperVision Capture Operator Console; automated job steps are completed by the PaperVision Capture Automation Service, and require no user intervention.

## Master Batch Repository

The Master Batch Repository is the centralized storage area where PaperVision Capture stores all captured images. When installing PaperVision Capture in an environment containing multiple PaperVision Capture Gateways or PaperVision Capture Automation Servers, this location should be a network accessible location (for example, `\\SERVER\SHARE`).

## Page

One or more images (files with extensions bmp, jpg, or tiff) comprise a single page within a document. For example, a page can include the originally captured image and a manipulated version of the image after noise removal.

## PaperVision Capture Administration Console

The PaperVision Capture Administration Console provides administration and job configuration capabilities.

## PaperVision Capture Automation Service

The PaperVision Capture Automation Service is a Microsoft® Windows service that performs automated tasks and batch processing at specified time intervals. Examples of work performed by the PaperVision Capture Automation Service include the compilation of statistics when an operator completes a batch and the processing of automated job steps. Multiple Automation Services can be installed on distinct machines or multiple PaperVision Capture Automation Service processes may be configured to run on the same machine.

## PaperVision Capture Data Transfer Agent Service

The PaperVision Capture Data Transfer Agent Service is a Microsoft® Windows service that moves batches in local temporary batch repositories to/from the Master Batch Repository.

## PaperVision Capture Gateway Server

The PaperVision Capture Gateway Server is an application server that enables communication between PaperVision Capture modules and provides access to databases and the Master Batch Repository in distributed deployment scenarios.

## PaperVision Capture Operator Console

The PaperVision Capture Operator Console provides scanning, indexing, and batch processing capabilities.

# CHAPTER 2

## Installation Information

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## Important Installation Prerequisites

Before you install PaperVision Capture you must:

- Determine what installation configuration you want to use. There are multiple installation options for PaperVision Capture. See "Installation Configurations" on page 51 for more information about possible deployment scenarios.
- Ensure that Microsoft® SQL Server or Microsoft® SQL Server Express Edition is installed and configured.
- Ensure that Microsoft® .NET Framework 4.0 or later is installed on the machine.



### I M P O R T A N T

The following items impact the performance and functionality of PaperVision Capture. Read this information before installing PaperVision Capture.

---

- When installing PaperVision Capture in a distributed, multiple-server environment, you must accurately maintain the system time (clock) for all machines. Otherwise, PaperVision Capture will not work as designed.
- If real-time anti-virus software will scan the same files to which PaperVision Capture will write information, the overall performance of PaperVision Capture may be adversely affected.
- PaperVision Capture must be installed using administrative privileges.

## Installation and Setup Wizard

The installation and setup of PaperVision Capture requires that you follow the instructions on every screen. You can click the **Back** or **Next** buttons to move backward and forward through the screens. You can click the **Cancel** button to exit and close the Installation or Setup Wizard.

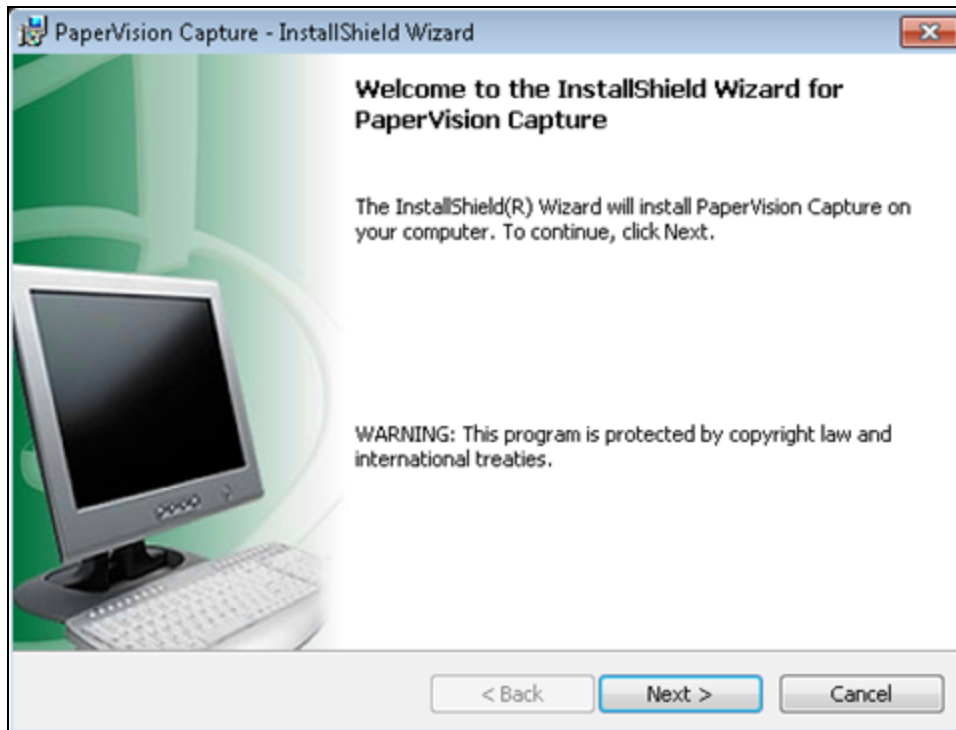
## Install PaperVision Capture

Before installing PaperVision Capture, review and complete the "Important Installation Prerequisites" above. The following instructions describe a full installation of PaperVision Capture.

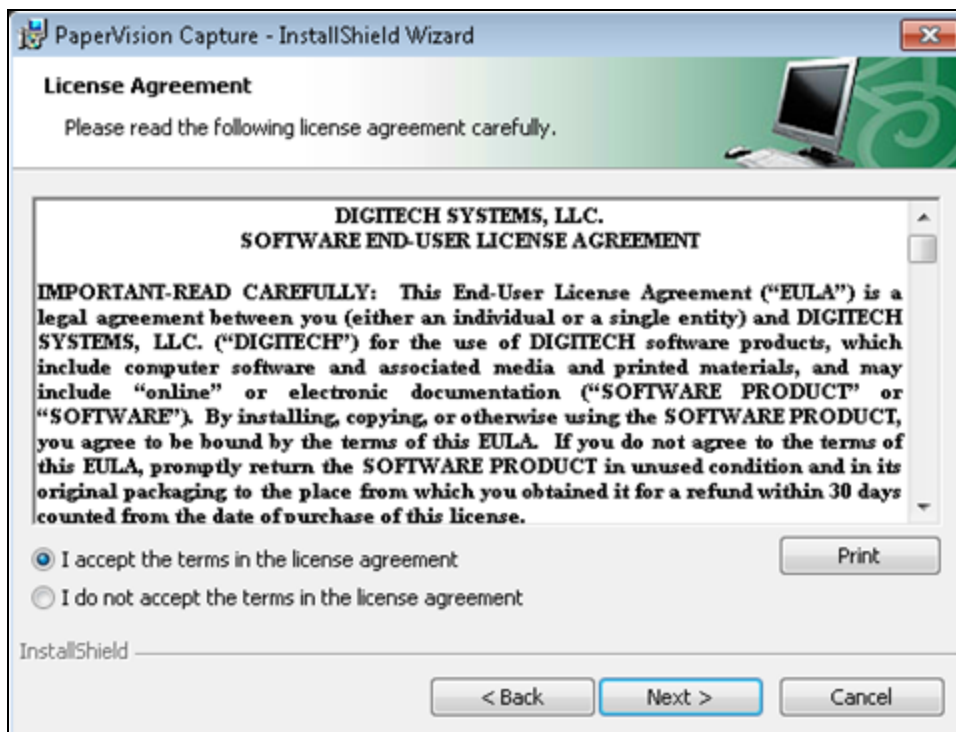
### To install PaperVision Capture

1. From the PaperVision Capture installation DVD, open the **PaperVision Capture.msi** file.

After a few moments, the **Welcome to the InstallShield Wizard for PaperVision Capture** dialog box appears.



2. Click **Next**. The **License Agreement** dialog box appears.



3. If you accept the terms of the End-User License Agreement, click **I accept the terms in the license agreement**. If you decline the terms, the installation will terminate.

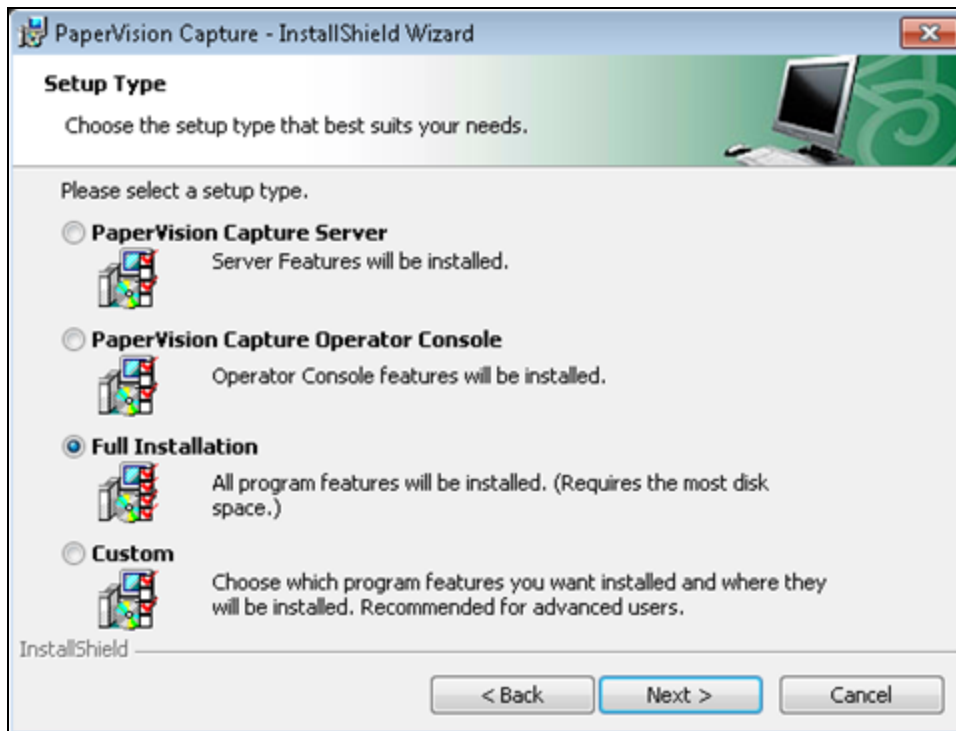


### NOTE

To print a hard copy of the End-User License Agreement, click **Print**.

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4. Click **Next**.



5. Click one of the listed setup types. A description of each setup type follows, but this document describes the steps only for the **Full Installation** setup type.
  - Selecting **PaperVision Capture Server** installs the PaperVision Capture Automation Service, PaperVision Capture Gateway Server, and PaperVision Capture Setup Tool.
  - Selecting **PaperVision Capture Operator Console** installs the PaperVision Capture Operator Console, Data Transfer Agent, and PaperVision Capture Setup Tool.
  - Selecting **Full Installation** installs all components of the PaperVision Capture Server, PaperVision Capture Operator Console, and the PaperVision Capture Administration Console.

- Selecting **Custom** (recommended only for advanced users) lets you select the individual components to install. When you select this option, and then click **Next**, the **Custom Setup** dialog box appears. In this dialog box, you can select a component, and its description and memory requirements appear in the **Feature Description** area on the right.

**N O T E**

When performing a custom installation, you can change the default installation location for the selected component by clicking **Change**, and then selecting a new destination folder.

To leave a component out of the installation, click the arrow to the left of the component, and then select **This feature will not be available**.

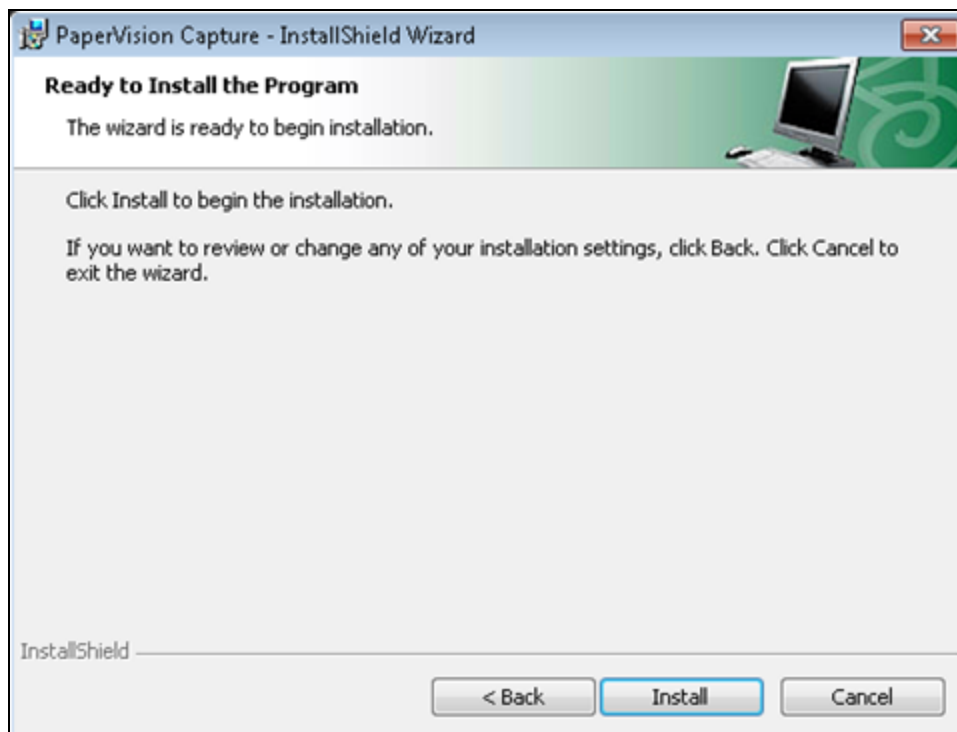
Click the arrow to the left of the component to access the following options:

**This feature will be installed on local hard drive.**

**This feature, and all subfeatures, will be installed on local hard drive.**

Both of these options will install the necessary components for a custom installation on the local hard drive.

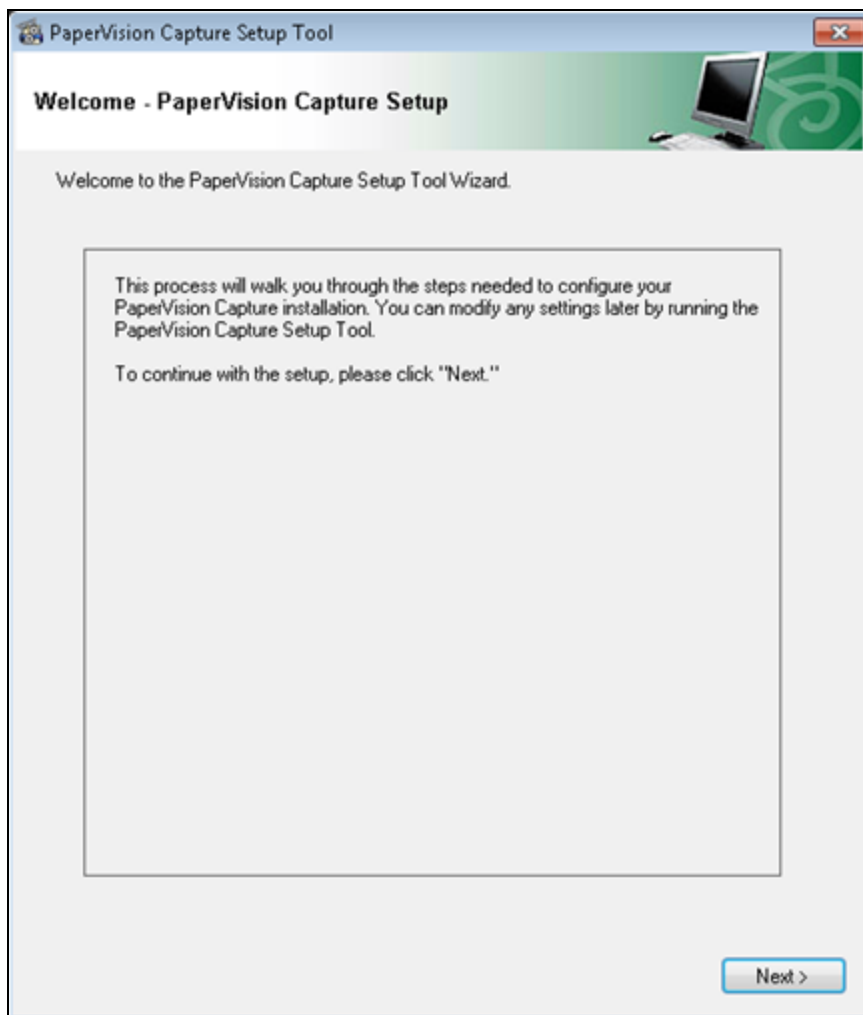
6. After selecting **Full Installation**, click **Next**. The **Ready to Install the Program** dialog box appears.



7. Click **Install**. A progress bar appears, and then the **Welcome - PaperVision Capture Setup** dialog box appears.
8. Go to "Configure PaperVision Capture" on the next page .

## Configure PaperVision Capture

The following instructions describe how to use the PaperVision Capture Setup Tool Wizard to configure your PaperVision Capture installation. To access this wizard, you should have completed the procedure under "To install PaperVision Capture" on page 12. You should see the following dialog box.



### To configure PaperVision Capture

1. In the **Welcome - PaperVision Capture Setup** dialog box, click **Next**. The **Gateway Connection Type** dialog box appears.



**PaperVision Capture Setup Tool**

### Gateway Connection Type

The Gateway communicates with backend services in a distributed environment. Please select whether to use a remote Gateway or a direct database connection.

☐ Remote Gateway

Gateway IP/Name:

Gateway Port:

☒ Database

Database Settings

Server IP/Name:

Database Name:

User Name:

Password:

Connection Type:

TCP/IP Port:

2. Select one of the following connection types:

- Select **Remote Gateway** to communicate with an existing PaperVision Capture Gateway Server in a multiuser, distributed environment.
- Select **Database** for non-distributed environments or when configuring a PaperVision Capture Gateway Server. This option configures a direct database connection.



**NOTE**

You must use a direct database connection to perform global administration.

If you also use PaperVision Enterprise, configuring it and PaperVision Capture to share the same database allows both applications to share entities, users, and groups.

3. Do one of the following:

- If you selected **Remote Gateway** in step 2, complete the following steps:
  1. In the **Gateway IP/Name** box, type either the IP address or the server name to be used for outgoing communications to the Capture Gateway Server.
  2. In the **Gateway Port** box, type the port number to be used for outgoing communications to the Capture Gateway Server.



### IMPORTANT

You must use a port number less than 65535 or services will fail to start.

---

3. Click **Next**. The **Data Transfer Agent General Settings** screen appears.
  4. Go to "Configure the Data Transfer Agent" on page 22 to continue.
- If you selected **Database** in step 2, complete the following steps:
    1. In the **Server IP/Name** box, type either the IP address or the server name where the database resides.
    2. In the **Database Name** box, type the name of the database.
    3. In the **User Name** box, type the user account for the SQL database.
    4. In the **Password** box, type the password for the user.

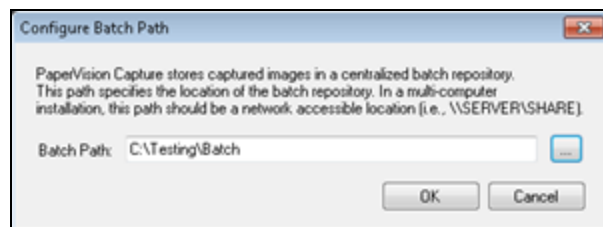


### NOTE

If you leave the **User Name** and **Password** boxes blank, the database connection will use Windows Authentication credentials. Entering a user name and password for the database will supersede the Windows Authentication credentials.

---

5. From the **Connection Type** list, select the type of connection used to access the database.
6. If you chose **TCP/IP** in the previous step, in the **TCP/IP Port** box, type the applicable port number.
7. Click **Next**. The **Configure Batch Path** dialog box appears.

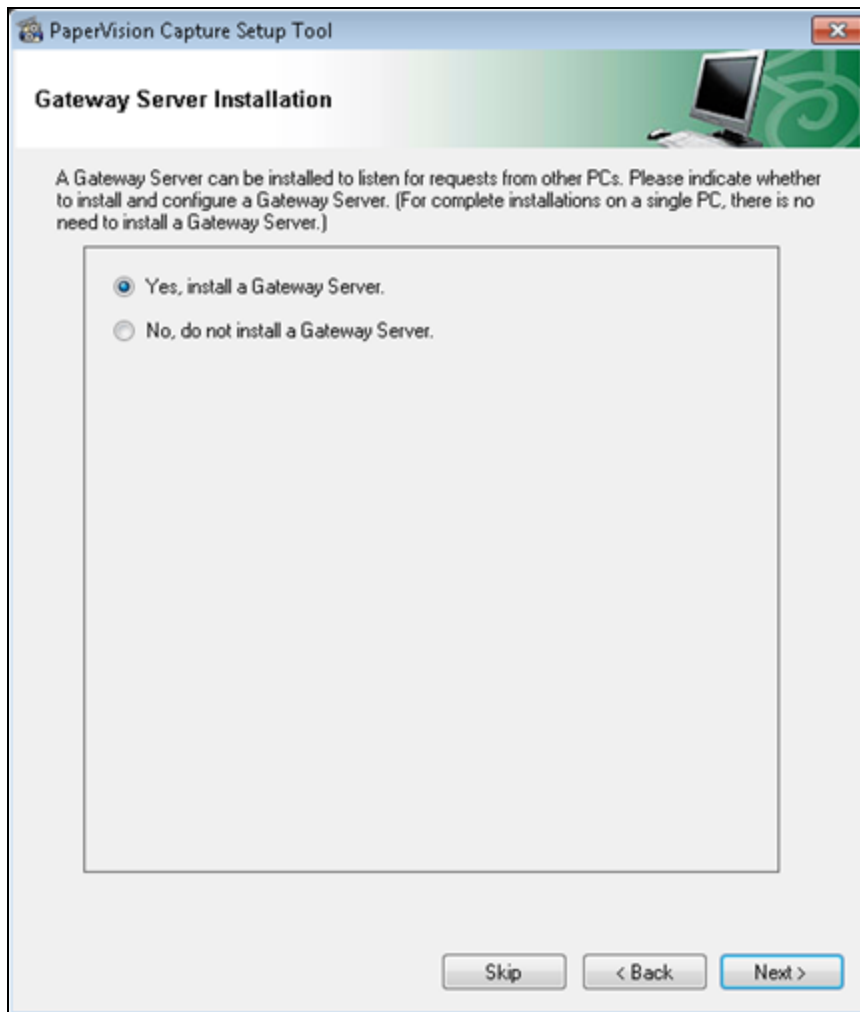


8. In the **Batch Path** box, type the path to the location for the batch repository, or click the ellipsis button to browse to, and then select the location. If the installation involves multiple computers, enter a network-accessible path such as **\\SERVER\SHARE**.
9. Click **OK**, and then click **Next**.

10. When the **Gateway Server Installation** dialog box appears, do one of the following:
  - If you want to install a gateway server, go to "Install a Gateway Server" below.
  - Click **No, do not install a Gateway Server**, and then click **Next**. Go to "Configure the Data Transfer Agent" on page 22.

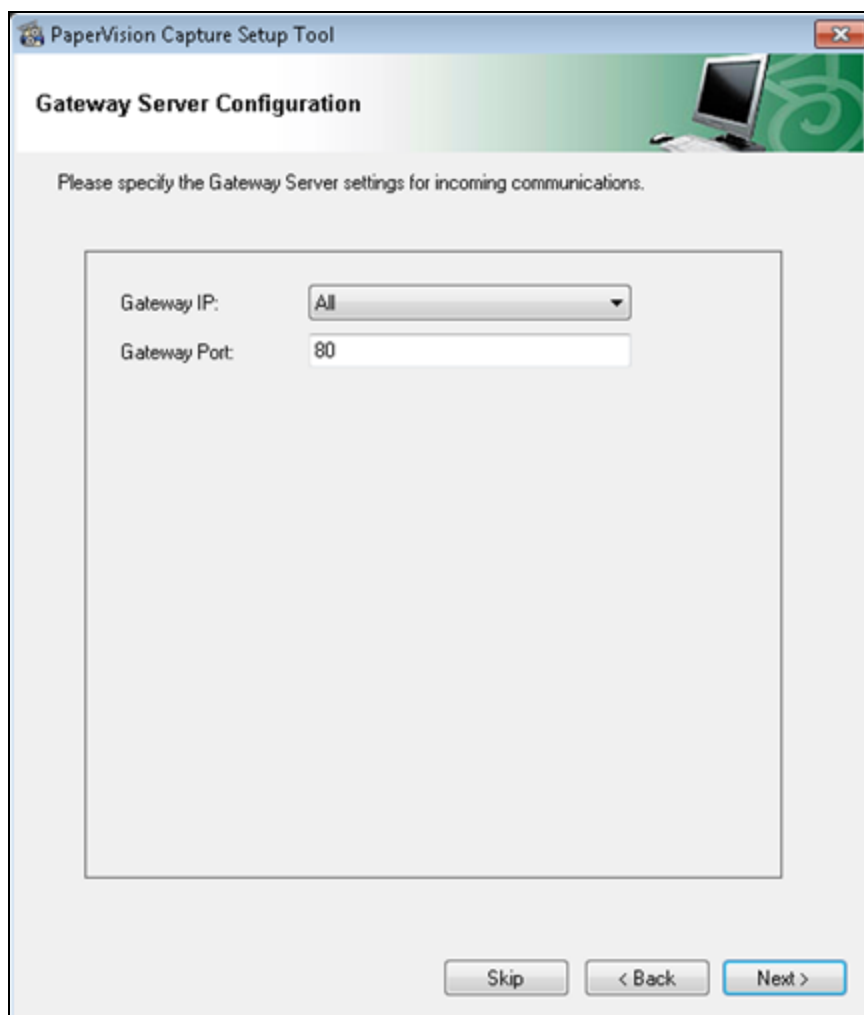
## Install a Gateway Server

You can install a gateway server to listen for requests from other computers. If you are doing a complete installation on a single computer, there is no need to install a gateway server. To access the following **Gateway Server Installation** dialog box, you should have completed the procedures under "To install PaperVision Capture" on page 12 and "To configure PaperVision Capture" on page 16.



### To install a gateway server

1. In the **Gateway Server Installation** dialog box, click **Yes, install a Gateway Server**, and then click **Next**. The **Gateway Server Configuration** dialog box appears.



2. From the **Gateway IP** list, select the address for incoming communications.
3. In the **Gateway Port** box, type a port number that is currently not in use.



#### **I M P O R T A N T**

The Internet Information Service (IIS) may already be using port 80. If the port you enter is already in use, an error will appear.

You must use a port number less than 65535 or services will fail to start.

4. Click **Next**. The **Gateway Service Settings** dialog box appears.

**PaperVision Capture Setup Tool**

**Gateway Service Settings**

Please indicate the account under which the Gateway Windows Service should execute.

Log on as:

☐ Local System Account

☒ This Account

User Name:

Password:

Confirm Password:

Note: when specifying an account, ensure that the account has the Windows "log on as a service" user right.

Skip < Back Next >

5. Do one of the following:
- Click **Local System Account**, and then click **Next**. Go to "Configure the Data Transfer Agent" on the next page.
  - Click **This Account**, and then go to the next step in this procedure.
6. In the **User Name** box, type the user name under which the Gateway Windows Service will run.



#### NOTE

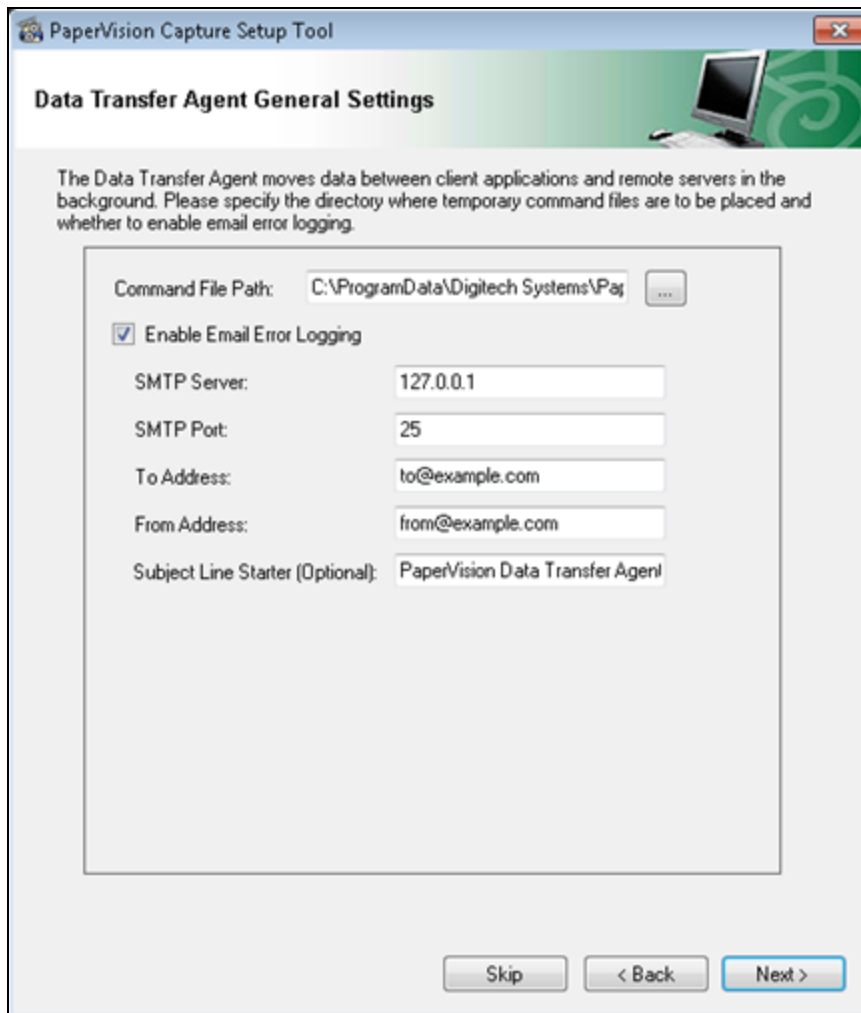
The specified account must have the Windows **Log on as a Service** user right enabled.

7. In the **Password** box, type the password for the user, and then type it again in the **Confirm Password** box.
8. Click **Next**. Go to "Configure the Data Transfer Agent" on the next page to continue.

## Configure the Data Transfer Agent

The Data Transfer Agent is a Microsoft® Windows service that moves batches in local temporary batch repositories to and from a master batch repository. The **Command File Path** stores temporary command files for the Data Transfer Agent. The default location should accommodate sufficient storage space to hold the temporary files. If an error occurs when the Data Transfer Agent is running, the error is logged to the Windows event log. You can choose to receive an email that contains the contents of the error message, the date and time it occurred, and the machine on which the error occurred.

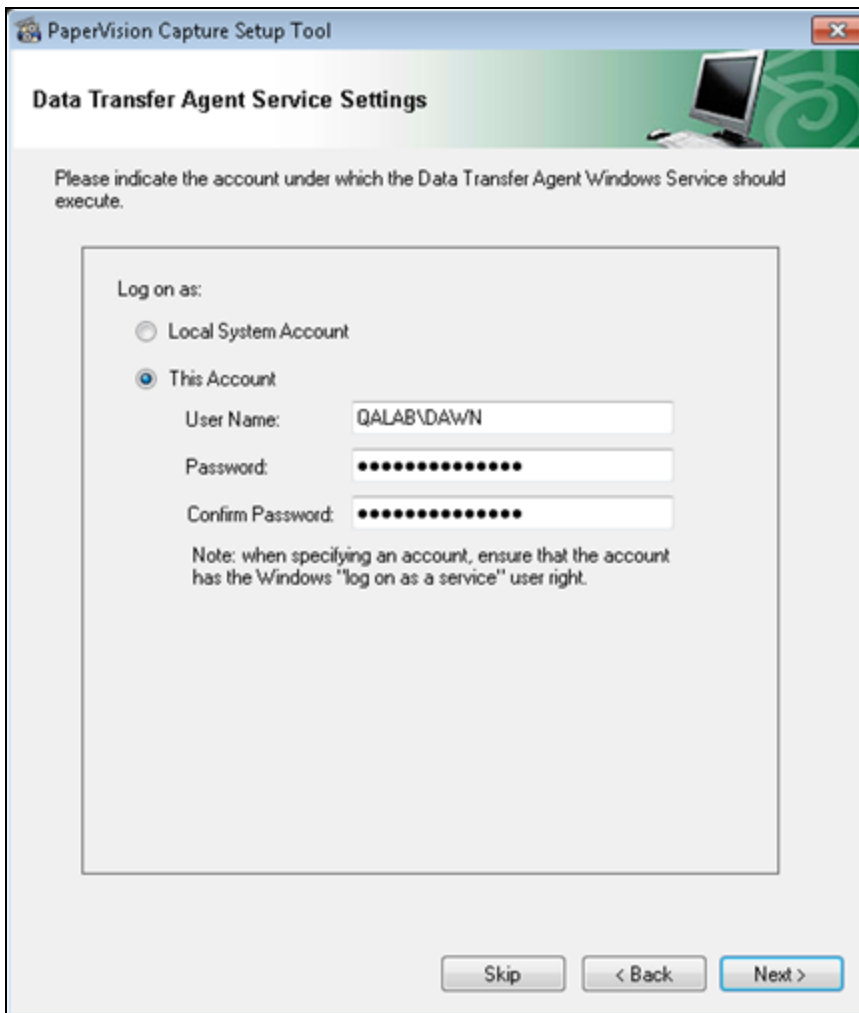
To access the following **Data Transfer Agent General Settings** dialog box, you should have completed the procedures under "To install PaperVision Capture" on page 12 and "To configure PaperVision Capture" on page 16.



### To configure the Data Transfer Agent

1. In the **Data Transfer Agent General Settings** dialog box, in the **Command File Path** box, specify the directory where temporary command files are to be placed. You can accept the default location, or click the ellipsis button to browse to, and then select a different location.

2. Do one of the following:
  - If you want to receive an email when an error occurs, select **Enable Email Error Logging**, and then complete the following steps:
    1. In the **SMTP Server** box, type either the IP address or the server name for the SMTP server.
    2. In the **SMTP Port** box, type the applicable port number.
    3. In the **To Address** box, type the email address to which error notifications will go.
    4. In the **From Address** box, type the email address from which error notifications will be sent.
    5. In the **Subject Line Starter (Optional)** box, type the subject you want to appear in the email notifications.
  - Clear the **Enable Email Error Logging** check box, and then go to the next step.
3. Click **Next**. The **Data Transfer Agent Service Settings** dialog box appears.



The screenshot shows the 'Data Transfer Agent Service Settings' dialog box within the 'PaperVision Capture Setup Tool'. The dialog has a title bar with the application name and standard window controls. Below the title bar is a header area with the title 'Data Transfer Agent Service Settings' and a small graphic of a computer monitor. The main content area contains the instruction: 'Please indicate the account under which the Data Transfer Agent Windows Service should execute.' Below this is a 'Log on as:' section with two radio buttons: 'Local System Account' and 'This Account'. The 'This Account' option is selected. Under 'This Account', there are three text input fields: 'User Name:' containing 'QALAB\DAWN', 'Password:' with masked characters, and 'Confirm Password:' also with masked characters. A note at the bottom of this section states: 'Note: when specifying an account, ensure that the account has the Windows "log on as a service" user right.' At the bottom of the dialog are three buttons: 'Skip', '< Back', and 'Next >'. The 'Next >' button is highlighted with a blue border.

4. Select the user account under which the Data Transfer Agent will run.



### IMPORTANT

The user account must have full-control access to the **Command File Path** you specified in the first step of this procedure, and the Windows **Log on as a Service** user right enabled.

- **Local System Account** does not require additional user name or password information.
  - **This Account** lets you select the Windows user account that has security rights to perform all Data Transfer Agent functions such as reading, writing, and deleting files. To use this option, type a user name and password; and then confirm the password.
5. Click **Next**, and then go to "Configure the Automation Service" below to continue.

## Configure the Automation Service

The Automation Service is a Microsoft® Windows service that performs automated tasks and batch processing at a specified time interval. If an error occurs when the Automation Service is running, it is logged to the Windows event log. You can choose to receive an email with the contents of the error message, when it occurred, and on which machine. To access the following **Automation Service Database and Error Settings** dialog box, you should have completed the procedures in the previous sections.

The screenshot shows the 'Automation Service Database and Error Settings' window of the PaperVision Capture Setup Tool. The window has a title bar with the application name and standard Windows window controls. Below the title bar is a header area with the title 'Automation Service Database and Error Settings' and a small graphic of a computer monitor. The main content area contains a text box explaining the Automation Service's function: 'The Automation Service performs system-level and user-scheduled background operations. Please specify the database connection to be used by the service and whether to enable email error logging.' Below this text are several input fields and a checkbox. The fields are: 'Server IP/Name' (DOC1), 'Database Name' (CAP0), 'User Name' (PVE), 'Password' (masked with dots), 'Connection Type' (a dropdown menu showing 'TCP/IP'), 'TCP/IP Port' (1433), 'SMTP Server' (127.0.0.1), 'SMTP Port' (25), 'To Address' (to@example.com), 'From Address' (from@example.com), and 'Subject Line Starter (Optional)' (PaperVision Process Worker Ev). The 'Enable Email Error Logging' checkbox is checked. At the bottom of the window are three buttons: 'Skip', '< Back', and 'Next >'. The 'Next >' button is highlighted with a blue border.

Server IP/Name:	DOC1
Database Name:	CAP0
User Name:	PVE
Password:	*****
Connection Type:	TCP/IP
TCP/IP Port:	1433
<input checked="" type="checkbox"/> Enable Email Error Logging	
SMTP Server:	127.0.0.1
SMTP Port:	25
To Address:	to@example.com
From Address:	from@example.com
Subject Line Starter (Optional):	PaperVision Process Worker Ev

Skip   < Back   Next >



### To configure the Automation Service

1. In the **Automation Service Database and Error Settings** dialog box, in the **Server IP/Name** box, type either the IP address or the server name where the database resides.
2. In the **Database Name** box, type the name of the database the Automation Service will use.
3. In the **User Name** box, type the user under which the Automation Service will access the database.
4. In the **Password** box, type the password for the user.

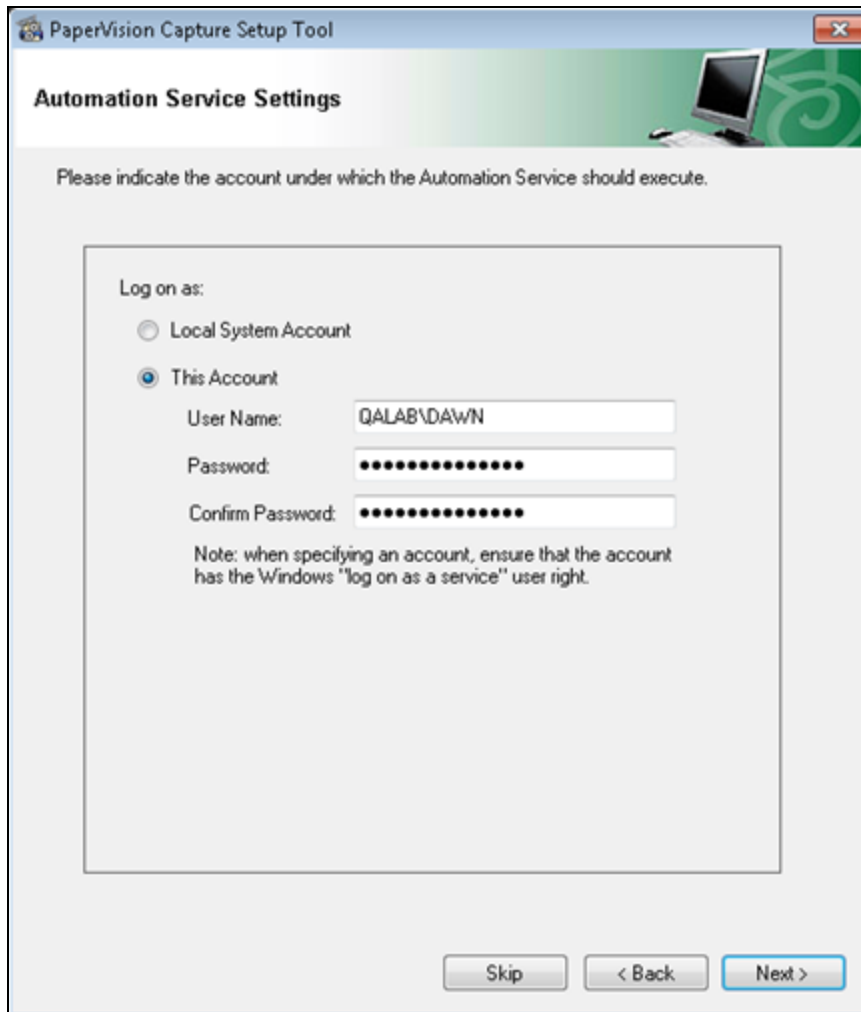


#### N O T E

If you leave the **User Name** and **Password** boxes blank, the database connection will use Windows Authentication credentials. Entering a user name and password for the database will supersede the Windows Authentication credentials.

---

5. From the **Connection Type** list, select the type of connection used to access the database.
6. If you chose **TCP/IP** in the previous step, in the **TCP/IP Port** box, type the applicable port number.
7. Do one of the following:
  - If you want to receive an email when an error occurs, select **Enable Email Error Logging**, and then complete the following steps:
    1. In the **SMTP Server** box, type either the IP address or the server name for the SMTP server.
    2. In the **SMTP Port** box, type the applicable port number.
    3. In the **To Address** box, type the email address to which error notifications will go.
    4. In the **From Address** box, type the email address from which error notifications will be sent.
    5. In the **Subject Line Starter (Optional)** box, type the subject you want to appear in the email notifications.
  - Clear the **Enable Email Error Logging** check box, and then go to the next step.
8. Click **Next** to access the **Automation Service Settings** dialog box.



9. Select the user account under which the Automation Service will run.



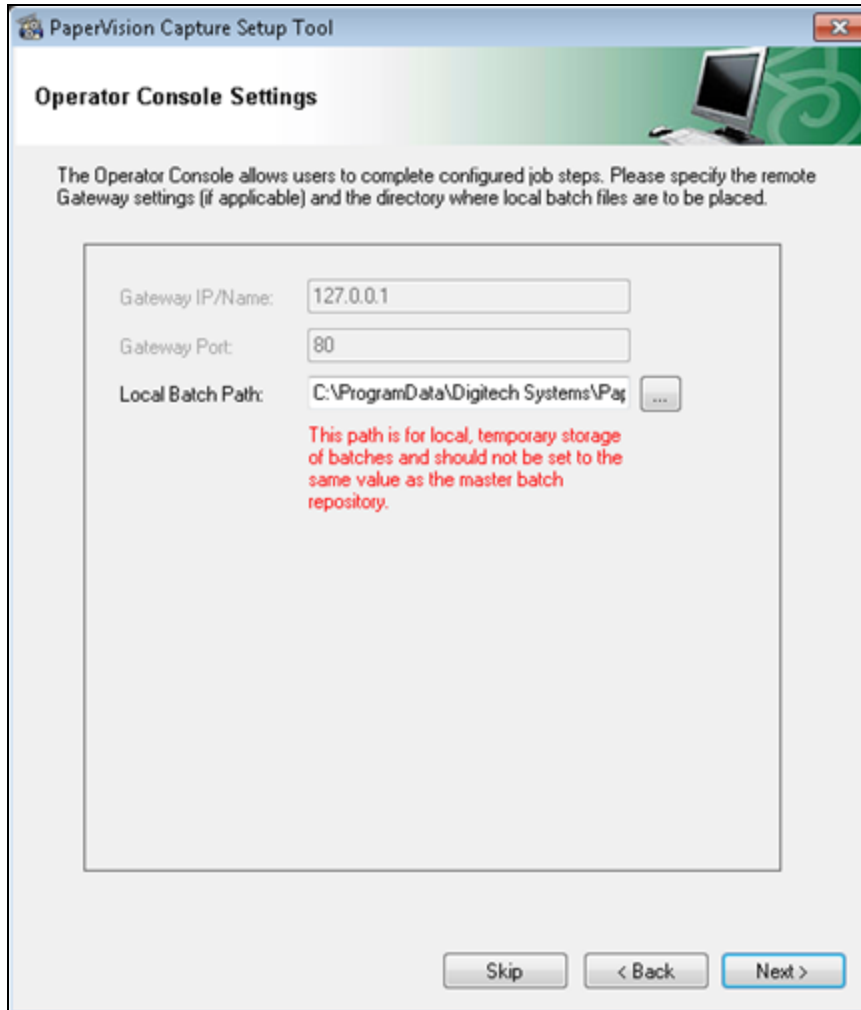
### IMPORTANT

The user account must have the Windows **Log on as a Service** user right enabled.

- **Local System Account** does not require additional user name or password information.
  - **This Account** lets you select the Windows user account that will have security rights to perform all Automation Service functions such as reading, writing, and deleting files. If you chose this option, type a user name and password; and then confirm the password.
10. Click **Next** to access the **Operator Console Settings** dialog box, and then go to "Configure the Operator Console" on the facing page to continue.

## Configure the Operator Console

The Operator Console allows users to complete configured job steps. To get to the following **Operator Console Settings** dialog box, you should have completed the procedures in the previous sections.



### To configure the Operator Console

1. In the **Operator Console Settings** dialog box, if you are using a Remote Gateway, specify the **Gateway IP/Name** and **Gateway Port**.



#### IMPORTANT

You must use a port number less than 65535 or services will fail to start.

2. In the **Local Batch Path** box, type the path for the local, temporary storage of batches, or click the ellipsis button to browse to, and then select the location. Keep in mind the following:
  - The local batch path must have enough storage space available to temporarily hold batches.
  - All Operator Console users must have full control access to the local batch path location.
  - The service account specified for the PaperVision Capture Data Transfer Agent Service must have full access to the local batch path.



### C A U T I O N

The temporary local batch path specified for the Operator Console must differ from the Master Batch Repository. Otherwise, PaperVision Capture will not function properly and data may become corrupt.

---

3. Click **Next** to access the **Forms Magic Communication Server**, and then go to "Configure the Forms Magic Communication Server" on the facing page.

# Configure the Forms Magic Communication Server

The Forms Magic Communication Server manages communications between all clients and Forms Magic Workers. There can be only one Forms Magic Communication Server per system-wide installation.



## IMPORTANT

Forms Magic requires a direct database connection and cannot be used over a gateway server.

To get to the following **Forms Magic Communication Server** dialog box, you should have completed the procedures in the previous sections.

The screenshot shows the 'Forms Magic Communication Server' configuration window within the 'PaperVision Capture Setup Tool'. The window has a title bar with the application name and standard Windows window controls. The main content area is titled 'Forms Magic Communication Server' and contains the following elements:

- A checkbox labeled 'Enabled on this machine' which is checked.
- A section titled 'Log on as:' with two radio button options: 'Local System Account' and 'This Account'. 'This Account' is selected.
- Below 'This Account', there are three text input fields: 'User Name:' containing 'QALAB\DAWN', 'Password:' filled with dots, and 'Confirm Password:' filled with dots.
- A note below the password fields: 'Note: when specifying an account, ensure that the account has the Windows "log on as a service" user right.'
- A section titled 'Communication Server Connection Details' containing two text input fields: 'URL' containing 'DOC1' and 'Port' containing '8060'.
- At the bottom of the window are three buttons: 'Skip', '< Back', and 'Next >'. The 'Next >' button is highlighted with a blue border.

### To configure the Forms Magic Communication Server

1. In the **Forms Magic Communication Server** dialog box, do one of the following:
  - If the Forms Magic Communication Server is running on a different machine, ensure that the **Enabled on this machine** check box is cleared, and then go to step 4.
  - If you want the Forms Magic Communication Server to run on this machine, select the **Enabled on this machine** check box, and then go to the next step.
2. Select the user account under which the Forms Magic Communication Server will run. We recommend that you use the same user account for both the Forms Magic Worker, and the Forms Magic Communication Server.



#### I M P O R T A N T

The user account must have the Windows **Log on as a Service** user right enabled.

---

- **Local System Account** does not require additional user name or password information.



#### I M P O R T A N T

When using this option, the NT AUTHORITY\SYSTEM login in SQL Server must be a member of the db\_owner role for the database you are using.

---

- **This Account** lets you select the Windows user account that will have security rights to perform all Automation Service functions such as reading, writing, and deleting files. If you chose this option, type a user name and password; and then confirm the password.
3. In the **Communication Server Connection Details** area, in the **Port** box, specify the port for communications.

You can use the default port for communications, or type a new port number.



#### I M P O R T A N T

You must use a port number less than 65535 or services will fail to start.

---

4. Click **Next** to access the **Forms Magic Worker** dialog box, and then go to "Configure the Forms Magic Worker" on the facing page.

# Configure the Forms Magic Worker

The Forms Magic Worker processes tasks within Forms Magic projects.



## IMPORTANT

Forms Magic requires a direct database connection and cannot be used over a gateway server.

To get to the following **Forms Magic Worker** dialog box, you should have completed the procedures in the previous sections.

The screenshot shows the 'Forms Magic Worker' dialog box within the 'PaperVision Capture Setup Tool'. The dialog has a title bar with the tool's name and standard window controls. The main area is titled 'Forms Magic Worker' and contains the following elements:

- A checkbox labeled 'Enabled on this machine' which is checked.
- A section titled 'Log on as:' with two radio button options:
  - 'Local System Account' (unselected)
  - 'This Account' (selected)
- Text input fields for 'User Name:' (containing 'QALAB\Dawn'), 'Password:' (masked with dots), and 'Confirm Password:' (masked with dots).
- A note: 'Note: when specifying an account, ensure that the account has the Windows "log on as a service" user right.'
- A section titled 'Communication Server Connection Details' with text input fields for 'URL' (containing 'DOC1') and 'Port' (containing '8060').
- At the bottom, three buttons: 'Skip', '< Back', and 'Next >' (which is highlighted in blue).

### To configure the Forms Magic Worker

1. In the **Forms Magic Worker** dialog box, do one of the following:
  - If you want the Forms Magic Worker to run on a different machine, ensure that the **Enabled on this machine** check box is cleared, and then go to step 3.
  - If you want the Forms Magic Worker to run on the current machine, select the **Enabled on this machine** check box, and then go to the next step.
2. Select the user account under which the Forms Magic Worker will run. We recommend that you use the same user account for both the Forms Magic Worker, and the Forms Magic Communication Server.



#### I M P O R T A N T

The user account must have the Windows **Log on as a Service** user right enabled.

---

- **Local System Account** does not require additional user name or password information.



#### I M P O R T A N T

When using this option, the NT AUTHORITY\SYSTEM login in SQL Server must be a member of the db\_owner role for the database you are using.

---

- **This Account** lets you select the Windows user account that will have security rights to perform all Automation Service functions such as reading, writing, and deleting files. If you chose this option, type a user name and password; and then confirm the password.
3. Click **Next**, and then **Finish** to complete the Setup Wizard.
  4. Click **Finish** to complete the installation process.



#### N O T E

If you want to reconfigure any components that you installed, you can use the PaperVision Capture Setup Tool. See "PaperVision Capture Setup Tool" on the facing page for more information.

---



# PaperVision Capture Setup Tool

The PaperVision Capture Setup Tool provides a convenient way to adjust the configurations that were set for components during installation. The following table lists the components and their available configuration options.



## IMPORTANT

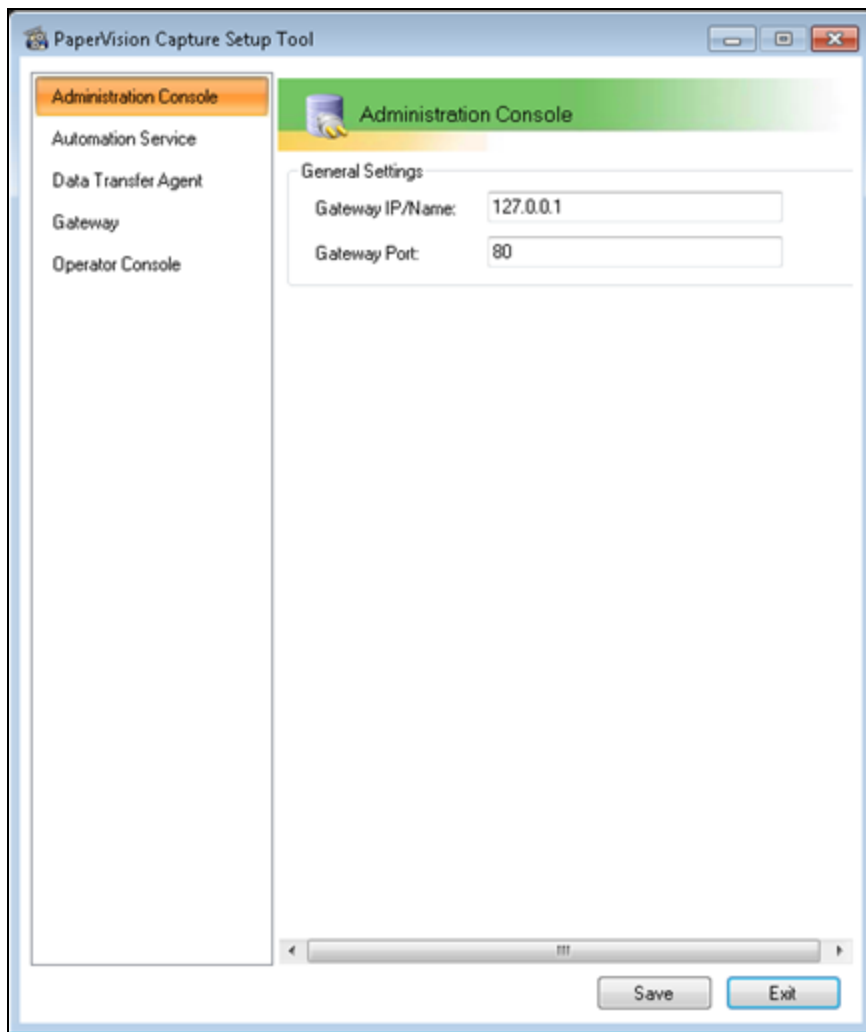
For the **Gateway Port** setting, you must use a port number less than 65535 or services will fail to start.

Component	Configuration Options
Administration Console	Gateway IP/Name Gateway Port
Automation Service	Database Settings <ul style="list-style-type: none"> <li>• Server IP/Name</li> <li>• Database Name</li> <li>• User Name</li> <li>• Password</li> <li>• Connection Type</li> <li>• TCP/IP Port</li> </ul> Service Settings <ul style="list-style-type: none"> <li>• Simultaneous Processes</li> </ul> Logging Settings (Enable Email Error Logging) <ul style="list-style-type: none"> <li>• SMTP Server</li> <li>• SMTP Port</li> <li>• To Address</li> <li>• From Address</li> <li>• Subject Line Starter (Optional)</li> </ul>

Component	Configuration Options
Data Transfer Agent	Command File Path Logging Settings (Enable Email Error Logging) <ul style="list-style-type: none"> <li>• SMTP Server</li> <li>• SMTP Port</li> <li>• To Address</li> <li>• From Address</li> <li>• Subject Line Starter (Optional)</li> </ul>
Gateway	Connection Type <ul style="list-style-type: none"> <li>• Remote Gateway               <ul style="list-style-type: none"> <li>- Gateway IP/Name</li> <li>- Gateway Port</li> </ul> </li> <li>• Database Settings               <ul style="list-style-type: none"> <li>- Server IP/Name</li> <li>- Database Name</li> <li>- User Name</li> <li>- Password</li> <li>- Connection Type</li> <li>- TCP/IP Port</li> </ul> </li> </ul> Server Configuration <ul style="list-style-type: none"> <li>• Gateway IP</li> <li>• Gateway Port</li> </ul>
Operator Console	Gateway IP/Name Gateway Port Local Batch Path

### To use the PaperVision Capture Setup Tool

1. On the taskbar in Windows, click the **Start** button.
2. Point to **All Programs**, and then click **Digitech Systems**.
3. Click **PaperVision Capture Setup Tool**. The PaperVision Capture Setup Tool appears.



4. On the left pane, click the component you want to figure.
5. On the right pane, you can set the applicable configuration items.
6. When you are finished adjusting the settings, click **Save**.

## WCF Custom Connection Parameters

If you need to gain complete control of the Windows Communication Foundation (WCF) parameters, add the following to the ClientSettings.xml file anywhere an FM Worker or client application (for example, Operator Console, Administration Console, or PV Process Worker) is installed and being used.



### IMPORTANT

Before performing the following procedure, we strongly recommend you contact Digitech Systems technical support.

### To customize WCF connection parameters

1. Open the ClientSettings.xml file (the default location is C:\Program Data\Digitech Systems\) on the machine for which you want to change the WCF connection parameters, and add the following node: `<UseCustomFMWCFSettings>true</UseCustomFMWCFSettings>`
2. Open the FMClientEndpoints.config file (the default location is C:\Program Files (x86)\Digitech Systems\PaperVision Capture\) on the machine for which you want to change the WCF connection parameters, and do the following:
  - Change `<endpoint name="FMClientService" address="net.tcp://localhost:8060/FMClientService"` to `<endpoint name="FMClientService" address="net.tcp://<ChatServer>:<port>/FMClientService"` where `<ChatServer>` is the name of the FM Communication (Chat) Server, and Port is the port number configured for use.
  - Change `<!--<dns value="Put DNS entry here if needed"></dns>-->` to `<dns value="<domain/machinename>"></dns>` where `<domain/machinename>` is your local Domain Name and Machine Name for the Client Application.
  - Change `<endpoint name="FileTransferService" address="net.tcp://localhost:8060/FileTransferService"` to `<endpoint name="FileTransferService" address="net.tcp://<ChatServer>:<port>/FileTransferService"` where `<ChatServer>` is the name of the FM Communication (Chat) Server, and Port is the port number configured for use.
  - Change `<!--<dns value="Put DNS entry here if needed"></dns>-->` to `<dns value="<domain/machinename>"></dns>` where `<domain/machinename>` is your local Domain Name and Machine Name for the Client Application.
3. Open the FMWorkerEndpoints.config file (the default location is C:\Program Files (x86)\Digitech Systems\PaperVision Capture\) on the machine for which you want to change the WCF connection parameters, and do the following:

- **Change** `<endpoint name="FMWorkerService" address=s="net.tcp://localhost:8060/FMWorkerService"`  
to `<endpoint name="FMWorkerService" address=s="net.tcp://<ChatServer>:<port>/FMWorkerService"`  
where `<ChatServer>` is the name of the FM Communication (Chat) Server, and Port is the port number configured for use.
- **Change** `<!--<dns value="Put DNS entry here if needed"></dns>-->`  
to `<dns value="<domain/machinename>"></dns>`  
where `<domain/machinename>` is your local Domain Name and Machine Name for the Worker Application.

4. Restart all PaperVision Capture services from Microsoft Windows Services.

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# CHAPTER 3

## Get Started

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Create PaperVision Capture System Users .....	46
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## Log in to the Administration Console

Before users can begin working in PaperVision Capture, you must perform the administrative tasks described in the sections that follow. You will use the Administration Console to complete these tasks.

### To log in to the Administration Console

1. On your desktop, double-click the **PaperVision Capture Administration Console** icon. The **PaperVision Administrator: Login** dialog box appears.
2. In the **User Name** box, type **ADMIN**. This is the default user name.
3. In the **Password** box, type **ADMIN**. This is the default password for the ADMIN user.
4. Select the **Global** check box to log on as a global administrator. (When the **Global** check box is cleared, you are logged in as a system administrator.)

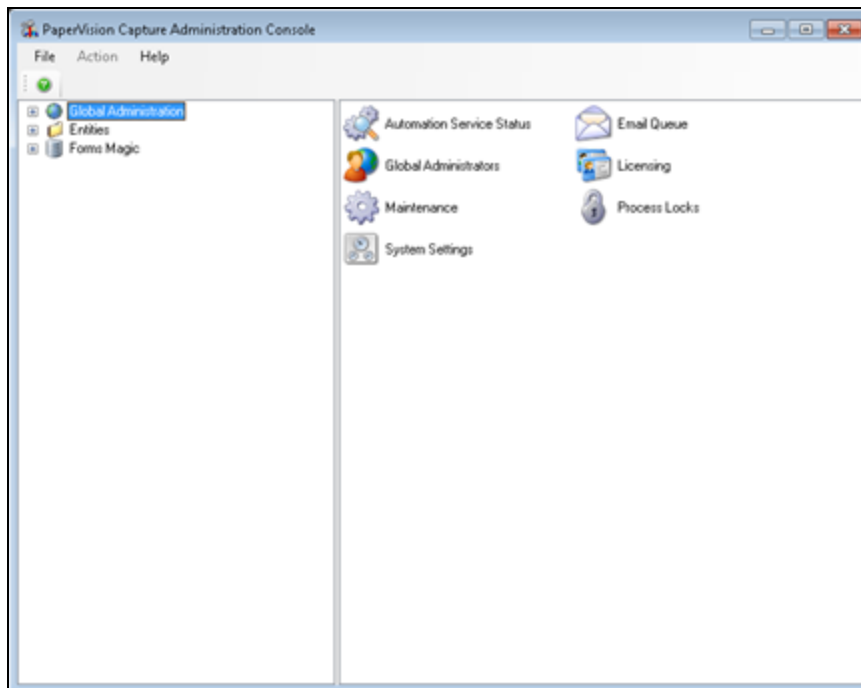


#### N O T E

Only a global administrator can configure the Automation Service Scheduling settings and create PaperVision Capture licenses.

---

5. Click **Ok**. The PaperVision Capture Administration Console appears.





# Configure Automation Service Scheduling

After you have logged in to the Administration Console as a global administrator, you must configure Automation Service Scheduling. These settings automate the execution of certain operations on timed intervals within PaperVision Capture. If they are not set up, no automated operations will run and back end work will not be completed in Paper Vision Capture.

The Automation Service automatically runs the operations you add to its schedule. For each operation, you can configure the start time, schedule, and the rate of repetition. Where operations appear on the **Automation Service Schedule** determines the order in which the Automation Service evaluates them. When the Automation Service evaluates the operations, it begins with the item at the top of the schedule and compares the value listed in the **Next Run Time** column to the current date and time. If the **Next Run Time** is earlier than the current date and time, it moves to the next operation in the schedule. If the **Next Run Time** value is equal to or later than the current date and time, the Automation Service runs the operation, records the run time in the **Last Run Time** column, and then sets the value in the **Next Run Time** column based on the schedule you specified for the operation. The Automation Service then repeats this process with the next operation on the schedule. When you modify the **Automation Service Schedule**, your changes take effect as soon as you save them.

## Available Operations

The following list describes the operations that are available for you to configure.

- **Maintenance Queue** - This operation processes any maintenance items that appear on the **Maintenance Queue**. Maintenance queue items involve one-time operations such as processing completed batches on the server or updating a specific job step's list of predefined index values.
- **Maintenance Log Cleanup** - This operation automatically deletes maintenance logs older than the specified value in the **Max Maintenance Log Age** setting. (You can modify this setting on the **Systems Settings** screen. See the Administration Console's **Help** menu to access online help topics and the *PaperVision Capture Administration Guide* for more information.)
- **Process Batch** - This operation runs automated PaperVision Capture job steps.
- **Destroy Batch** - This operation automatically deletes batches that are scheduled for destruction.
- **Session Grant Cleanup** - This operation removes sessions that have remained idle longer than the value specified in the **Max Global Session Idle Time** setting (located under **Global Administration > System Settings > Configure System Settings > General** tab). See the Administration Console's **Help** menu to access online help topics and the *PaperVision Capture Administration Guide* for more information.)
- **Email Queue** - This operation processes (sends) items that appear on the **Email Queue**.



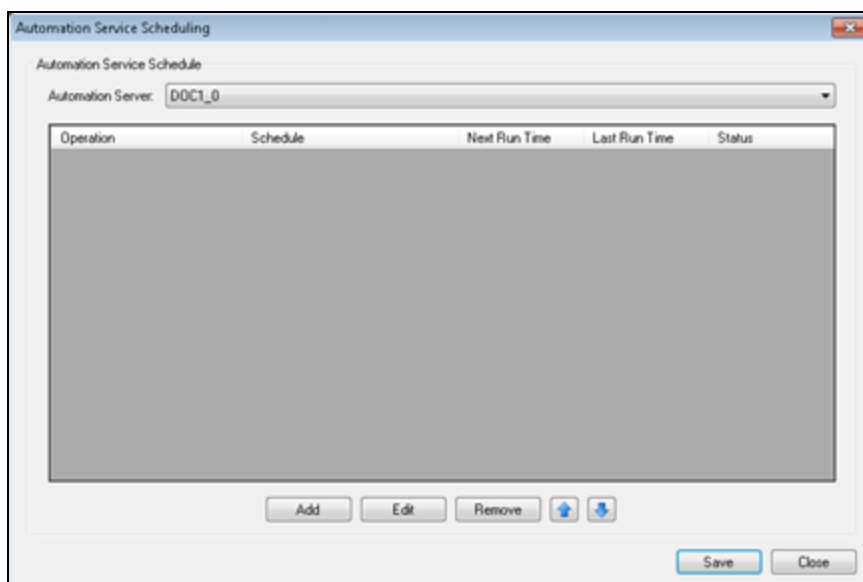
### NOTE

Generally, all of the possible operations should be scheduled. The schedule for the **Maintenance Queue** and **Process Batch** operations can have a direct impact on batch throughput.

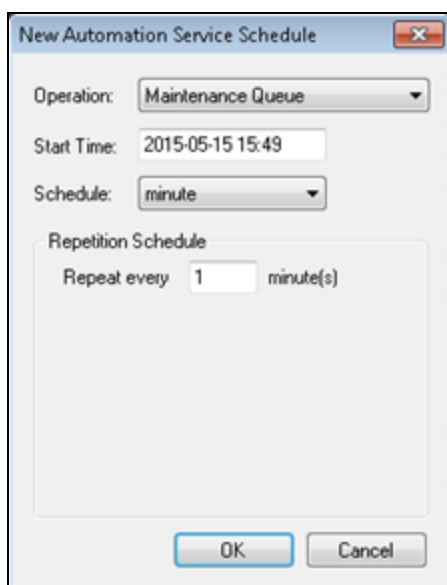
---

### To add an automation service operation

1. Log in to the Administration Console as a global administrator. (See "To log in to the Administration Console" on page 40 if you need help.)
2. On the left pane, expand **Global Administration**.
3. Click **System Settings**.
4. On the right pane, double-click **Configure Automation Service Scheduling** to open the **Automation Service Scheduling** dialog box.



5. From the **Automation Server** list, select the server that will run the configured operations.
6. Click **Add** to open the **New Automation Service Schedule** dialog box.



7. From the **Operation** list, select the operation to add to the **Automation Service Schedule**.  
(See "Available Operations" on page 41 for a description of each operation in the list.)
8. In the **Start Time** box, type the date and time for the operation to start running according to the schedule you are setting up.  
By default, this box displays the date and time when you clicked **Add**.
9. From the **Schedule** list, select the unit of time on which to base the schedule.  
The option in the **Repetition Schedule** area is automatically updated to reflect your selection.
10. In the **Repetition Schedule** area, specify how often you want the operation to run.
11. Click **OK** to add the operation to the **Automation Service Schedule**.
12. Repeat steps 6 through 11 to add all other operations to the **Automation Service Schedule**, and then click **Save** to save your changes.

## License PaperVision Capture

Before users can log in to the PaperVision Capture Operator Console, you must add licenses. PaperVision Capture provides Global, Entity, Concurrent, and Named licenses.

- Global licenses are assigned to a single database for unlimited entities.
- Entity licenses are assigned to an entity and are available to any users for that entity. Concurrent licenses are assigned to a specific entity and are restricted to a single user at any given time.
- Concurrent licenses provide the greatest flexibility, since a license is only consumed when a user is logged in to the PaperVision Capture Operator Console. If no licenses have been added in the Administration Console, the user will be prompted that none are available for the session in the Operator Console.
- Named licenses are assigned per machine or per process, not to individual users. Named licenses may be consumed only by the machine or process to which they are assigned. To ensure that a specific machine is always available to process automated jobs, a named license could be assigned to your automation server. In this case, a named license would be required for each instance of an automation server.

When an automation service process is executing custom code that adds new documents to a batch, then the process requires the appropriate licenses based on job configuration. You can configure multiple automation service processes to run on a single physical machine. When named licenses are used, each automation server process consumes a license. For example, if three automation service processes were running on a machine named WINPC, you would need three named licenses as follows:

1. WINPC\_0
2. WINPC\_1
3. WINPC\_2

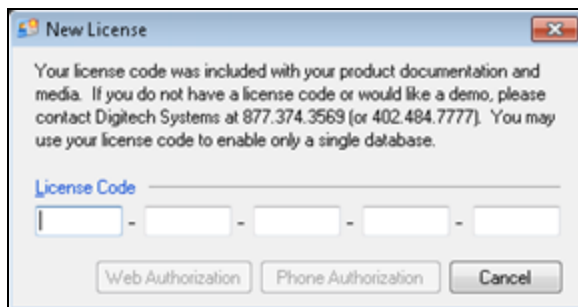
Conversely, for concurrent licensing, each automation service process still requires a license, but the naming scheme is not relevant.

In most scenarios, a license is consumed when a user works on a manual step in the Operator Console. A license is released after a user logs out of the Operator Console. Additionally, a license is released when a user session has timed out or when a user session is “killed” via the Administration Console.

Only a global administrator can create new licenses in the Administration Console. If your site integrates with PaperVision Enterprise, a global administrator can alternatively add licenses in the PaperVision Administration Console “thick client” application.

### To add a license

1. Log in to the Administration Console as a global administrator. (See “To log in to the Administration Console” on page 40 if you need help.)
2. On the left pane, expand **Global Administration** and then click **Licensing**.
3. On the toolbar, click **Create New License** to open the **New License** dialog box.



4. In the **License Code**.boxes, type the license code that was included with your product documentation and media.
5. Do one of the following:
  - Click **Web Authorization** to get the license key online.
  - Click **Phone Authorization**, and then follow the instructions on the **Obtain Authorization Code** dialog box.



#### NOTE

You must provide the serial number and identifier before the license key will be given to you.

---

6. In the **Obtain Authorization Code** dialog box, type the authorization code.
7. Click **OK**. The new license appears on the **Licensing** window.
8. To assign the license to an entity, double-click the license to open its properties.
9. Select the entity from the **Assigned To** list, and then click **OK**.

## Bulk Importing Licenses

If you have many licenses to add, you can do a bulk import of them from a text file to save time. If you want to use this feature, contact customer support to get a text file that contains your licensing information, and then perform the following procedure.

### To bulk import licenses

1. If you haven't already done so, contact customer support to get a text file that contains your licensing information, and save this file to a location you can access from the Administration Console.
2. Log in to the Administration Console as a global administrator. (See "To log in to the Administration Console" on page 40 if you need help.)
3. On the left pane, expand **Global Administration** and then click **Licensing**.
4. On the toolbar, click **Bulk Import Licenses**.
5. In the **Open** dialog box, select the text file that contains the license codes you want to import, and then click **Open**.

Each license code that was successfully imported appears on the right pane. If a license code does not import successfully, a prompt appears asking if you want to do a phone authorization. If you click **Yes**, the **Obtain Authorization Code** dialog box appears with the information you need to complete the authorization by phone.

## Demonstration Licenses

Two types of demonstration licenses are available for PaperVision Capture: the Watermark Demo license, and the Capture Demo Click license. Both include all global administration features and PaperVision Capture functionality (except for Forms Magic and the EDI business rule). These licenses cannot be combined with the Concurrent or Named license types. Please contact Digitech Systems' Technical Support to get the appropriate demonstration license key.

The Watermark Demo license writes a watermark on all images that are scanned or imported into the PaperVision Capture Operator Console for the entire duration of the batch process. Because the application writes a watermark onto each captured image, non-repudiation is not supported. The demonstration license is designed specifically to show the features and functionality of the product, and is not designed for high-volume, performance testing.



### CAUTION

Removing the watermark is a violation of the PaperVision Capture End User License Agreement (EULA).

---

The Capture Demo Click License has much of the same functionality as the Watermark Demo license, except that it expires after a set number of pages are processed instead of writing a watermark on the images. Since no watermarks are applied to images, non-repudiation is supported. Capture Demo Click License functionality is limited to one machine, and does not work across a gateway server. Additionally, you cannot create or populate batches via automated Custom Code with a Capture Demo Click license. Global administrators can view the number of clicks remaining on a license in the PaperVision Capture Administration Console.

## Create PaperVision Capture System Users

A system or global administrator must create user accounts. There are five types of system users:

- **System administrators** are entity administrators and can configure all administrative settings for a particular entity.
- **Workflow administrators** can log in to the PaperVision Capture Administration Console but cannot perform any functions. (This setting is used in PaperVision Enterprise, where workflow administrators can design and configure workflows within an entity.)
- **Capture administrators** can configure jobs and job steps within the entity.
- **E-Form administrators** can create E-Forms in PaperVision Enterprise. This setting is not used in PaperVision Capture.
- **Users**, also known as operators, work in the PaperVision Capture Operator Console. If you assign a user to a job step, that user has access to every function configured for that job step. You assign job steps to users so they can perform scanning, indexing, and batch processing functions.

### To create a new system user

1. Log in to the Administration Console as a system or global administrator. (See "To log in to the Administration Console" on page 40 if you need help.)
2. On the left pane, expand **Entities**, and then expand **Company**.
3. Expand **General Security**, and then click **System Users**.
4. On the toolbar, click **Create New User** to open the **New User** dialog box.

**New User**

**General**

User Name:

Full Name:

Email Address:

**Password**

Password:

Confirm Password:

☒ User must change password at next login

☒ User can change password when desired

**User Type**

☐ System Administrator

☐ Workflow Administrator

☐ Capture Administrator

☐ E-Form Administrator

OK Cancel

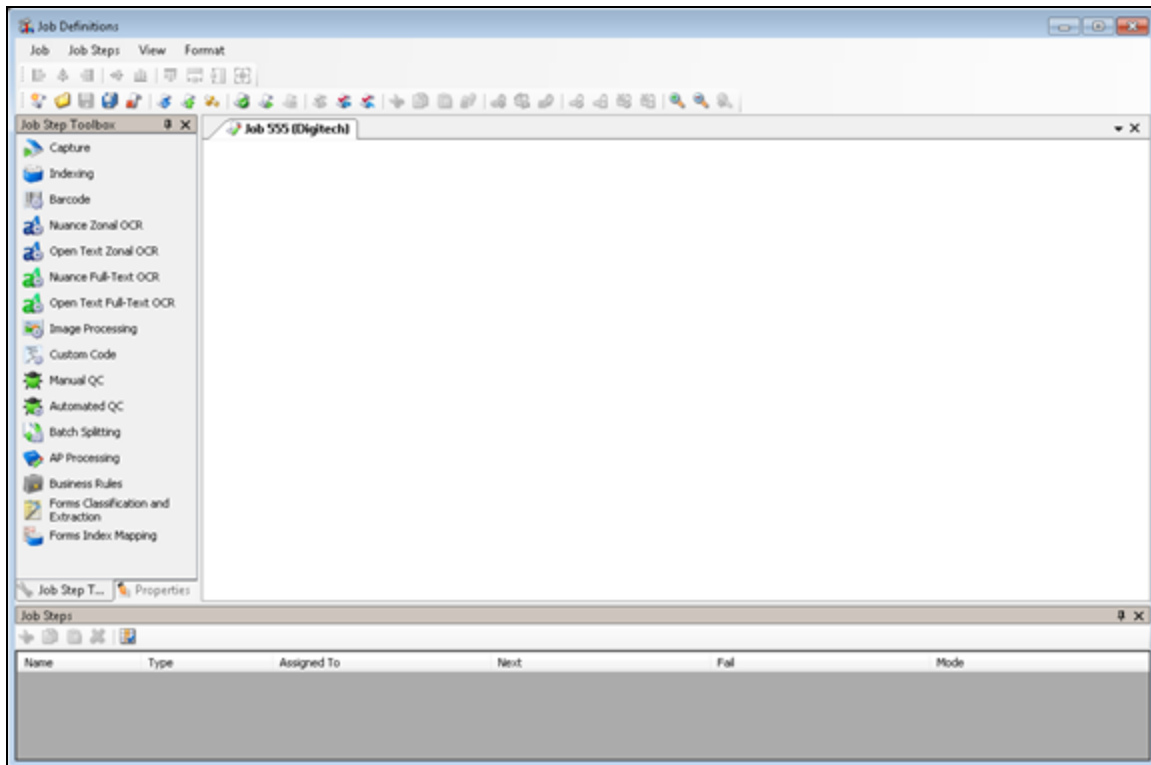
5. In the **User Name** box, type the name that will be used to log in to PaperVision Capture.
6. (Optional) In the **Full Name** box, type the user's full name. This name is the one that will be referenced on reports.
7. (Optional) In the **Email Address** box, type an email address for the user.
8. In the **Password** box, type the initial password the user will use to access the system. (Passwords are case sensitive.)
9. In the **Confirm Password** box, type the password again to confirm it.
10. To force the user to change the password the next time they log in, select the **User must change password at next login** check box.
11. To allow the user to change the password at any time, select the **User can change password when desired** check box.
12. In the **User Type** area, do one of the following:
  - Select the appropriate user type(s). (See the list under "Create PaperVision Capture System Users" on the previous page for a description of each user type.)
  - To create a regular user, clear all of the check boxes in the **User Type** area.
13. Click **OK**.

## Create Jobs and Job Steps

Global, system, or capture administrators can create jobs and job steps from the PaperVision Capture Administration Console. Jobs define the steps for processing batches of documents. Job steps are automated or manual operations such as indexing, scanning, barcoding, image processing, and custom code execution. To get started, You must create at least one job so that batches can be processed in the PaperVision Capture Operator Console. Each job must contain, at the minimum, a Capture start step. Job steps are created on the **Job Definitions** window that opens after you create a new job. You can find more information about jobs and job steps in the Administration Console's **Online Help** or in the *PaperVision Capture Administration Guide*.

### To create a new job

1. Log in to the Administration Console. (See "To log in to the Administration Console" on page 40 if you need help.
2. On the left pane, expand **Entities**, and then expand **Company**.
3. Click **Capture Jobs**.
4. On the toolbar, click **Create New Job** to open the **New Job** dialog box.
5. In the **Name** box, type the name for the new job.
6. Click **OK**. The **Job Definitions** window appears.



From the **Job Definitions** window, you can create jobs and job steps. You can find instructions for creating jobs and job steps in the Administration Console's **Online Help** and the *PaperVision Capture Administration Guide*. After you set up all job steps and validate the job, you can activate and check the job in so it is available for use in the PaperVision Capture Operator Console.

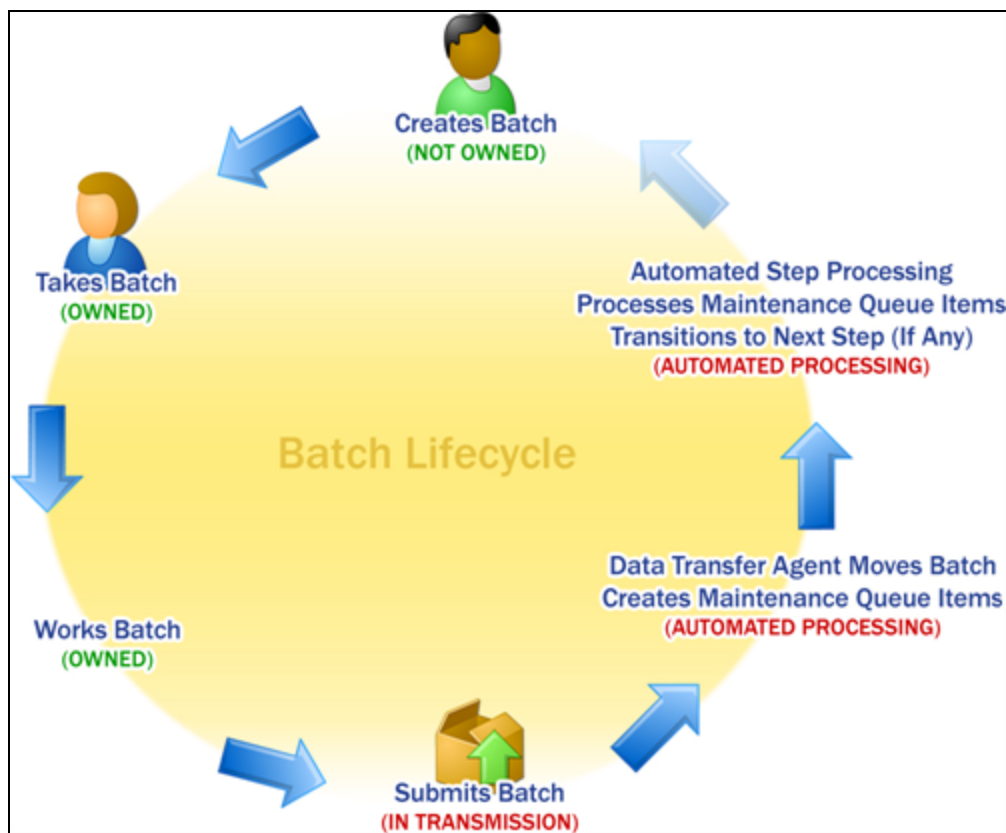


## Task Flow for the Operator Console

The PaperVision Capture Operator Console provides scanning, indexing, and batch processing capabilities. From the Operator Console, users (operators) manually create batches, assume batch ownership, open batches, and submit batches. Once a batch is created, users can scan or import images, index documents, and define settings for the scan and batch display. Users can edit the contents of a batch before marking it as complete and submitting it for processing, which transitions the batch to the next job step.

The global, system, or capture administrator assigns specific job steps to the appropriate operators who will perform specific functions in the PaperVision Capture Operator Console. The *PaperVision Capture User Guide* provides details about the settings that can be configured and the functions that can be performed from the Operator Console.

The diagram below illustrates the life cycle of a batch beginning with its creation, assumption of ownership, submission, and automated processing.



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# APPENDIX A

## Installation Configurations

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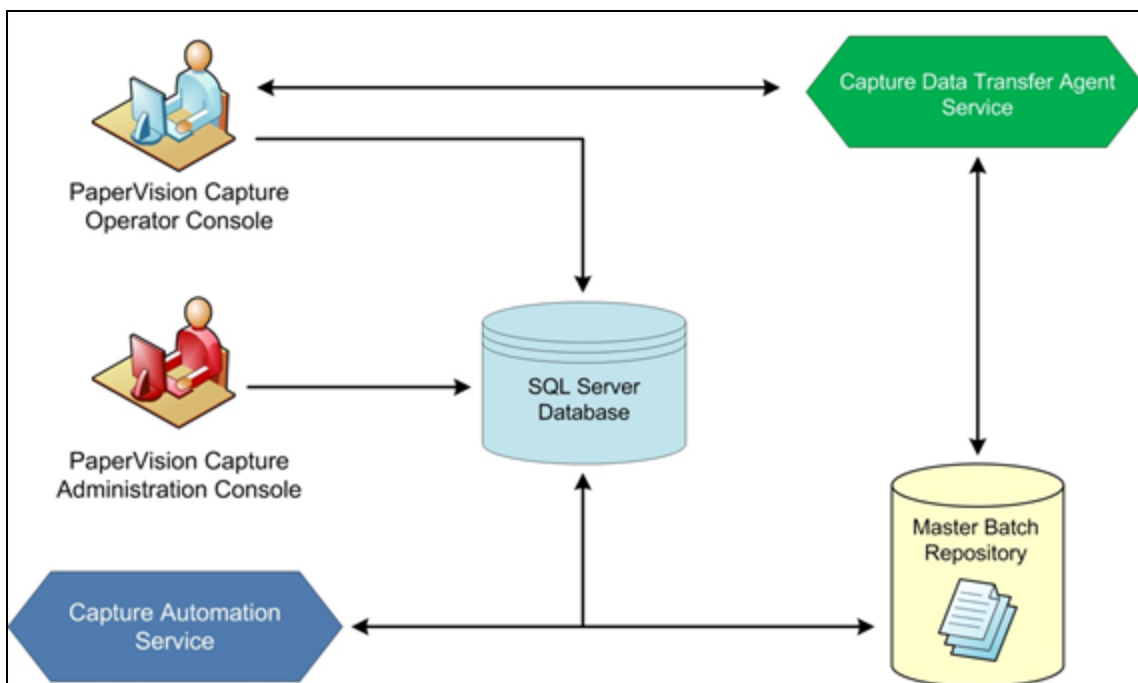
Single Workstation Installation (Excludes Forms Magic) .....	52
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Distributed Multiuser Installation (Two Entities, Excludes Forms Magic) .....	54
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## Single Workstation Installation (Excludes Forms Magic)

In the single workstation installation, all of the components reside on one workstation. To support a single, physical-office location, this scenario might be modified such that the database and Master Batch Repository reside on a centralized, networked server.

The following diagram shows a possible single workstation installation. The arrows in the diagram represent data exchange between the various components.



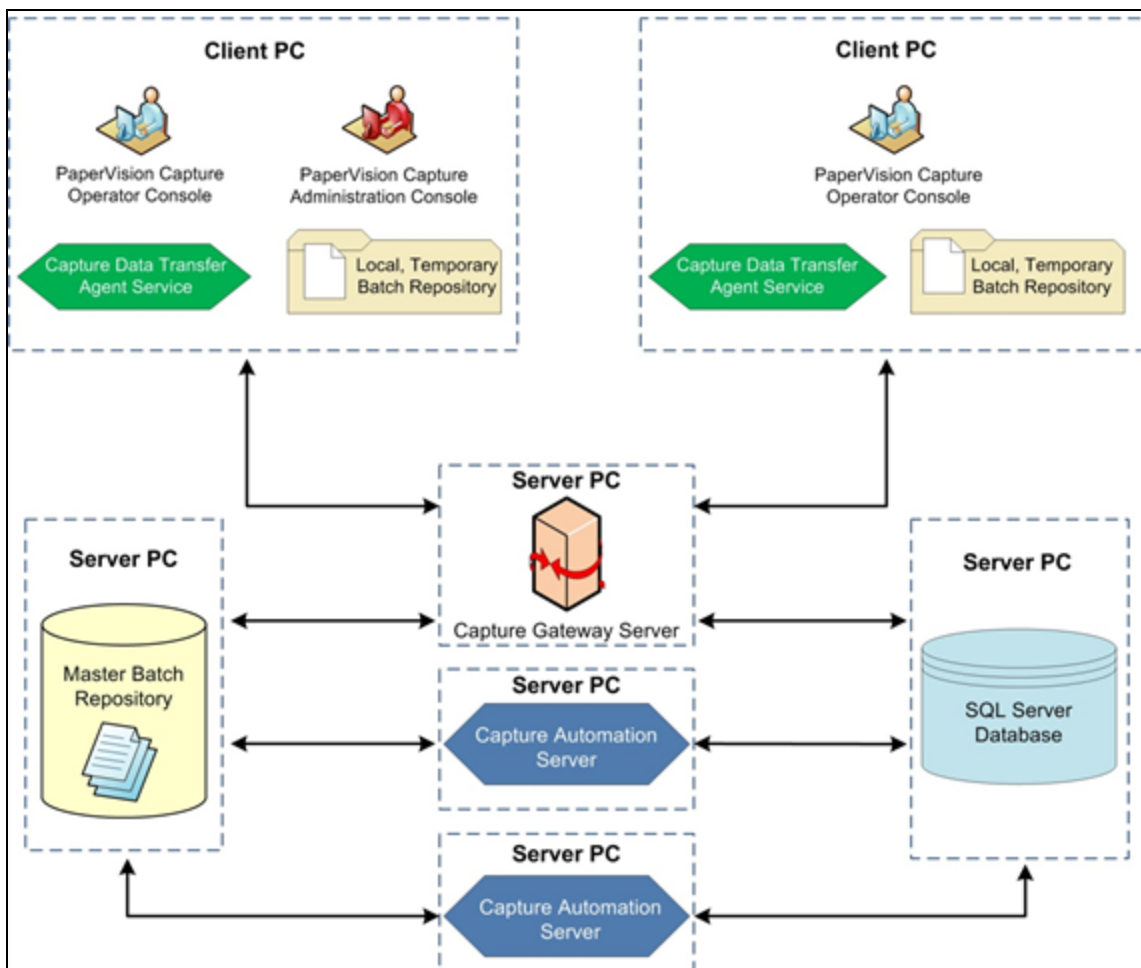
## Distributed Multiuser Installation (Excludes Forms Magic)

The following diagram shows one possible deployment for a distributed multiuser installation. Client applications at potentially disparate locations communicate with a centralized Capture Gateway Server (an “application server”). Multiple Capture Automation Servers are deployed to increase the throughput of automated processing. Deployment scenarios such as this are suitable for a large enterprise. Server roles can be isolated to separate servers or consolidated to a single server.



### IMPORTANT

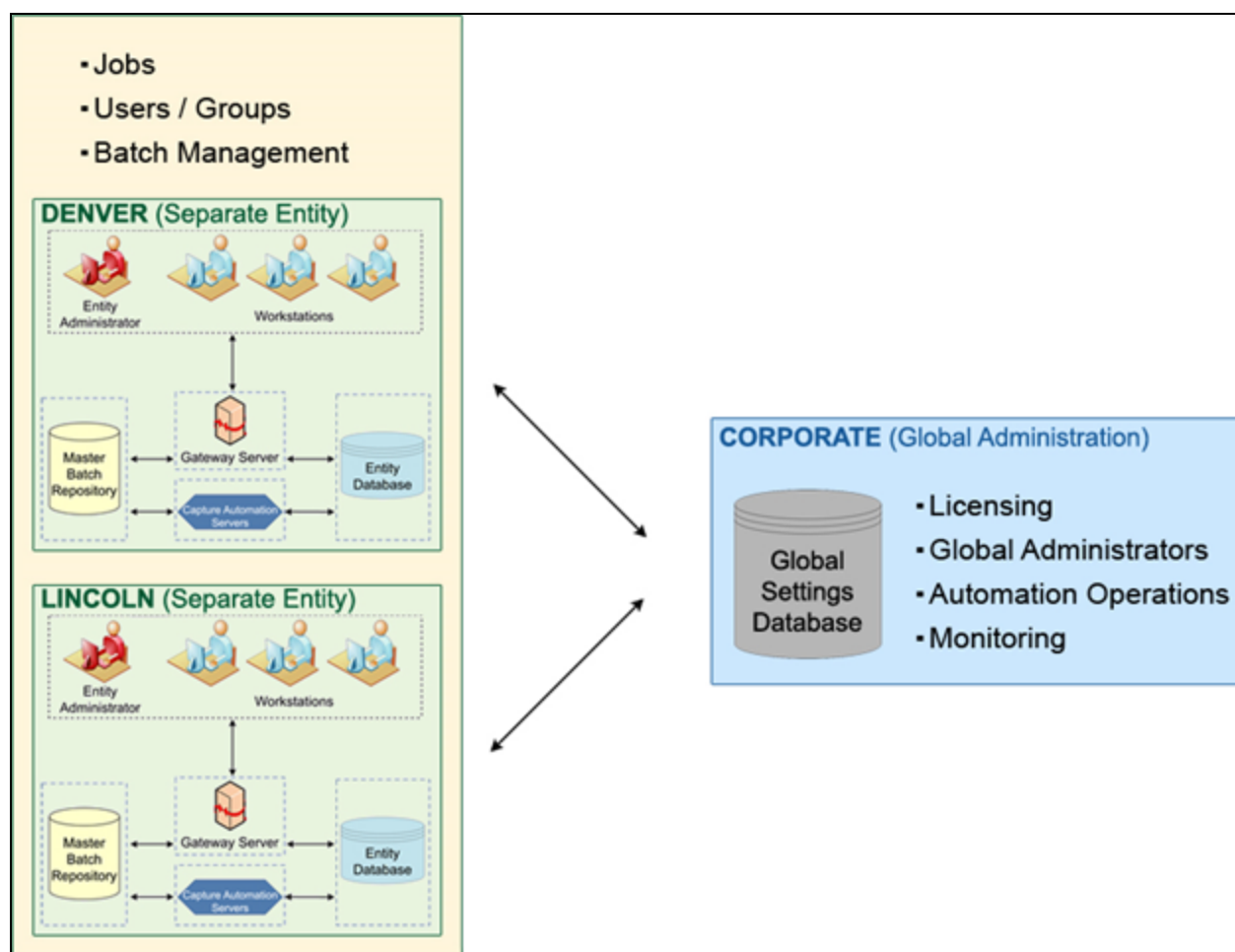
The Operator Console and Data Transfer Agent must always be installed on the same machine; otherwise, data will not synchronize properly between the Master Batch Repository and local, temporary batch repositories.



## Distributed Multiuser Installation (Two Entities, Excludes Forms Magic)

In this scenario, two entities have been configured for a distributed, multiuser installation. One office (entity) is located in Denver, Colorado, and the other is located in Lincoln, Nebraska. One machine can be used solely for global administration operations. Each entity has a separate database, and manages jobs, users/groups and batches solely for that entity. Both locations are monitored by a single global administrator.

This scenario can alleviate network congestion since each location is a separate entity. If the Denver office becomes inundated with work and needs assistance from Lincoln, Lincoln user accounts can be created for the Denver entity so users can be assigned to Denver jobs. As a result, Lincoln users can simply log on to the Denver entity and process jobs for Denver.



## Forms Magic Installation

The following diagram shows a possible single workstation installation for Forms Magic. The arrows in the diagram represent data exchange between the various components.

