

System Administrator Guide



HP Digital Sending Software 4.91

System Administrator Guide

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1 Introduction to Digital Sending

This chapter contains the following topics:

- Digital sending overview
- Introduction to DSS
- Embedded Digital Sending vs DSS
- DSS vs Web Jetadmin
- What is new in DSS 4.91?

Digital sending overview

HP Digital Sending technology offers a fast, simple and reliable way to capture valuable information from paper-based documents and convert it to a digital format which can be further processed and routed to a number of different destinations.

Routing destinations include, but are not limited to, the following:

- Network folders
- E-mail
- FTP sites
- Fax

The digital file types available include, but are not limited to, the following:

- JPEG
- TIFF
- PDF
- PDF/A

Optical Character Recognition and Compression are also available offering a wide range of digital file types of varying sizes and quality that the user can select to meet their needs.

Additional data, or metadata, can also be specified and routed along with the scanned images as a method for enabling more complex workflows.

Digital Sending is available from most HP Multi-function Peripherals, the Digital Sender line of products and some HP Scanners. These products offer a wide range of Digital Sending capability "out of box" via the product firmware. This out of box functionality is referred to as embedded digital sending. What functions are available via embedded digital sending varies by product. See <u>Table 1-1</u> Feature comparison on page 7 for more information.

The functionality of embedded digital sending can be extended with the server based HP Digital Sending Software (DSS) product. Some features DSS adds to embedded digital sending are shared address books, secure E-mail, a single point for e-mail routing and Optical Character Recognition.

Introduction to DSS

The HP Digital Sending Software (DSS) extends the embedded Digital Sending functionality of supported devices by adding the following capabilities:

- Routing e-mail through a central point (the DSS server), which simplifies SMTP security management in environments with Access Control List security.
- Multiple SMTP gateways for redundancy in delivering e-mail jobs.
- Encrypted e-mail channel with SMTP over SSL.
- Sending fax through LAN Fax and Internet Fax servers.
- Public- and Personal Address Books.
- Access to Microsoft® Exchange Contacts from the front panel of the device with the Exchange Contacts feature.
- The LDAP Replication feature allows access to the company directory while off-loading the LDAP servers.
- The Workflow feature allows easy and consistent scanning into company workflow processes. Metadata can be collected for each job using custom keys or built-in system prompts, allowing integration with third-party applications.
- OCR processing of e-mail, folder and FTP jobs through the I.R.I.S OCR engine to create searchable output.
- Easy and intuitive interface to manage Digital Sending features through the Configuration Utility.
- Central logging of document sending activity for tracking, auditing, and troubleshooting purposes.
- Additional file types, such as PDF/A and Compact PDF.

DSS runs as a software service on a networked server. Supported devices are "DSS aware," which means they have components built into the firmware that allow them to make use of the services/ features offered by DSS. Once a device is added into DSS, all of the Digital Sending features are managed through the Configuration Utility.

This section contains the following topics:

- Features overview
- Supported devices Legacy device support

Features overview

This section gives a basic overview of the various features of the DSS.

- E-mail
 - Route e-mail jobs from multiple devices through a single point. DSS makes it possible to route e-mail jobs either through DSS or directly from the device to the SMTP gateway. Routing e-mail through the DSS server simplifies SMTP security management in environments with Access Control List security on the SMTP gateways.
 - **SMTP gateway redundancy.** Multiple SMTP gateways for redundancy in delivering e-mail jobs.
 - **Encrypted e-mail channel.** DSS can provide a secure e-mail channel using SMTP over SSL.
- Fax
 - **Manage analog fax settings.** The DSS Configuration Utility provides an intuitive interface for managing fax settings on devices that have an analog fax accessory installed.
 - Electronic faxing. Integrates with LAN Fax and Internet Fax servers.
- Address Books. Devices attached to DSS have access to the DSS address books, which provide the following functionality:
 - **Public Address Book.** Allows the administrator to create an address book which is accessible from all attached devices.
 - **Personal Address Book.** Each user can create, use and manage a personal address book from any attached device.
 - **Exchange Contacts.** Each user can access their Microsoft Exchange® Contacts from the front panel of any attached device.
 - **LDAP Replication.** This feature allows access to the company directory while off-loading the LDAP servers.
 - Address Book Management. Allows the administrator to manage all DSS address books.

Workflow

- Integration with third-party applications. The Workflow feature allows easy and consistent scanning into company workflow processes, either through a shared folder or FTP site. Metadata can be collected for each job using custom keys or built-in system prompts, allowing integration with third-party applications.
- Optical Character Recognition (OCR)
 - Searchable documents. OCR processing of e-mail, folder and FTP jobs through the I.R.I.S OCR engine to create searchable output in file formats such as PDF, XPS, HTML, RTF etc.

• Digital Sending management

 Easy and intuitive interface to manage Digital Sending features through the Configuration Utility.

- Logging
 - Central logging of document sending activity for tracking, auditing and troubleshooting purposes.
- Additional file types
 - **PDF/A.** This file format is used for long-term archiving of electronic documents.
 - Compressed PDF. Advanced compression technology allows creating PDF files of significantly smaller size while preserving good image quality.

Supported devices – Legacy device support

The DSS supports most recent HP high-end multi-function peripheral (MFP) products, Digital Senders and some ScanJet products. This document refers to these devices as *DSS-enabled devices*. A list of all compatible products can be found on the HP Website at <u>www.hp.com/go/dss</u>.

Important notes:

- Some DSS features are not available on certain models. This is due to differences in firmware
 generations in the supported device models. For example, the Send to Folder feature is not
 supported on the LaserJet 4100mfp and 9000mfp series however, it is possible to send to
 folder through the Workflow feature on those devices. Also, only configuration of Embedded
 Digital Sending features is supported on the Edgeline series devices. Updated feature
 compatibility information can be located in the readme file.
- As DSS support is built into the device firmware DSS is generally "forwards compatible" with new device models provided the device in question supports DSS. Consequently, although HP recommends keeping DSS updated, it is typically not necessary to update DSS in order to use a new device model. Exceptions to this are published in the DSS release notes (readme) file.

Embedded Digital Sending vs DSS

There are two ways to implement Digital Sending:

- 1. **Embedded Digital Sending.** Embedded Digital Sending indicates device-specific Digital Sending capabilities. These Digital Sending capabilities are embedded in the firmware of the Digital Sending enabled device. Embedded Digital Sending includes capabilities such as e-mail and fax.
- Digital Sending Software (DSS). DSS is a software service running on a network that expands the existing embedded capabilities of Digital Sending enabled devices. DSS includes capabilities such as Send to E-mail (encrypted e-mail), Send to Fax, Send to Workflow, and Send to Network Folder.



Figure 1-1 Embedded and service-based Digital Sending

Differences

The following product groups are represented in the Features Comparison table below.

- Group 1 HP LaserJet 4100 and 9000 MFP
- Group 2
 - HP LaserJet 4345, 9040/9050, M3035, M4345, M5035 and M9040/9050 MFP
 - \circ $\;$ HP Color LaserJet 4730, 9500, CM3530, CM4730 and CM6030/6040 MFP $\;$
 - HP 9200c and 9250c Digital Sender

- Group 3
 - HP ScanJet Enterprise 7000n Document Capture Workstation
 - HP M4555 MFP and CM4540 Color MFP
- Group 4 HP LaserJet 9055 / 9065 MFP
- Group 5 HP CM8050/8060 Color MFP

Table 1-1	Feature	comparison
-----------	---------	------------

Area	Feature	Product Groups				
		Group 1	Group 2	Group 3	Group 4	Group 5
Authentication	LDAP	NA	Ý	¥	NA	¥
	LDAP over SSL	NA	Ý	¥	NA	¥
	Microsoft Windows	DSS	DSS	¥	DSS	¥
	Kerberos	NA	E	E	NA	E
	Novell Netware	DSS	DSS	/	DSS	/
Send to	E-mail	\checkmark	Ý	¥	DSS	/
	Folder	NA	/	¥	NA	Ý
	LAN Fax	DSS	DSS	¥	NA	¥
	Internet Fax	DSS	DSS	¥	NA	¥
	Analog Fax	E	E	E**	NA	E
	Printer	DSS	DSS	¥ **	DSS	NA
Addressing	Direct LDAP	/	Ý	¥	NA	Ý
	Replicated LDAP	DSS	DSS	¥	NA	¥
	Public Address Book	DSS	DSS	¥	DSS	DSS
	Personal Address Books	DSS	DSS	¥	DSS	¥
	Exchange Contacts	DSS	DSS	¥	DSS	¥
	Local Address Book	E	E	¥	DSS	¥

Area	Feature	Product Groups				
		Group 1	Group 2	Group 3	Group 4	Group 5
Other	Optical Character Recognition (OCR)	DSS	DSS	DSS***	DSS	/
	Workflow	DSS	DSS	DSS	DSS*	DSS
	Metadata support	DSS	V	¥	NA	~
	Custom-keys metadata	DSS	DSS	DSS	NA	DSS
	FileNet integration	DSS	DSS	DSS	DSS	DSS
	Single point for e-mail routing	DSS	DSS	DSS	DSS	NA
	SMTP gateway redundancy	DSS	DSS	DSS	DSS	DSS
	SMTP over SSL	DSS	DSS	Y	DSS	DSS
	Quick Sets	NA	NA	¥	NA	NA
	PDF/A	DSS	DSS	¥	¥	NA
	Compact PDF	DSS	DSS	¥	V	¥
	Signed e-mail	NA	V	¥	NA	/
	Encrypted E-mail (message)	NA	¥	¥	NA	Y

Table 1-1 Feature comparison (continued)

Legend

- **DSS** Requires DSS
- Available both embedded and when managed by DSS
- **E** Available only in embedded Digital Sending
- NA Not available
- * Appended: limitations apply
- ** Not available on the HP ScanJet Enterprise 7000n Document Capture Workstation.
- *** The HP ScanJet Enterprise 7000n Document Capture Workstation has this feature available both embedded and when managed by DSS.

Advantages of DSS

HP Digital Sending Software allows customers to do the following:

Table 1-2	What else o	does DSS	allow yo	u to do?
	what else t	1062 022	allow yo	

Feature	Benefits
Send to LAN Fax and Internet Fax	Allows sending faxes through LAN Fax and Internet Fax systems from DSS-enabled devices using the Fax icon, which offers a user-friendly interface with Speed Dials, address book etc.

Table 1-2 What else does DSS allow you to do? (continued)

Feature	Benefits
Public Address Book	Allows an administrator to maintain an address book which is accessible to all devices connected to the DSS server.
Personal Address Books	Gives each user of the DSS-enabled device a personal address book, which is accessible from any device connected to the DSS server.
	Users can manage the contents of their personal address book from the front panel of the device.
Microsoft® Exchange Contacts	Gives the user access to his/her Exchange Contacts within the e-mail- and fax address book of the device.
LDAP Replication	Offers a way to allow DSS-enabled devices to access the content of an LDAP address book through DSS. As the replication occurs at a schedule set by the administrator this feature can off-load the LDAP servers.
Address Book Manager	Allows an administrator to manage the contents of DSS address books.
Send to E-mail	With DSS the Send to E-mail jobs from connected devices can be routed through DSS. This provides the following benefits:
	 Allows scanning to e-mail in environments with strict SMTP security with minimal management effort.
	Supports several SMTP gateways for redundancy.
Optical Character Recognition (OCR)	Allows scanning to searchable text formats, such as PDF, XPS and RTF.
Device Management	Allows management of Digital Sending features on the entire fleet of DSS-enabled device from a user-friendly interface.

DSS vs Web Jetadmin

HP Digital Sending Software and HP Web Jetadmin are two different software products available from HP with very different value propositions. However, while the products are different there is still some overlap in functionality. The purpose of this section is to provide a basic understanding of the differences between DSS and HP Web Jetadmin.

HP Web Jetadmin is a fleet management tool designed to manage printers and Digital Sendingenabled devices on a network. Features include device configuration, firmware installation, remote diagnostics, alerting and reporting - to name a few. For instance, system administrators can use this tool to get alerts for specific error conditions, update firmware on the entire fleet of devices and create usage reports.

HP Digital Sending Software extends the embedded Digital Sending features of supported devices with features such as LAN Fax, OCR, Workflows and Personal Address Books. Where DSS may appear to overlap somewhat with Web Jetadmin is in that it also manages the Digital Sending settings for connected devices. In fact, when a device is connected to DSS it is only possible to manage the Digital Sending settings using the DSS Configuration Utility. Web Jetadmin can still be used to manage all other settings on the device. For more information on the values and capabilities of DSS, please refer to other sections of this document.

What is new in DSS 4.91?

With the release of DSS 4.91, several improvements have been made. DSS 4.91 provides the functionality of DSS 4.x on a new .NET platform and also adds support for DSS-enabled devices using the new HP firmware base code.

Component	Description		
	Adds support for Windows 2008, Windows 7 and Windows Vista.		
Operating system support	 Supported on R2 and 64-bit versions of these operating systems, but runs in 32-bit (x86) mode. 		
	Supports the HP ScanJet Enterprise 7000n Document Capture Workstation.		
Product compatibility	 Supports Digital Sending-enabled devices based on the new HP firmware code, starting with the HP M4555 MFP and CM4540 Color MFP. 		
	Configuration Utility window can be maximized and stretched		
	Supports simultaneous use by multiple administrators.		
	 Faster Configuration Utility start time as device status is only updated when selected by administrator. 		
	Device grouping.		
Configuration Utility	Miscellaneous UI improvements, such as progress bars.		
	Updated to I.R.I.S. engine version.		
	Improved text recognition.		
OCR engine	Improved performance and scalability.		
Send to E-mail	Secure e-mail channel (SMTP over TLS/SSL).		
	 PDF/A – Supporting PDF/A allows customers to meet ISO standards for long-term archival of electronic documents. 		
File types	Compact PDF (high compression of PDF files).		
	Exchange Contacts now via HTTPS. MAPI client no longer required.		
Addressing	Address Book Manager now integrated within the Configuration Utility.		
	• Multiple device configuration and copy/paste for device configuration replaced with templates.		
	Secondary e-mail replaced with SMTP over SSL.		
Poplaced outdated	Novell Bindery no longer supported for authentication.		
functionality	Windows Fax Service no longer supported.		

 Table 1-3
 Product improvements in DSS 4.91

2 Theory of operations

This chapter contains the following topics:

- <u>Components</u>
- Understand licensing

Components

Figure 2-1 DSS Components



DSS can be viewed as a system that consists of a number of components, where each component provides a specific set of features that allows the system to function as a whole. The above diagram shows the DSS components and how they are connected. The following covers each of these in detail.

DSS Service

the central nervous system of the HP Digital Sending Software is the service named "HP Digital Sending Software", typically called the "DSS service". This is the key component of the software that ties together all other components and enables the DSS system to function.

Internally, the DSS service is divided into several subcomponents and has dependencies. The below figure shows this at a high level:

Figure 2-2 DSS Service Architecture



Table 2-1 DSS Service – Technical Detail

Technical detail		
Service display name:	HP Digital Sending Software	
Service name:	DssWinService	
Executable name:	HP.Dss.App.WinService.exe	
Typical memory usage:	200-400MB	

Configuration Utility

The role of the Configuration Utility is to act as a management console for DSS. It provides a user friendly interface to manage all settings for DSS functions as well as devices.

The Configuration Utility is always installed with DSS, but can also be installed separately on a different computer on the network. When installed separately it is typically referred to as the "Remote

Configuration Utility", since in this mode it is used to manage a remote DSS server. The address of the server to be managed is entered in the startup dialog.



Executable name:	HP.Dss.App.ConfigurationUtility.View.exe	
Default window size:	1024x768	
Typical memory usage:	200-300MB	

DSS-enabled device

DSS-enabled devices are the HP MFPs, Digital Senders or ScanJet products that support DSS. These devices allow end-users to make use of DSS functionality by scanning to the various destination types, using the address book etc. See <u>Supported devices – Legacy device support</u> on page 5 for a complete list of supported devices.

The firmware in these devices has a component built-in which enables use of DSS functionality. In the previous generation products this is enabled through DSMP (Digital Sending Management Protocol). In HP's latest generation products this component has been replaced by a WS-* (Web Services Star) based interface.

Since all DSS features have to be supported by the device firmware DSS 4.91 has a minimum firmware version requirement, which can be found here <u>Table 3-3 DSS 4.91 supported device</u> <u>firmware revisions on page 25</u>. Over time, as new features become available in DSS, it may be required to update the device firmware for compatibility. These changes will be documented in detail in the DSS release notes.

Table 2-3 DSS-enabled devices – Technical Detail

Technical detail	
List of supported devices:	See Supported devices – Legacy device support on page 5
Minimum firmware version:	See <u>Table 3-3 DSS 4.91 supported device firmware revisions</u> on page 25
Feature matrix:	See Table 1-1 Feature comparison on page 7.

I.R.I.S. OCR engine

DSS uses I.R.I.S. OCR engine version 12 to provide Optical Character Recognition (OCR) and High Compression PDF functionality. The engine features Intelligent High Quality Compression (iHQC) technology[™].



The figure above shows how the process flow OCR processing in DSS. When DSS receives a job where OCR processing is required it invokes the I.R.I.S. OCR engine using COM (Component Object Model). The image data/document is transferred together with control parameters, such as the required output file type. Once OCR processing is completed the searchable document is passed back to DSS which delivers the document to the destination.

DSS is a multi-threaded application and will launch multiple instances of the OCR engine when there are multiple jobs in the queue that require OCR processing. We refer to this as 'parallel processing of OCR jobs'. This makes the OCR feature scalable, which means that average job processing times will be improved if the server's resources are improved. For instance, adding additional CPUs and more memory to the server will improve the average processing time of each OCR job when the server is processing multiple jobs simultaneously. This is a significant improvement over previous versions of DSS, where OCR processing was serial.

Table 2-4	I.R.I.S.	OCR engine –	Technical	Detail
-----------	----------	--------------	-----------	--------

Technical detail

OCR engine:

I.R.I.S. OCR engine version 12

Table 2-4 I.R.I.S. OCR engine – Technical Detail (continued)

Technical detail	
Default install directory:	C:\Program Files\DsOcrComSrvr
Executable name:	dpe_ocr123.exe
Languages supported:	I.R.I.S OCR 12 recognizes more than 120 languages

Database

DSS uses Microsoft SQL Server 2005 Express Edition to host the DSS database. The database is used to hold the DSS activity log.

	Table 2-5	Database –	Technical	Detail
--	-----------	------------	-----------	--------

Technical detail	
Database name:	HPDSS
Access security:	Windows Integrated Security

Local Data Store

The Local Data Store is the series of files located in the DSS installation directory, which is used to store the DSS configuration data, device information and debug logs. This is also where the job queue resides.

Table 2-6	Local Data	Store -	Technical	Detail
-----------	------------	---------	-----------	--------

Technical detail	
Default installation dir:	C:\Program Files\Hewlett-Packard\HP Digital Sending Software 4.91
Job queue dir:	.\ Filesystems\CustomerData\DSS\Jobs
Configuration dir:	. \Filesystems\Product\DSS\Configuration

Third-party tools

As the name indicates, third party tools are not a part of the DSS system. However, they are mentioned here because third party tools are required to deliver some of the DSS functionality as listed here:

- LAN Fax. This feature requires a compatible LAN Fax product. DSS enables the functionality by providing a Fax interface at the Digital Sending-device and then passing the fax job along with an HPF file (metadata) to a watched folder.
- **Internet Fax.** This feature requires an Internet Fax server. DSS enables the functionality by providing a Fax interface at the Digital Sending-device and then sending out an e-mail with the fax job attached.
- **Workflow.** One of the main ideas behind the Workflow feature is the ability to capture metadata at the Digital Sending-device and pass it on to a folder that is watched by a third party

application. This application is then able to read the metadata and further process and route the job.

• **Personal Address Book.** This feature requires a Microsoft Exchange Server that supports HTTP connections.

Remote Configuration Utility

The Remote Configuration Utility is a version of the Configuration Utility that is designed to install and operate on a remote computer.

Using the Remote Configuration Utility allows DSS configuration across the network.

- 1. Launch the Configuration Utility.
- 2. Click Another Computer.

Figure 2-5 Remote Configuration Utility

🇑 HP Digita	al Sending Software Configuration	×
	Configure the DSS Settings on	
ЩP.	This Computer	
	C Another Computer	
	Enter the Network Name of the PC running the DSS Service	
	OK Cancel Help	

- 3. Type in the network name of the DSS server.
- 4. Click OK.

Device firmware

DSS-enabled devices are "DSS aware," meaning they have components built into the firmware that allow them to make use of the services and features offered by DSS. Some DSS features require a minimum firmware level; therefore, the version of firmware loaded on the DSS-enabled device is important.

For example, the OCR processing feature for Send to E-mail requires a minimum firmware revision of 48.051.1 to work on the HP LaserJet M5035 MFP. If the firmware revision is not at least 48.051.1, the OCR processing feature for DSS Send to E-mail cannot function.

Understand licensing

This section contains the following topics:

- Trial license
- Licensing requirements
- Auto-generate license
- Node Locking

Trial license

When DSS is installed for the first time, you have the option of entering a license number or using the software on a 60-day evaluation basis. During the evaluation period, the software can support up to 50 Digital Sending-enabled devices. When the trial period expires, the software becomes inactive until a license is installed.

Licensing requirements

The **Licenses** section of the Configuration Utility **General** tab contains a Trial License entry where new licenses must be added. The remaining trial period also appears on that tab.

Seats	Part Number
1	T1936AA#UA0
5	T1936AA#0AD
10	T1936AA#0A9
50	T1936AA#0AA
250	T1936AA#UD6

DSS is available in five different seat configurations.

Each seat enables Digital Sending features on one device. As many licenses as needed can be installed to in order to accumulate seats.

Click Add on the General tab to type a new license key code for the HP Digital Sending Software.

Auto-generate license

The HP 9200C Digital Sender and HP 9250C Digital Sender devices auto-generate licenses after being added to an existing licensed DSS server. These are the only two DSS-enabled devices that auto-generate licenses.

Node Locking

Purchased licenses can be applied only to a specific DSS server. The node-locking process combines the license certificate with a unique ID from the DSS server. The unique ID appears on the **About** tab of the Configuration Utility as the **MAC Address**. This ID appears during and after the trial period. To activate the license certificate, record the **MAC Address** that appears on the **About** tab of the Configuration Utility and proceed to the HP Software License Manager Website at <u>licensing.hp.com</u>. At this Website, type the license certificate number and the MAC address. The Software License Manager activates licenses based on information located on the purchased license

certificate(s) and the server ID of the DSS server. After this information is entered into the Software License Manager, the generated licenses are delivered by fax or e-mail.

Figure 2-6 License Node Locking

IP Order Name	TB/T-/0.4973-02.1211/12					
Linese Number	successful file Centres Inset 12/10	1/2012				
Pendieri Nomber and Option	TotaliaA 1012 Queenty Delayed 10					
four house of lynness	30 S	10 HE P	fp Dayltal Senating S	Selfmary Configurat		121.
Peake (Short place	MP MLTB for Loren on Distance 2 LTD	Gen	ar Enal	Secondary Enal	Authentionen	Pas Fallers
			FAC Address(m)	0000590691		
•187 Name • Pa	hon & Services - Bussier & Doleses		Contains Reading	r (j.) 2004-8ir Step Tw PRO: Text Recognitor ant te Heuve, Delgton	e Software, Korraed fl	m1823
el 19 Marie el Transe offwarse Cranse Israngar	welcome to software license manager	- Saldana a	Pertons cave gr Contains Readrin Graup. Inc., Lour Contains Readring Graup. Inc., Lour	r pp 2004 Birstrag Te (RKD Text) Recognition and the Heuve, Belgium	mongs Follower, lowced fr	w1815 _
al III Noora offware License endadt artemation FAge ginter // Kansing	ADI & Several - Seguer & Sover welcome to software license manager Software license transper a viced Vice Unit on suffrages	seca for the disease	Persiden caper gri Contains Readres Sinado Int	PIC Test Receptor art to Neuro, Region	 Software, Samuel N M License: License Key Code: 	
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3 Installation and configuration

This chapter contains the following topics:

- Planning the DSS deployment
- Installation
- <u>Configuration</u>

Planning the DSS deployment

This section contains the following topics:

- <u>System and environment requirements</u>
- Backup and restore strategy
- Licensing
- <u>Device differences</u>

System and environment requirements

This section contains the following topics:

- <u>Software requirements</u>
- Hardware requirements
- Port requirements

Software requirements

The following table shows the server software requirements.

Area	Rec	uirements
Operating systems	•	Microsoft Windows XP
	•	Microsoft Windows Vista
	•	Microsoft Windows 7
	•	Microsoft Windows Server 2003, including R2
	•	Microsoft Windows Server 2008, including R2
	NO	TE: 64-bit operating systems are supported, but DSS runs in 32-bit mode
Virtual servers	•	VMware ESX 3.5 and later
	•	Microsoft Virtual Server 2005 and later
	•	Microsoft HyperV
Miscellaneous	.NE	T Framework 3.5
Novell	•	Novell Netware 5 or higher
	•	Novell Client 4.91 or higher for Windows XP/2003
	•	Novell Client 2 or higher for Windows Vista/7/2008

Table 3-1 DSS software requirements

Hardware requirements

The following table shows the server hardware requirements.

	Туре	Minimum	Recommended	Recommended for 1000 devices
Processor	See operating system documentation.	1 GHz	2 GHz	2 GHz, dual core
Memory	See operating system documentation.	1 GB of RAM	1 GB of RAM per server plus 3 MB per device.	4 GB
Page file	n/a	See operating system documentation.	See operating system documentation.	See operating system documentation.
Disk free space	n/a	400 MB on the drive where you install DSS (this is where jobs are spooled). 200 MB on the drive where you install the database.	1 GB on the drive where you install DSS (this is where jobs are spooled). 1 GB on the drive where you install the database.	2 GB on the drive where you install DSS. 2 GB for the database.
Screen resolution	n/a	1024 x 768 pixels	Larger than 1024 x 768	Larger than 1024 x 768
Network link	Ethernet	100 MB	1 GB	1 GB
Network link	NTFS	n/a	n/a	n/a
Virtual server	VMware ESX 3.5 and later			
	Microsoft Virtual Server 2005 and later			
	Microsoft HyperV			

Table 3-2 DSS hardware requirements

NOTE: Minimum requirement must be reserved on virtual servers.

Actual requirements vary depending on number of devices managed, features enabled and usage load. Note that heavy usage of OCR may have a significant impact on server performance.

Device firmware requirements

To support DSS features, some devices require a minimum revision of firmware. Over time, as new features become available in DSS, it may be required to update the device firmware for compatibility. These changes will be documented in detail in the DSS release notes.

Table 3-3 DSS 4.91 supported device firmware revisions

Device model	Minimum firmware revision
HP LaserJet 4100 and 9000 MFP	03.804.6
HP LaserJet 4345mfp	09.111.1
HP LaserJet 9040 / 9050 MFP	08.101.9
HP LaserJet 9055 / 9065 MFP	07.006.7, and requires the DSS JAR file version 4.0.0.0 to be installed. Contact HP support if an update is required.
HP Color LaserJet 9500mfp	08.101.9
HP Color LaserJet 4730mfp	46.191.2
HP LaserJet M3035mfp	48.051.1

Table 3-3 DSS 4.91 supported device firmware revisions (continued)

Device model	Minimum firmware revision
HP LaserJet M4345mfp	48.051.1
HP LaserJet M5035mfp	48.051.1
HP 9200c Digital Sender	09.111.1
HP 9250c Digital Sender	48.041.1
HP Color LaserJet CM3530 MFP	Any
HP Color LaserJet CM4730mfp	50.031.0
HP Color LaserJet CM6030 / CM6040 MFP	Any
HP CM8050 / CM8060 Color MFP with Edgeline Technology	Any
HP LaserJet M4555 MFP	Releases fall of 2010
HP CM4540 Color MFP	Releases fall of 2010
HP ScanJet Enterprise 7000n Document Capture Workstation	Releases fall of 2010

Port requirements

DSS 4.91 uses a number of industry standard network protocols and their corresponding TCP and UDP ports in order to facilitate its Digital Sending functionality, such as Send to E-mail, Send To Folder, Authentication, and LDAP Replication. This section gives an overview of which ports are used in different configurations.

In its most basic configuration, DSS 4.91 requires ports 1783, 5213, 7627 and 161 to function. At install time DSS will register itself with the desktop firewall to ensure connections are allowed on these ports. Administrators may refer to the table in this section to determine which ports are required for their specific configuration of DSS 4.91.

Ports used

DSS uses the TCP/IP protocol to communicate on the network. Which TCP or UDP ports are used depends on which features are enabled in DSS 4.91 and which underlying protocols facilitate these features. Also, note that for each protocol DSS acts as a server or client, or both. The following table provides an overview. Administrators should ensure that the required ports are open at appropriate points in the network, for example, desktop firewall, switches and routers.

Table 3-4 Ports used by DSS 4.91

Feature	Туре	Protocol	Port	Role of DSS	Can it be changed?
Device communication for current and legacy devices	Required	DSMP (HP Proprietary)	1783 (TCP)	Server & client	No
WS-* (WS-STAR), used for device communication for latest generation devices and for communication between DSS and the Configuration Utility	Required	HTTPS	7627 (TCP)	Server & client	No
Device discovery and configuration	Required	SNMP	161 (UDP)	Client	No
E-mail notifications, e-mail via service	Optional	SMTP	25 (TCP)	Client	Yes
Send to Folder (Network UNC path) ²	Optional	CIFS / SMB	445 (TCP)	Client	No
Send to FTP	Optional	FTP	21 (TCP)	Client	No
LDAP Replication & Authentication, simple bind	Optional	LDAP	389 (TCP)	Client	Yes
LDAP Replication & Authentication, simple over SSL bind	Optional	LDAP	636 (TCP)	Client	Yes

Table 3-4 Ports used by DSS 4.91 (continued)

Feature	Туре	Protocol	Port	Role of DSS	Can it be changed?
LDAP Replication & Authentication SPNEGO	Optional	Kerberos	88 (TCP)	Client	No
LDAP Replication & Authentication, Global Catalog	Optional	LDAP	3268 (TCP)	Client	Yes
DSS Address Book access for latest generation devices	Required	Secure SQL	5213 ³	Server	No

¹ If a mail gateway is not required, enter a dummy address (0.0.0.0) in the Configuration Utility.

² Does not apply to local folders, for example. c:\myfolder.

³ If another application is using 5213, a configuration file is available to override this port number.

DSS Address Book access for latest generation devices

HP's latest generation devices, starting with the HP ScanJet Enterprise 7000n Document Capture Workstation, HP M4555 MFP and HP Color CM4540 MFP, now access the DSS Address Book by connecting directly to the SQL database (which is running on the same server as DSS).

Hostname resolution

DSS 4.91 supports the use of hostnames for server addresses. Depending on the configuration of the host machine, DSS 4.91 will use NetBIOS/WINS (port: 137, 138 or 139)) or DNS (port: 53) for hostname resolution.

Backup and restore strategy

This section contains the following topics:

- Understand DSS data structures
- Software capabilities for backup and restore
- Scaling the DSS server

Understand DSS data structures

This section aims to provide an understanding of what data DSS manages in order to help customers develop a sound backup and restore strategy. The following describes the different types of data that makes up the DSS system and where it is stored.

Component	Location	Description	
Job logs	Database	Job logs for all devices are stored in the DSS database.	
Error logs	Database and Windows Event Log	The error logs show system events for information, warning and error conditions such as service stop and security audit.	

Table 3-5 DSS data
Table 3-5 DSS data (continued)

Component	Location	Description
Debug logs	[Install Path]\FileSystems\MachineData \Logs	DSS maintains a set of debug log files. These files are designed to help HP support debug issues with the DSS service, such as crashes, hangs etc.
DSS configuration settings	[Install Path]\FileSystems\Product\DSS \Configuration	Configuration data used by DSS is stored in a series of files found in the Configuration folder. This data includes things like SMTP gateway settings, LDAP addressing settings, Workflow settings etc.
Device information		DSS maintains a list of all the devices it manages in a binary configuration file. This file also contains some basic information about the device, such as the hostname, device model etc.
Device configuration settings	Stored on the device	All the device-specific configuration data is stored on the device itself. When required DSS will read back the data from the device, manipulate it and send it back.
Configuration Utility UI 'convenience' data	Windows Registry	For usability the DSS Configuration Utility will remember entries made into selected list boxes, as well as the state of the Configuration Utility window when closed.

Software capabilities for backup and restore

DSS features a backup and restore feature to allow for easy backup and restore of DSS data.

Back up DSS data

- 1. Open the DSS Configuration Utility.
- 2. On the **General** tab, click **Backup**. The **Backup DSS Settings** dialog box appears.
- 3. Navigate to the location where you want to save the backup file, and then click **Save**.

Restore DSS data

- 1. Open the DSS Configuration Utility.
- 2. On the General tab, click Restore. The Open dialog box appears.
- 3. Navigate to the location where you saved the backup file, click to select the file, and then click **Open**.

Scaling the DSS server

Correctly scaling/sizing a DSS server is a complex task which should include industry standard tools and methods. This section provides information specific to DSS to assist in the scaling process, but is not a complete reference.

Limitations

There is no hard limit to how many devices can be added to the server, but HP will support up to 1000 devices per server with DSS 4.91. Note that this limit may change in the future, so make sure to read the release notes when updates are available and look for information on the HP Website at: www.hp.com/go/dss.

Features and factors that limit scalability

Most features offered by DSS are fairly lightweight in terms of server processing, with the exception of the following.

- Optical Character Recognition (OCR)
- High compression PDF
- LAN fax with notification support

Other factors that limit scalability include the following.

- Utilization/scan job volume
- Routing jobs through DSS
- Very large DSS address books
- Complex workflow design

Recommendations

Given the factors stated above, DSS administrators should consider the following approaches to improving the scalability of DSS:

- Limit OCR to specific workflows.
- Configure devices to send e-mail directly via the SMTP gateway, rather than via DSS.
- Configure devices to use direct LDAP address book.
- Use the notification features of the LAN Fax server.
- For OCR intensive environments, use high performance servers and use multiple servers to divide the load.

It is recommended to perform a pilot test of a given DSS configuration prior to wide scale roll-out. During the pilot administrators should make sure to test all the required DSS features on a limited number of devices while using the Windows performance monitoring tools to assess the impact on server performance.

Licensing

In order to use the features of this version of the DSS, you must purchase and install at least one device license. These licenses come in bundles of 1, 5, 10, 50 and 250 device licenses (device licenses are sometimes also referred to as "license seats").

Each seat allows you to enable DSS features on one DSS-enabled device. Adding licenses is cumulative and there is no limit to the number of license seats you can add to one server. See<u>Scaling</u> the DSS server on page 29 for information about how to scale the DSS server.

Activating licenses

To prevent misuse DSS licenses are protected by node locking technology. This means that licenses need to be activated before they can be used. Activation occurs by registering the license on the HP Software License Manager site: <u>licensing.hp.com</u>.

To register the license the following information is required:

• The License Number found on the Software License Certificate.

Figure 3-1 DSS License Certificate

— Digital Sending Software License Key Code Certificate



Retain this Certificate as proof your Right to Use.

Product Number and Option	xxxxxx xxx	Date	24-Jun-05
HP Order Number	XXXXXXXXXXX	License Number	xxxxxxxxxx
Product Description	DSS 4.0 - 50 Device License	9	

- The MAC address of the server where DSS is installed (you can find this information in the **About** tab of the DSS Configuration Utility).
- Your contact information.

After entering this information into the Software License Manager an activated license key is generated and delivered to the screen, and via fax or e-mail.

Install licenses

The activated license key is in the format XXXX-XXXX-XXXX-XXXX. The key is entered in the General tab for the Configuration Utility, which will then show the number of seats provided by each license key, as well as the total accumulated number of seats.

HP Digital !	Sending So	oftware Configurat	ion								_ 🗆 🗵
General	E-mail	Authentication	Fax	Send to Folder	Workflows	Addressing	Device Configuration	Log	About	Template Configuration	
License Files	s'				·, ·			1. I.			
		Туре		Seats		Code					
	Ac	ld		Ren	ove			Total Seats		2000	-
Administratio	on Informati	on				Dhara N					
Name						Phone INI	umber				
E-mail Addr	ress					Location					
							<u>.</u>				
Notify ad	dministrator	of critical errors									
Backup and	Restore										
Backup Restore	p										
							1	ОК	Cano	cel Apply	Help

Figure 3-2 Install licenses

Trial or demo license

When DSS 4.91 is installed for the first time, the software is fully functional in trial mode, supporting 50 devices for 60 days. The License section of the DSS Configuration Utility displays a "Trial License" message and the time remaining in the trial period. The trial license period cannot be extended. Once the trial license expires, customers must install a valid license to continue using DSS.

Upgrading from previous products

Licenses from DSS 3.0 and earlier revisions of DSS 4.x are fully functional in DSS 4.91. For DSS 3.0 it is required to manually enter each license key into the General tab in the Configuration Utility. For earlier revisions of DSS 4.x the licenses are carried over through the backup/restore feature.

Node locking

DSS licenses are protected by node locking. For more information, see the <u>Node Locking on page 20</u> section of this guide.

Device differences

As part of planning the deployment of a DSS server it is important to understand the Digital Sending features available in the various device models in the environment. See <u>Table 1-1 Feature</u> <u>comparison on page 7</u> for more information.

Installation

This section contains the following topics:

- Pre-installation checklist
- Installer screens and options

Pre-installation checklist

- 1. Review the hardware and software requirements for the DSS server. See <u>System and</u> <u>environment requirements on page 24</u> for more information.
- 2. Verify that devices planned for connection to DSS have the minimum required firmware.
- If you are upgrading from a previous version of DSS, make a backup of the existing configuration.
- 4. The MAC address of the server that will host the DSS service.

Installer screens and options

Follow these steps to install the HP Digital Sending Software 4.91.

- 1. After downloading the software to your computer or network, close all programs that are open on the computer.
- 2. Navigate to the location on the computer or network where you downloaded the HP Digital Sending Software 4.91 software, and double-click the **setup.exe** file.

3. The Welcome screen appears. Click Next to continue.



4. The License Agreement screen appears. Click Print to print a copy of the license agreement. Click I do not accept the terms in the license agreement, and then click Next to cancel the installation.

After reading the license agreement, click to select **I accept the terms in the license agreement**, and then click **Next** to continue the installation.

- 5. The Windows Firewall Configuration screen appears. Click to select the Allow this service to accept incoming network requests. check box, and then click Next to continue.
- 6. The **Destination Folder** screen appears. Click **Browse** to select a different destination folder. Click **Full Installation** or **Configuration Utility Only**, and then click **Next** to continue.
- 7. The **Ready to Install the Program** screen appears. Click **Back** to go back to change installation options. Click **Install** to start the installation.
- 8. The **Microsoft SQL Server 2005 Setup Progress** screen displays the installation progress for the SQL server.
- 9. The **Installing HP Digital Sending Software 4.91** screen shows the progress of the software installation.
- 10. When the installation completes, the InstallShield Wizard Completed screen appears. Based on your configuration and the options installed, a reboot of the DSS server may be required. Click the Launch HP Digital Sending Software 4.91 check box to launch the software when the installer closes. Click the Show me the readme file check box if you want to see the product readme file when the installer closes. Click Finish to complete the installation.

Configuration

The HP Digital Sending Software (DSS) executes as a Windows service and allows users to scan documents at Digital Sending-enabled devices, and send the scanned images to various types of destinations (such as e-mail, fax and folder). This software package includes a Configuration Utility that allows you to set up DSS features in a way that works best in your environment. Each DSS feature must be configured before it is available for use on Digital Sending-enabled devices.

This section contains the following topics:

- Configuration Utility
- Licensing
- Device management
- <u>Authentication</u>
- General Device configuration
- Send to Folder
- Send to E-mail
- Send to Fax
- Send to Workflows
- Addressing

Configuration Utility

The Configuration Utility manages settings that apply across all Digital Sending-enabled devices, such as e-mail server and Authentication method, and also settings that apply to specific devices.

The Configuration Utility has several display elements to assist you in knowing what data is required to make DSS features available on devices.

Figure 3-4	Configuration Utility elements	
------------	--------------------------------	--

HP Digital	Sending So	oftware Configurat	ion							_ 🗆 ×
General	E-mail	Authentication	Fax	Send to Folder	Workflows	Addressing	Device Configuration	Log Ab	out	
🔽 Enable Sa	ve to Networ	rk Folder	telene	\			511		20	
Predefined I	Folders		Prede	efined Folder					_	
Display f	lame	1	0	 Name is required UNC Folder Path 	is required.					
			Name a	and Description						
			Desci	ription						
			Select	the folder type for this ve to a standard sh NC Folder Path	s Quick Set. —— ared network fo	older				
Add	to Access Pul	Edit	(\ C Sa Rec	\path\path) ve to a personal sh quires user sign in and	ared folder I information spe	tific to the user to	o create folder path.			
Sign In Me	thod		∏ Cr Ap	eate Subfolder bas pends a user name s	ed upon userna ubfolder at the er	me d of the folder pa	ath.			
Username				Only allow access	to user's own D	irectory				
Password					NDS	Context				
							ОК Са	ncel A	pply	Help

Table 3-6 Configuration Utility elements

Callout	Component	Description
1	Exclamation point	An exclamation point (!) next to the name of a tab indicates that required data for that feature has not been supplied.
2	Asterisk	An asterisk (*) next to the name of a tab indicates that data has been entered, but not yet applied. The Apply button must be clicked in order to save the settings.
3	Outline	Required data is highlighted with an outline around the necessary setting. In this diagram the Name and UNC Folder Path settings are highlighted to indicate that those are required.

Licensing

This section contains the following topics:

- Add licenses
- Remove licenses
- <u>Auto-generated licenses</u>

Add licenses

1. In the DSS Configuration Utility, click the **General** tab.

	• • • • • • • • • • •									
P Digital	Sending Software Configuratio	n								
eneral	E-mail Authentication	Fax Send	to Folder	Workflows	Addressing	Device Configuration	Log	About	Template Configuration	
-1	I.	1					1 - 1			
ense File	s				- 1		í			1
	туре	Sea	IS		Code					
	Add 1		Barrow	- 1			Total Co	ate	2000	
	Add		Kelliov	<u>,c</u>			10(a) 36	ats	2000	
ninistratio	on Information									
me					Phone N	umber				
nail Addr	ress				Location					
						0				
					1000					
Notity ac	iministrator of critical errors									
kup and	Restore									
Backup	p									
Restor	e									
							ок	Car	Apply	Help
								_		15000

Figure 3-5 General tab – DSS Configuration Utility

2. In the License Files section, click Add. The Add License dialog box appears.

Figure 3-6 Add License dialog box

icense Kev Code:	
Example: 1234-5678-9	0AB-CDEF-0000
OK	Cance

- 3. Type in the 20-digit license key code for the license you are installing, and then click **OK**.
- 4. The new license appears in the License Files list and the Total Seats field updates to reflect the additional seats provided by this license.

Remove licenses

In rare instances it is necessary to remove licenses from the DSS server. One condition that would prompt license removal from a DSS server would be to install those licenses on a new DSS server to provide hardware redundancy.

1. In the DSS Configuration Utility, click the **General** tab.

HP Digital !	Sending Soft	tware Configura	ation												_0
General	E-mail	Authentication	Fax	Send to	Folder	Workflows	Address	ing	Device Configuration	on	Log	About	1	Template Configuration	
License Files	5														
	Ту	/pe		Seats			Cod	e							
															-1
		- 1				1					Table Car	- T		2000	
	Add				Remit	JVe					TOLAT Sec	105		2000	
Administratic	on Information	1													
Name							Ph	one Nur	nber						
1															
E-mail Addr	ess						Loc	cation							
10															
I_Notify ad	lministrator of	critical errors													
Backup and I	Restore														
Backup	<u>,</u>														
Pector	.														
Kestore	<u> </u>														
											OK		Cancel	Apply	Heln
										_	UN	`			1.0.0

Figure 3-7 General tab – DSS Configuration Utility

- 2. In the License Files section, click the license you want to remove, and then click Remove.
- 3. The license is removed from the **License Files** list and the **Total Seats** field updates to reflect the current number of seats provided by any remaining licenses.
- NOTE: If by removing a license, your total number of seats falls below the number of Devices you currently have configured for Digital Sending features, you will be required to remove Devices from the **Device List** on the **Device Configuration** tab to match the number of remaining sets available.

Auto-generated licenses

The HP LaserJet 9200c and 9250c devices auto-generate a license for use in DSS. This means that no additional license seat is required for these devices. Once these devices are managed by DSS they will automatically generate a license that shows up in the DSS Configuration Utility.

Device management

The **Device Configuration** tab on the Configuration Utility specifies which devices are using the DSS service and also provides an interface for customizing DSS features for specific devices.



Figure 3-8 Device Configuration tab

The Device Configuration tab contains the following elements.

Table 3-7	Device	Configuration tal	C
-----------	--------	--------------------------	---

Callout	Component	Description
1	Group List	Use this list to organize and filter the devices using the DSS service.
		• Add Group. Click to create a new group.
		• Remove Group. Click to remove a group.
		• Rename. Click to change a group name.

Callout	Component	Description
2	Device List	This list shows the individual devices using the DSS service as well as the features that are enabled or not enabled on each device. The Device List contains the following headings:
		• Status
		• Name
		Authentication icon
		Send to E-mail icon
		• Fax icon
		Send to folder icon
		Send to workflows icon
		Addressing icon
		Model
		Network ID
		Description
3	Add Device	Click to connect a new device to the DSS service. Once added, the device will appear in the Device List.
4	Remove Device	Click to select a device from the list, then click this button to remove the device.
5	Device Sign-in	Click this button to configure the device sign-in settings.
6	Total Devices	Displays the total number of devices in the Device List .
7	Configure Device	Click to select the device you want to configure, then use the sub-tabs to configure DSS features for the selected device.
8	Apply	Click this button to save changes made on this tab.

Table 3-7 Device Configuration tab (continued)

Add and remove devices

Add a device

1. On the DSS server, open the Configuration Utility and click the **Device Configuration** tab.

🍿 HP Digital Sending Software Configuratio	ı										<u>- 0 ×</u>
General E-mail Authentication	Fax	Send to Folder We	orkflows		Addressing	Device	Configuration	Log Al	out Tem	plate Configuration	
Group List	Device	List									
Device Groups	Status	Name	<u>A</u>		8 🖸		M	odel	Network I	D Descrit	tion
	۲	192.168.0.10	8	0		00	HP LaserJet M	9050 MFP	XX.XX.XX.X	K HP LaserJet M90	50 MFP
My Group	۲	192.168.0.11	3	3	8	Ø	HP Color Laser	Jet CM3530 M	FP xx.xx.xx.x	K HP Color LaserJe	t CM3530 MFP
Add Group		Add Device			Re	move Device	B	Device	e Sign In	Tota	Devices 2
Remove Group		Export				Import				Confi	gure Device
Rename											
								ок	Cancel	Apply	Help

Figure 3-9 Device Configuration tab

2. Click Add Device. The Add Devices dialog box appears.

Figure 3-10 Add Devices dialog box

Add Devices				
When adding new devices, copy settings from	Seats Available	- Device List:		
<default settings=""></default>		Model	[[cNetworkID]]	Descr
Manually enter a Device's network name Hostname or IP address		HP LaserJet M5035 MFP	XX.X.XXX.XX	HP LaserJet M5035 MFP
Devices on the network Model [[cNetworkID]] Descri				
	•			
		٢	(41)	
Find Devices 0				ОК Неір

- 3. Click **Find Devices** to display a list of the DSS-enabled devices on the network.
- 4. From the displayed list, select the device to be added.

- NOTE: If you know the hostname or TCP/IP address of the device, you can type it in the Hostname or IP Address text box under Manually enter a device's network name instead of using the Find Devices button.
- 5. Click > to add the device to the Device List.
- NOTE: You can add only as many DSS-enabled devices as there are seats available in the DSS license. The number of seats available appears near the top of the **Add Devices** dialog box.
- 6. Click **OK** to close the **Add Devices** dialog box.

Remove a device

1. On the DSS server, open the Configuration Utility and click the **Device Configuration** tab.

HP Digital	Sending Soft	ware Configur	ation														
General	E-mail	Authentication	Fa	x	Send to Folder	Workflows		Addre	ssing	D	evice	Configuration	Log	About	: Templa	ate Configuratio	n
Group List				Device	List												
Device Group	ps			Status	Name	8			D			М	lodel		Network ID	Des	cription
All Device My G	es iroup			۲	192.168.0.10	8	0	0	0	۲	⊗	HP LaserJet M	9050 MFP	(XX.XX.XX.XX	HP LaserJet N	19050 MFP
				۲	192.168.0.11	8	8	8	0	0	8	HP Color Laser	rJet CM353	30 MFP	XX.XX.XX.XX	HP Color Lase	arJet CM3530 M
				•													
	Add Group	p			Add D	evice			Re	move	Device	a	D	evice Sig	in In	т	otal Devices
	Remove Gro	oup			Ex	port				Imp	oort					0	onfigure Device
	Rename	2															
												1	01	1			1
													OK		Cancel	Apply	Help

Figure 3-11 Device Configuration tab

2. In the **Device List**, click to select the device you want to remove, and then click **Remove Device**. The **Remove Device** dialog box appears.

HP Digital Send	ling Software		_0>
The device 10.10.48	3.90 has Digital	Sending features en	abled.
Are you sure you wa	ant to remove it	from the list?	
	No.		81- k- 811
	Vaa	No.	Alo to All

Figure 3-12 Remove Device dialog box

3. Click Yes (or Yes to All if you are removing multiple devices) to remove DSS-enabled devices.

Device configuration

After adding a new device (or group of devices), use the following procedure to configure the Digital Sending features for the device or group.

- 1. On the DSS server, open the Configuration Utility and click the **Device Configuration** tab.
- 2. Select a device from the **Device List**.
- Click Configure Device. The dialog box that appears looks similar to the main Configuration program interface. Use this interface to customize the specific Digital Sending settings for this device.
- NOTE: Use this interface to enable the Digital Sending features for the individual devices. Even if a feature is enabled on the DSS configuration tabs, it is not available on the device until it has been enabled in the **Configure Device** interface.
- 4. On the **Authentication** tab, click to select the check box for the authentication method you want to use to enable authentication for the selected device. Select the check boxes next to the features that are being enabled. Enabling authentication requires the user to log in before using the selected features. Select the network domain from the **Default Domain** drop-down menu.
- On the Send to E-mail tab, select the Enable Send to E-mail check box, and select via the Digital Sender service in the Send E-mail drop-down list.

Then use the controls in the Address and Message Field Control, Signing and Encryption, and File Settings sections to customize the Send to E-mail settings for the selected device.

- 6. On the Addressing tab, select the Enable Network Contacts (use LDAP server) check box if DSS should retrieve e-mail addresses directly from an LDAP server. Enter the LDAP server Hostname or IP address, or click the "Auto Find" button. Then enter the LDAP port number (usually 389).
- 7. On the **Fax** tab, select the **Enable Fax Send** check box to enable the fax feature. Select the desired fax method in the drop-down menu.
- 8. On the **Send to Folder** tab, select the **Enable Send to Folder** check box to enable this feature.

- 9. On the **Send to Workflows** tab, select the **Enable Send to Workflows** check box to enable workflows and configure settings.
- 10. Click **Apply** to save all of the changes.
 - NOTE: The settings are not propagated to the device until **Apply** is selected.

Understanding the Device List

The **Device List** on the **Device Configuration** tab shows the Digital Sending-enabled devices that are currently being served by DSS. The icon to the left of the device name indicates the status of the device.

Table 3-8 Device List icons

lcon	Description
0	Communication with the device is established and the configuration settings are known.
۲	The device configuration has not been retrieved since the Configuration Utility was loaded.
, 5	DSS is unable to establish communication with the device and the settings are unknown.
8	The device was seized by another computer that is running the Configuration Utility. The TCP/ IP address of the other computer is available under the Status heading on the Device List . To reclaim ownership of a seized device, right-click the crossbones icon and click OK in the two dialog boxes that appear.

Device grouping

Device grouping is a new feature in DSS 4.91 and provides the ability to organize devices for more efficient configuration and management.

🌆 HP Digital Sending Software Configuration		
General E-mail Authentication Fa	ax Send to Folder Workflows Addressing Device Configuration Log About	
Group List	Device List	
Device Groups	Status Name 🔒 🖂 🚍 😵 📖 Model Network ID	Description
All Devices Building 2	🖉 XX.X.XXX.X 🥑 🧭 🧭 🧭 🧭 HP Scanjet Enterprise 7000n XX.X.XXX.X HP Scanjet Enterp	prise 7000n Docur
	🚱 XX.X.XXX.X 🔇 🥑 🧭 😵 🤡 Ip LaserJet 9040 MFP XX.X.XXX.X hp LaserJet 9040	MFP
Color MFPs Mono MFPs ⊡ Scanners DS9250c ScanJet 7000n	1	×
Add Group	Add Device Device Sign In Te	otal Devices 2
Remove Group	α	onfigure Device
Rename		
	OK Cancel Apply	Help

Figure 3-13 Device grouping

Create a device group

- 1. Open the Configuration Utility and click the Device Configuration tab.
- 2. Select the group in which you want to add a new group or select **All Devices**. Device groups can be nested within other groups.
- 3. Click Add group.
- 4. Type a name for the new group.

Add devices to a group

- 1. Right-click on a device and select **Add to Group**.
- 2. Click the desired group for this device.

Remove devices from a group

- 1. Right-click on a device and select **Remove**.
- 2. Click Remove from Group.

Authentication

Authentication is a security feature that requires users to provide a network username and password before using Digital Sending features. Authentication can be turned on or off for each device that the DSS supports.

NOTE: At no time are the credentials that are used to authenticate at the device written to either the DSS server or the device hard disk. In addition, although the credentials that the DSS administrator uses to configure authentication or LDAP addressing are written to the DSS server hard disk, a hashing algorithm is incorporated to ensure that these credentials cannot be recovered.

Configure DSS

This section contains the following topics:

- Authentication methods
- LDAP bind
- <u>How to</u>

Authentication methods

This section describes the three methods of authentication:

- LDAP authentication
- Windows Active Directory
- Novell authentication

LDAP Server



The LDAP Server option on the **Authentication** tab contains the following elements.

Table 3-9	Authentication tab - I DAP Server
1 able 3-9	Authentication tab – LDAP Server

Callout	Component	Description				
1	Authentication method	Select LDAP Server from the drop-down menu.				
2	LDAP Sign In Setup	Use the following fields to set up the sign-in method.				
		LDAP Server address				
		Port number				
		Bind prefix				
		Bind and Search Root				
		Match the name entered with this attribute				
		• Retrieve the device user's e-mail address using this attribute				
		Retrieve the device user's name using this attribute				
		Retrieve the device user's group using this attribute				
		To allow an exact match only, click to select the Exact match on Group attribute check box.				
3	Test LDAP Sign in	Type information into the following fields, and then click Test to test the LDAP Server sign-in setup.				
		• Username				
		Password				

LDAP is a standard, extensible directory-access protocol. It is a common language that LDAP clients and servers use to communicate with each other. LDAP is a message-oriented protocol. The client constructs a message that contains a request and sends it to the server. The server processes the request and sends back the result in a series of LDAP messages. LDAP is also a connection-oriented protocol. The client opens a connection and performs any number of operations on the same connection.

For the LDAP server bind method, LDAP authentication uses either the Simple or the Simple over SSL method. See <u>Table 3-12 Authentication bind methods on page 53</u>.



Microsoft Windows

Figure 3-16 Authentication tab – Microsoft Windows

🖗 HP Digital Sending So	ftware Configur	ation						
General E-mail	Authentication	Fax Send to Fold	er Workflows	Addressing	Device Configuration	Log About		
Authentication Method								
LDAP Server		~						
LDAP Sign In Setup								
LDAP Server Address			0.0.0.0					
Port Number			389					
Bind Prefix								
Bind and Search Root								
Match the name entered wi	ith this attribute							
Retrieve the device user's e	e-mail address using	this attribute						
Retrieve the device user's r	name using this attri	ibute						
Retrieve the device user's g	group using this attr	ibute	objectClass					
			Exact match on G	roup attribute				
Username			Password					
							Test	
						ок	Cancel Apply	Help
	IP Digital Sending So General E-mail Authentication Method IDAP Sign In Setup LDAP Sign In Setup LDAP Server IDAP Server Address Port Number Bind Prefix Bind and Search Root Match the name entered w Retrieve the device user's of Test LDAP Sign In Username	IP Digital Sending Software Configur General E-mail Authentication Authentication Method IDAP Server DLDAP Server Address DDAP Server Address Port Number Bind and Search Root Match the name entered with this attribute Retrieve the device user's e-mail address using Retrieve the device user's group using this attribute Text IDAP Sign In Username	IP Digital Sending Software Configuration General E-mail Authentication Fax Send to Fold LDAP Says In Setup LDAP Says In Setup LDAP Server Address Port Number Bind And Search Root Match the name entered with this attribute Retrieve the device user's e-mail address using this attribute Retrieve the device user's group using this attribute Test LDAP Sign In Username	IP Digital Sending Software Configuration General E-mail Authentication Fax Send to Folder Workflows Authentication Method IDAP Server IDAP Server Address 0.0.0.0 LDAP Server Address 0.0.0.0 389 389 Bind Prefix 389 389 Bind and Search Root Image: Server S	IP Digital Sending Software Configuration General E-mail Authentication Fax Send to Folder Workflows Addressing Authentication Method Image: Configuration Image: Configuration Image: Configuration Authentication Method Image: Configuration Image: Configuration Image: Configuration LDAP Soner Image: Configuration Image: Configuration Image: Configuration Image: Configuration LDAP Soner Image: Configuration Image: Configuration Image: Configuration Image: Configuration LDAP Soner Image: Configuration Image: Configuration Image: Configuration Image: Configuration LDAP Soner Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration Image: Configuration	IP Digital Sending Software Configuration General E-mail Authentication Fax Send to Folder Workflows Addressing Device Configuration Authentication Method IDAP Server IDAP Server Address 0.0.0.0 IDAP Server Address LDAP Server Address 0.0.0.0 IDAP Server Address 0.0.0.0 IDAP Server Address 0.0.0.0 IDAP Server Address IDAP Server Address IDAP Server Address 0.0.0.0 IDAP Server Address IDAP Server Address IDAP Server Address 0.0.0.0 IDAP Server Address IDAP Server Address IDAP Server Address 0.0.0.0 IDAP Server Address IDAP Server Address IDAP Server Address 0.0.0.0 IDAP Server Address IDAP Server Address Bind And Search Root IDAP Server Andress IDAP Server Address IDAP Server Address Retrieve the device user's name using this attribute IDAP Server Address IDAP Server Address IDAP Server Address Viewmanne IDAP Server Address Server	IP Digital Sending Software Configuration General E-mail Authentication Fax Send to Folder Workflows Addressing Device Configuration Log About Authentication Method Image: Configuration Log About Authentication Method Image: Configuration Log About Authentication Method Image: Configuration Log About IDAP Says D.0.0 D.0.0 Device Configuration Log About IDAP Says D.0.0 D.0.0 D.0.0 D.0.0 D.0.0 Device Configuration Log Device Configuration Exec Device Configuration Exec Device Configuration Exec Device Configuration Device Configuration Device Configuration Device Configuration Exec Device Configuration Device Configuration	#P Digital Sending Software Configuration General E-mail Authentication Fax Send to Folder Workflows Addressing Device Configuration Log About Authentication Method IDAP Server IDAP Server<

The Microsoft Windows option on the Authentication tab contains the following elements.

Callout	Component	Description					
1	Authentication method	Select Microsoft Windows from the drop-down menu.					
2	Windows Sign in Setup (Kerberos and NTLM)	Click Add to add domains to the Trusted Domains list. Click Remove to remove domains from the list. Select the Default Windows Domain from the drop-down menu. Use the following fields to set up the sign-in method.					
		• Match the name entered with this attribute					
		Retrieve the user's e-mail address using this attribute					
3	Test Windows Sign In	Type information into the following fields, and then click Test to test the Microsoft Windows sign-in setup.					
		• Domain					
		• Username					
		Password					

Table 3-10	Authentication t	tab – Microsoft	Windows
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DSS Windows authentication uses Microsoft Active Directory, a special-purpose database that contains information about objects, including users, that are contained within the domain. The Active Directory database resides on domain controllers and is automatically replicated across all domain controllers in the domain. Active Directory provides an LDAP interface to the data in the directory database.

As shown in <u>Figure 3-17 Windows Active Directory authentication on page 50</u>, the following steps occur during Windows authentication:

- 1. The user types his or her username and password at the device. This information is securely transmitted to the DSS server.
- 2. The DSS program authenticates to the domain through the Windows API to validate the user's credentials.
- 3. If the user's credentials are correct, the Domain Controller returns either the security identifier (SID) or the BSID (Binary SID).
- 4. Using the LDAP interface, DSS queries the LDAP directory for the authenticated user's e-mail address.
- 5. The LDAP directory returns the authenticated user's e-mail address.
- 6. DSS inserts the authenticated user's e-mail address in the **From:** text box of the e-mail and prohibits the user from changing the field.



Figure 3-17 Windows Active Directory authentication

Determining the LDAP server bind method for Windows

By default, Active Directory is not configured to accept anonymous queries for information that is contained in the Active Directory store. When an administrator configures LDAP addressing or authentication, he or she must decide between changing Active Directory to accept anonymous queries and configuring DSS to have authenticated access. If Active Directory is configured for anonymous access, DSS can be configured to do an anonymous LDAP query. If Active Directory is *not* configured for anonymous access, DSS must be configured for either Simple or SPNEGO authentication. Because Active Directory supports SPNEGO for backward compatibility with Windows clients, it is the preferred method for configuring DSS authentication. SPNEGO authentication uses either Kerberos or NTLM, depending on the environment.

NOTE: The username and password that are used in the Simple method of authentication are transmitted over the network in cleartext. This means that this information can be read by anyone who has access to the data on the network.

To configure Active Directory Services for an anonymous LDAP query

- 1. Open the Active Directory Users & Computers Microsoft Management Console program.
- 2. Right-click the Users container and then select Properties.
- 3. Click the **Security** tab.
- 4. Click Add.
- 5. Select Everyone and then click Add.
- 6. Click OK.
- 7. Click Advanced.
- 8. Select Everyone.
- 9. Click View/Edit.

- 10. In the Apply onto drop-down list, select This object and all child objects.
- 11. Click Apply.
- 12. Click OK to close the Properties dialog box.
- 13. Right-click **Users** and then click **Refresh**.

Figure 3-18 Authentication tab – Novell NDS

NOTE: Enabling anonymous access to the **Users** container might also enable other anonymous users (for example, the Guest logon) to view LDAP properties. For more information about security and Active Directory, consult Microsoft support.

Novell NDS

General E-mail Authentication Fax Send to Folder Workflows Addressing Device Configuration Log About - Authentication Method	About
Authentication Method	
Remove Default Tree Remove Image: Context to the first to the fi	
Novell NDS Sign In Setup Trees Default Tree Add	
Trees Default Tree Add Remove Remov	
Add Remove Novell Server Address Context Bind Prefix	
Remove Novell Server Address Context Bind Prefix Bind Prefix	
Remove Novell Server Address Context Bind Prefix Server down Prefix	
Remove Novell Server Address Context Bind Prefix Berd and bank Part	
Remove Novell Server Address Context Bind Prefix Server down Prefix	
Novell Server Address Context Bind Prefix Bind areh Data	
Context Bind Prefix Bind prefix	
Bind Perfix	
Bind Prefix	
Rind and Canada Deat	
Test Novell NDS Sign In	
NDS I ree NDS Context Bind Pretix	
Test	

The Novell NDS option on the Authentication tab contains the following elements.

Table 3-11 Authentication tab – Novell NDS

Callout	Component	Description
1	Authentication method	Select Novell NDS from the drop-down menu.

Callout	Component	Description			
2	Novell NDS Sign in Setup	Click Add to add trees to the Trees list. Click Remove to remove trees fr the list. Select the Default Tree from the drop-down menu.			
		Use the following fields to set up the sign-in method.			
		Novell Server Address			
		• Context			
		Bind prefix			
		Bind and Search root			
3	Test Novell NDS Sign in	Type information into the following fields, and then click Test to test the Novell NDS sign-in setup.			
		NDS Tree			
		NDS Context			
		Bind prefix			
		• Username			
		Password			

Table 3-11 Authentication tab – Novell NDS (continued)

Only Novell NDS authentication is available. This method integrates with Novell Directory Services.

For the LDAP server bind method, Novell can use either Simple or Anonymous. See <u>Table 3-12</u> <u>Authentication bind methods on page 53</u>.

As shown in <u>Figure 3-19 Novell authentication on page 53</u>, the following steps occur during Novell authentication:

- 1. The user types his or her username and password at the device and this information is securely transmitted to the Digital Sending Service (DSS).
- DSS authenticates to the directory through the Novell client API to validate the user's credentials.
- 3. If the user's credentials are correct, the Novell Directory Server returns success.
- 4. Using the LDAP interface, DSS queries the LDAP directory (Novell Directory Server or Novell eDirectory Server) for the authenticated user's e-mail address.
- 5. The LDAP directory returns the authenticated user's e-mail address.
- 6. DSS inserts the authenticated user's e-mail address in the **From:** text box of the e-mail and prohibits the user from changing that field.





Novell NDS configuration

When setting up Novell NDS authentication on the **Authentication** tab, the **Search Root** text box is typically left blank. Then, on the Device configuration **Authentication** tab, information is provided about the **Default NDS Tree** and **Default NDS Context**. When users log in at the device, the default NDS tree and context are shown on the login screen, and the user can edit them if necessary.

LDAP bind

This section contains the following topics:

- LDAP bind methods
- Search root

LDAP bind methods

Authentication can be performed by using Microsoft Windows, an LDAP server, or Novell NetWare. The authentication process also retrieves the user's e-mail address, so that the sender's address is automatically supplied in the **From:** text box when the e-mail is sent. Because the address cannot be changed or erased, users are prevented from sending e-mail using a fictitious return address.

E-mail retrieval is carried out by connecting to a local LDAP server using one of four possible bind methods. The following table outlines the types of LDAP bind methods that are used for DSS.

Bind method	Description	Can be used by
Anonymous	The selected LDAP server does not require user credentials to gain	Windows
		Novell

Table 3-12 Authentication bind methods

Table 3-12 Authentication bind methods (continued)
--	------------

Bind method	Description	Can be used by
Simple	The selected LDAP server requires user credentials but does not	Windows
		Novell
	 The password, if any, is sent non-encrypted across the network. 	LDAP
	• The process requires a username and password.	
Simple over Secure	The selected LDAP server requires user credentials but does not support NTLM or SPNEGO	Windows
	support when or wedge.	LDAP
	 All data, including the username and password, is encrypted by using the Secure Sockets Layer (SSL). 	
	• The LDAP server must be set up to support SSL.	
Windows Negotiated (SPNEGO)	The selected LDAP server requires user credentials and supports SPNEGO and SSL.	Windows
	 Use this selection negotiate the strongest authentication protocol that both the LDAP Server and the DSS server support. 	
	• Kerberos 5 is supported for Active Directory authentication.	
	• NTLM is supported for Exchange 5.5 server authentication.	

Search root

The search root is the distinguished name (DN) of the entry in the LDAP directory where the search is to begin. A DN is made up of '*attribute=value*' pairs separated by commas.

In Windows Active Directory Services, the search root normally takes the form: CN=Users, DC=domain_name, DC=domain_suffix. To limit the address search even more, for example, to a single organizational unit (OU), add components to the search root. For example, to search for users in the "accounting" OU, add "OU=accounting" to the search root (OU=accounting, CN=Users, DC=domain_name, DC=domain_suffix). By using these methods to configure the search root that is used in authentication, access to Digital Sending features can be limited to a subset of users in an organization. Several methods can be used to determine the search root.

NOTE: On some LDAP servers, the search root can remain blank. In this case, the root node is assumed to be the starting place.

How to

Use the Configuration Utility **Authentication** tab to control how users are authenticated when using the Digital Sending features.

Authentication consists of two interdependent parts. First, the device verifies the user's credentials by using the selected authentication method. Then, the device attempts to find the user's e-mail address in the database of an LDAP server by using settings that are specific to the LDAP server. If either step fails, the user is denied access to the Digital Sending features. These two steps utilize two distinct technologies (an authentication server and an LDAP server), except in the case of the LDAP server method, where both steps are accomplished by using the LDAP server. To enable

authentication, start by selecting an option from the **Authentication** drop-down list. The following options are available.

- None
- Microsoft Windows
- LDAP server
- **Novell NDS** (if Novell client software is present)

LDAP Configuration

After selecting the authentication method on the **Authentication** tab, the LDAP configuration settings appear. The device uses LDAP to retrieve the e-mail address for the authenticated user. After the user has provided valid credentials, the software uses this information to match an attribute in the LDAP database. After the match is made and the user is identified in the database, the user's e-mail address is retrieved by using another database attribute. The LDAP settings include the following options.

- Options for configuring DSS to gain access to the LDAP server
- Options for searching the database to obtain user e-mail addresses

To configure the LDAP server

- Click Find Servers. The program searches the network for LDAP servers, and might also prompt you for your network username and password, depending on the network configuration. Next, the Select LDAP Server dialog box appears, containing a list of LDAP servers on the network.
- NOTE: The Find Servers option for finding LDAP servers does not work in all environments. If the Find Servers process does not work, the TCP/IP address or hostname of the Domain Controller or Global Catalog Server should be typed in the LDAP Server text box. If the Global Catalog Server is used, the default LDAP port in the **Port** text box must be changed to 3268.
- 2. Select the LDAP server to use. The information about the selected server appears.
- 3. Click **OK** to accept the selected server. The server information is filled in on the **Authentication** tab.
- 4. Click Find Settings. The server settings appear in a dialog box. Click Yes to accept the settings.
- 5. Click **Test** on the **Authentication** tab to test the settings. In the **Test User Authentication** dialog box, type in the network logon credentials of a user in order to test whether the user can be authenticated and whether LDAP can successfully retrieve an e-mail address.

Configure the Device

General Authentication Send to E-mail	Addressing	Log	Preferences	Properties	Fax	Send to Folder	Send to Workflows
Conu DES Authoritation Settings							
Authentication settings on the server can be copied t	o the product.						
Conv							
Sign In and Permission Policies Set sign-in requirements at the control panel by allow	ing or denving	Guest aco	ess. Guests are u	sers who have i	not signed		
in to use the device. The remaining permissions can users and groups.	be applied to lo	cal user ac	counts stored on	the device or to	o network		
	Requires		Sign In	Method			
Control Panel Application	Sign In						
Copy application			None	*			
Color Copy			None	~			
E-mail application			None	~			
	-						
Fax application			None	~			
Network Folder application			None	~			
Job Storage application			None	~			
Create Stored Job			None	*			
Digital Sending Service (DSS) Secondary			None	*			
Digital Sending Service (DSS) Workflow			None	~			
	-			(12)			
nome screen application			wone	~			
Authentication							
Derauit Domáin	Defau	it NDS Con	text				
Default NDC Tree							

Figure 3-20 Authentication subtab – Configure Devices tab set

The Authentication subtab on the Configure Devices tab set contains the following elements.

Callout	Component	Description
1	Copy DSS Authentication Settings	Click this button to copy saved settings on the server to the device.

Callout	Component	Description
2	Sign In and Permission Policies	Set sign-in requirements at the control panel by allowing or denying guest access. Guests are users who have not signed in to use the device. The remaining permissions can be applied to local users account on the device or to network users and groups.
		Select the Requires Sign In Requires Sign In check box, if needed, and select the Sign In Method from the drop-down menu for each of the following options.
		Copy application
		• Color copy
		E-mail application
		Fax application
		Network folder application
		Job storage application
		Create stored job
		Digital Sending Service (DSS) Secondary
		Digital Sending Service (DSS) Workflow
		Home screen application
3	Authentication	Add the following information to enable authentication.
		Default domain
		Default NDS context
		Default NDS tree

Table 3-13 Authentication subtab — Configure Devices tab set (continued)

How to

The **Authentication** tab on the **Configure Devices** tab set allows you to configure user authentication for the selected device.

- 1. Open the Configuration Utility, and then click the **Device Configuration** tab.
- 2. Click to select the device you want to configure, and then click **Configure Device**. The **Configure Devices** tab set appears.
- 3. Click the Authentication tab.
- 4. Click to select the **Enable Authentication** check box. Authentication requires that the device user be authenticated before using the Digital Sending features of this device.
- 5. Any of the Authentication Agents can be selected for each feature from the corresponding drop down menu.

If you select anything other than **HP Digital Sending Service** as the Authentication Agent for any feature, you will need to set up the authentication in the Embedded Web Server or Web Jetadmin.

- 6. Depending on the Authentication Method you selected on the Authentication Settings page, you can provide certain default user credential information.
 - If you selected Microsoft Windows as the Authentication Method, select or enter a Default Domain that is presented to the device user during the authentication process. If no Default Domain is desired, this field may be left blank.
 - If you selected Novell NDS as the Authentication Method, select or enter a Default Tree and Default Context that is presented to the device user during the authentication process. If no Default Tree or Default Context is desired, these fields may be left blank.
 - If you selected LDAP as the Authentication Method and want to apply that to a feature, select HP Digital Sending Service as the Authentication Agent for that feature.

General Device configuration

This section contains information about some of the more general sub-tabs available on the **Configure Devices** tab set in the Configuration Utility. Use this tab set to configure individual Digital Sending-enabled devices. The following tabs are included in this section:

- General subtab
- Addressing subtab
- Log subtab
- Preferences subtab

For information about the remaining tabs, see the following topics:

- <u>Table 3-13 Authentication subtab Configure Devices tab set on page 56</u>
- Table 3-21 Send to E-mail subtab Configure Devices tab set on page 72
- Fax subtab <u>Configure the Device on page 80</u>
- Table 3-29 Send to Workflows subtab Configure Devices tab set on page 102

General subtab

contriguite	Control Jain								
General	Authentication	Send to E-mail	Addressing	Log	Preferences	Properties	Fax	Send to Folder	Send to Workflows
dministrator In	formation								
Name			Phone Number						
]			
E-mail			Location (optional))		1			

Figure 3-21 General subtab in the Configure Devices tab set

The General subtab in the Configure Devices tab set contains the following elements.

Callout	Component	Description
1	Administrator Information	The General tab allows you to configure settings common to all the Digital Sending features supported on the device.
		The device displays the Administrator Contact Information when an error occurs that requires administrator intervention.
		 In the Name edit box, enter the name of the person responsible for maintaining the Digital Sending features of this device.
		 In the E-mail Address edit box, enter the e-mail address of the person responsible for maintaining the Digital Sending features of this device.
		 In the Phone Number (optional) edit box, optionally enter the phone number of the person responsible for maintaining the Digital Sending features of this device.
		 In the Location (optional) edit box, optionally enter the physical location of the person responsible for maintaining the Digital Sending features of this device.

Table 3-14 General subtab on the Configure Devices tab	set
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Addressing subtab

Gene	eral Authentication Send to E-mail Addressin	ng Log Preferen	nces Properties	Fax 9	Send to Folder	Send to Workflows
Netw	rork Contacts					
	nable Network Contacts (use LDAP server)					
(1)	Network Directory Server (LDAP) (Step 1)					
	LDAP Server Address					
	192.68.0.203	Auto Find				
	Hostname or IP address					
		Port				
	Use a secure connection (SSL)	389				
	Port 636 is the default for TLS or SSL					
	Concer Authorities Residence and (Cher R)					
0	Server does not require authentication					
	O Server requires authentication					
~	I DAP Database Search Settings (Step 3)					
0	Path to start search (BaseDN, Search Root):					
		Auto Find				
		- Note C in Name				
	Source for Attribute Names:					
	O Use Active Directory Default					
	OUse Exchange 5.5 Default					
	Use Custom Attributes	Auto Find				
	Match the Recipient's Name with this attribute:	Attribute Name for Reci	pient's E-mail Addres	s:	Attribute Nam	e for Recipient's Fax Number:
					FacsimileTele	ephoneNumber
	- Advanced Search Options					
	Maximum LDAP Addresses	LDAP Filter Condition				
	×					
	Maximum Search Time					
	10 Seconds					
	- Test for LDAP Retrieval (Step 4)					
	Test					

Figure 3-22 Addressing subtab on the Device Configuration tab set

Table 3-15	Addressing	subtab —	Configure	Devices	tab set
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Callout	Component	Description
1	Enable Network Contacts (use LDAP server)	Click to select Enable Network Contacts (use LDAP server) check box, and then follow the steps below.
2	Network Directory Server (LDAP) (Step 1)	 Use the following controls to designate the LDAP server. Type the hostname or IP address in the LDAP Server Address text box or click AutoFind to have DSS find the LDAP server address. Click to select the Use a secure connection (SSL) check box. Tye the port number in the Port text box.
3	Server Authentication Requirements (Step 2)	 Click to select one of the following options. Server does not require authentication. Server requires authentication.

Callout	Component	Description
4	LDAP Database Search	Use the following controls to configure the search settings.
	Settings (Step 5)	• Type in the Path to Start Search (BaseDN, Search Root) or click Auto Find to have DSS find the path.
		• Select a Source for Attribute Names or click Auto Find to have DSS find the source.
		• Type in the attribute to match the recipient's name, e-mail address, and fax number.
5	Advanced Search Options	Select the Maximum LDAP Addresses and the Maximum Search Time from the drop-down menus, and then type in the LDAP Filter Condition in the text box.
6	Test for LDAP Retrieval (Step 4)	Type in at least 3 characters to test the retrieval of address book entries using the LDAP setup, and then click Test .

Table 3-15 Addressing subtab — Configure Devices tab set (continued)

Log subtab

The **Log** subtab in the **Configure Devices** tab set displays the Digital Sending activities carried out by the specific selected device.

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Figure 3-23 Log subtab in the Configure Devices tab set

The **Log** subtab contains the following controls.

Table 3-16	Log subtab o	n the Configure Devices	tab set
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Callout	Component	Description
1	Device Information	This list shows the individual device on which the event occurred.
2	User	This column shows the user that was logged in to the device when the event occurred.
3	Job Status	Status indicator
4	Log Time	This column lists the time each event occurred.
5	Max entries	Use this drop-down list to select the number of entries that appear in this window. The options are 0 , 32 , 256 , 512 , and 1024 .
		NOTE: Selecting a maximum entries option greater than 32 can cause a delay when starting the Configuration Utility.
6	Save	Click this button to save the log file as a text file.

Callout	Component	Description
7	Details	Click this button to view additional details about the selected log event.
8	Refresh	Click this button to refresh log events.
9	Clear	Click this button to clear all of the log entries.

 Table 3-16
 Log subtab on the Configure Devices tab set (continued)

Preferences subtab

Figure	3-24	Prefere	ences sub	otab in	the	Configu	ure De	vice	s tab set	:		
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	Dimpiex											
27	Timeouts [[cAutoSe	ettingsReset]]										
	[[cAfter[DSCompleteEllipsis]]										
	O[[cIm	mediateResetToDefa	ults]]									
	[[cDe	layResetToDefaults]]	i									
	[[c	NumberOfSeconds10	тозоо]] 20 🛨									
L										Apply	Cancel	Help

The **Preferences** subtab contains the following controls.

Callout	Component	Description
1	Default Scanner Settings	Use Default Scanner Settings to set the default settings for document size, expected page content, and duplexing:
		Original Size
		Optimize Text/Picture
		Original Sides
2	Timeouts	Use the controls in the Time-outs group box to control the delay before the device returns to its default digital-send settings. The following options are available to control the auto settings resets:
		Immediate reset to defaults
		Delay reset to defaults
		• Number of seconds combo box – choose from 1 to 30 seconds.

Table 3-17 Preferences subtab on the Configure Devices tab set

Send to Folder

The Digital Sending features of the device can send scanned documents directly to a network folder, transforming paper-based information into digital images that can be shared, stored, or edited.

Configure DSS

Use the Configuration Utility **Send to Folder** tab to set up the Send to Folder feature and select network folders to send to.

Figure 3-25 The Send to Folder tab

						r	ſ	,		
General	E-mail	Authentication	Fax	Send to Folder	Workflows	Addressing	Device Configuration	Log	About	
Z Enable Sa	ive to Netwo	rk Folder								
Predefined	Folders									
Display I	lame		JNC Folder	Path	Crei	dentials				
1										
Add.		Edit	Copy	Remove	Test					
Add.	to Access Pu	Edit	Copy	Remove	Test					
Add. Credentials Sign In Me	to Access Pu	Edit	Сору	Remove	Test	Domain				
Add. Credentials Sign In Me	to Access Pu	Edit	Сору	Remove	Test	Domain				
Add. Credentials Sign In Me	to Access Pu	Edit	Сору	Remove	Test	Domain NDS Tree	2			
Add. Credentials Sign In Me Username	to Access Pu	Edit	Сору	Remove	Test	Domain NDS Tree	2			
Add. Credentials Sign In Me Username Password	to Access Pu	Edit	Сору	Remove	Test	Domain NDS Tree NDS Conl	e text			
Add. Credentials Sign In Me Username Password	to Access Pu	Edit	Сору	Remove	Test	Domain NDS Tree NDS Con	2 text			
Add. Credentials Sign In Me Username Password		Edit	Copy	Remove	Test	Domain NDS Tree NDS Con	e text			
Add. Credentials Sign In Me Username Password	. to Access Pu thod	Edit	Copy	Remove	Test	Domain NDS Tree NDS Con	e text			
Add. Credentials Sign In Me Username Password	to Access Puthod	Edit	Copy	Remove	Test	Domain NDS Tree NDS Con	e text			
Add. Credentials Sign In Me Username Password	to Access Puthod	Edit	Copy	Remove	Test	Domain NDS Tree NDS Con	2 text			
Add. Credentials Sign In Me Username Password	to Access PL	Edit	Copy	Remove	Test	Domain NDS Tree NDS Con	2 2 text			
Add. Credentials Sign In Me Username Password	to Access PL thod	Edit	Copy	Remove	Test	Domain NDS Tree NDS Cori	e text			
Callout	Component	Description								
---------	---	--								
1	Enable Save to Network Folder	Click to select the Enable Save to Network Folder check box.								
2	Predefined folders	The Predefined folders list shows the folders as they are added to the DSS service. These folders are available at the device. The Display name , UNC Folder path , and Credentials for each folder are listed here.								
		The following controls are also available for configuring the folders.								
		• Add. Click to add a new folder								
		• Edit. Click to edit settings for the selected folder.								
		• Copy. Click to copy a folder.								
		• Remove . Click to remove a folder from the list of available folders.								
		• Test . Click to test folder settings.								
3	Credentials to Access Public Folders	Use the Credentials to Access Public Folders section to configure the credentials required for users to use Public Folders.								
		• Sign-in Method. Select the sign-in method from the drop-down menu.								
		• Username. Type in the username.								
		• Password . Type in the password.								
		• Domain . Type in the domain.								
		• NDS tree. Type in the NDS tree.								
		• NDS content. Type in the NDS content.								

Table 3-18 Send to Folder tab

To configure the Send to Folder feature

- 1. On the DSS server, open the Configuration Utility and click the **Send to Folder** tab.
- 2. Select the Enable Send to Folder check box.
- 3. Click Add... to add a new folder. The Predefined Folder dialog box appears.
- 4. Type a name and description for the folder into the **Name** and **Description** text boxes. The name and description appear on the device control-panel interface.
- 5. Click to select one of the following folder types:
 - NOTE: Supported operating systems for folder destinations areCIFS/SMB-compliant file systems.
 - Save to a standard shared network folder. Type a folder location in the UNC Folder Path field.
 - Save to a personal shared folder. Type a folder name in the Retrieve the device user's home folder using this attribute field. The default is HomeFolder.
 - Create subfolder based upon user name. If you want to restrict the user's read/write access, click to select the Only allow access to user directory check box.

- 6. Next, select the credentials that should be used to gain access to the folder in the Authentication Settings section. Click to select Use credentials of user to connect after Sign-in at the control panel to use the credentials of the user when logged into the device. Or click to select Use common credentials to use the credentials designated in the Credentials to Access Public Folders section on the Send to Folder tab. Click Verify Access to test authentication.
- 7. Click **OK** to save the settings. The new folder is added to the **Predefined Folders** list.
- 8. Repeat steps 1 through 7 to add more folders.
- Type the public access credentials that are required to gain access to folders in the Credentials to Access Public Folders section of the Send to Folder tab. This information is required before the folder list can be saved.
- 10. Click **Apply** to save the new folders.

Configure the Device

Use the Configuration Utility **Send to Folder** subtab on the **Device Configuration** tab set to set up the Send to Folder feature on the device.

Figure 3-26 The Send to Folder tab on the Device Configuration tab set

	Addrictibication	Sens to children	Addressing	Log	Freierences	riopercies	Tax			Joing to Worknows	
Enable Si	ave to Network Folder	τ									
File Setting	js			ananan a	9-11 Hi						
Default Co	olor Preference		De	tault Outpu	t Quality			1221	Default File T	ype	
Black/Gra	ау			saium				~	PUP		
Default Re	esolution		De	fault OCR L	anguage			_			
150 dpi			✓ Er	glish				~			
Black TIF	F compression method	đ	Co	or/Graysca	le TIFF compressio	on method					
Auto			▼ TI	FF 6.0				*			

Callout	Component	Description
1	Enable Save to Network Folder	Click to select the Enable Save to Network Folder check box.
2	File Settings	Use the controls in the File Settings section to configure how files are formatted in the predefined folders.
		Default color preference
		Default resolution
		Black TIFF compression method
		Default output quality
		Default OCR language
		Color/Grayscale TIFF compression method
		Default file type

Table 3-19 Send to Folder subtab on the Configure Devices tab set

Configure the device to use Send To Folder

- 1. Click to select the Enable Send to Folder check box on the Send To Folder subtab on the Configure Devices tab set.
- 2. To enable options for OCR processing the scanned documents, select an OCR file type from the Default File Type drop-down menu.
- NOTE: On some devices, the user is allowed to override some of these settings.

Send to E-mail

This section contains the following topics:

- <u>Configuration overview</u>
- Configure DSS
- Configure the Device

Configuration overview

The Digital Sending features of the device can send scanned documents directly to e-mail, transforming paper-based information into digital images that can be shared, stored, or edited. This saves the device user from having to first create and save an electronic copy of a hard-copy document and then send it via their mail application. This can now all be done in one step at the device.

Configure DSS

Use the **E-mail** tab of the Configuration Utility to configure and organize the SMTP e-mail servers that DSS uses to send e-mail messages.



HP Digita	l Sending Sof	ftware Config	uration							
General	E-mail	Authenticatio	on Fax	Send to Folder	Workflows	Addressing	Device Configu	uration Log	About	Template Configuration
Outgoing E	-mail Server (S	SMTP) Gateway	Server				42-	2.5	- F.V F.V.	
Priorit	y Order	02 68 0 202	SMTP Gatew	vay						
C.D.Saitt.Sa	1000001	52.00.0.205								
										Move
Add.	. []	Edit	Remove	Test						
								3		- P - P - P

The **E-mail** tab contains the following elements.

Table 3-20 E-mail tab

Callout	Component	Description
1	Outgoing E-mail Server (SMTP) Gateway Server	Use the Outgoing E-mail Server (SMTP) Gateway Server to manage e-mail servers for the DSS server. The e-mail servers are listed here by priority. Use the up and down arrows to move e-mail servers up or down in the list. The following controls are available for configuring the e-mail servers.
		• Add. Click to add a new e-mail server.
		• Edit. Click to edit the settings for an e-mail server.
		• Remove . Click to remove an e-mail server from the list.
		• Test . Click to test an e-mail server.

Configure the e-mail feature on DSS

1. On the DSS server, open the Configuration Utility and click the **E-mail** tab.



Figure 3-28 The E-mail tab

- 2. Click Add. The Add SMTP Gateway dialog box appears.
- 3. Type the host name or TCP/IP address of the SMTP server in the **Server Name or Address** field.

-or-

Or click **Auto Find** to find all of the SMTP servers on the network. A list of SMTP servers appears. Select one or more SMTP servers and click **OK**.

- 4. Select any of the following additional SMTP gateway options:
 - Enable SMTP SSL Protocol
 - Server Requires Authentication
 - Split e-mails if larger than (MB). Use this control to set a maximum file size for the specified SMTP gateway. If an e-mail attachment exceeds the specified file size, the attachment is divided into two or more smaller attachments.
 - Send a test e-mail to. Type an e-mail address and then click Send to verify the presence of the SMTP gateway.
 - NOTE: If the test fails, double-check the gateway address and then contact the network administrator to see if the SMTP server is functioning. See <u>Verifying the SMTP gateway</u> on page 70.

- 5. Click **OK** to add the server to the SMTP Gateway Server list.
- 6. If there is more than one SMTP server, use the **Move** arrow buttons to move SMTP servers to a different position on the list. DSS attempts to use the first SMTP server when processing an e-mail transmission. If the first server is unavailable for use, DSS attempts to use the next server on the list. DSS continues this process until it finds an available SMTP server.

SMTP gateways

The following servers can be used as SMTP gateways for DSS.

- Exchange 5.5 In Exchange 5.5, the Internet Mail Service (IMS) is responsible for the transfer of SMTP mail. To transfer the mail successfully, the IMS must be configured with a route to another gateway.
- Exchange 2000 Exchange 2000 (IIS5) does not directly support SMTP, but it is installed with IIS5, which does support the SMTP service. Exchange 2000 integrates with the Active Directory. It does not have its own data store. Similarly, IIS5 manages the SMTP service for Exchange 2000. Verify that the SMTP service in Windows 2000 is running by clicking Administrative Tools and then clicking Services.
- **Sendmail** Sendmail runs as a UNIX® daemon (service). In many large networks, several Exchange servers are routed to a Sendmail gateway, which can serve as a firewall.
- Qmail Qmail is very similar to Sendmail. Qmail does not accept a bare line-feed character in any SMTP content.
- Lotus Domino (Notes) The SMTP message transfer agent (MTA) must be configured in Domino for it to work as an SMTP gateway.

Verifying the SMTP gateway

The following instructions explain how to open a telnet session and send an e-mail to verify communication with the SMTP gateway and also to verify that the SMTP gateway is correctly configured to route Internet e-mail. Use an e-mail account outside of the local network (for example, a Hotmail account) to verify communication outside of the network.

By verifying that e-mail can be sent, you can rule out any problem with the particular gateway that has been configured for HP DSS.

The default local echo setting for a telnet session is "off," which means that characters do not appear as the user types at the telnet prompt. To change the local echo setting to "on," open a command prompt window, type telnet, and then press Enter. The Telnet prompt appears. Type set LOCAL ECHO to turn on the local echo setting.

Use the following procedure to verify the communication through the SMTP gateway.

NOTE: You cannot use the backspace key in a telnet session. Any characters that are typed are sent one character at a time to the SMTP gateway, backspaces included. Note also that SMTP is not case-sensitive. The local echo setting for the telnet session must be set to "on".

To verify the SMTP gateway

- 1. On a networked computer, open a command prompt, type telnet <smtp gateway> 25, and then press Enter (where <smtp gateway> is the fully qualified domain name or TCP/IP address of the SMTP gateway) to establish communication with the SMTP gateway on port 25.
- 2. Type help and then press Enter. Note the different SMTP options that are returned.

- 3. To start a conversation with the SMTP gateway, type HELO <smtp gateway> and then press Enter. Note that the response contains a list of attributes as well as the type of SMTP gateway that you are communicating with.
- 4. To send an e-mail, type mail from: <your e-mail address> and then press Enter.
- 5. Type rcpt to: <your e-mail address> and then press Enter.
- 6. Type subject: This is a test message.
- 7. Type data: and then press Enter.
- 8. Type what you want to go into the body of the message.
- 9. To send the message, type a period (".") and then press Enter.
- **10.** Type quit and then press Enter to end the telnet session.

The test e-mail message should appear in the sender's inbox in a few seconds.

If the sender does not receive the e-mail message, the SMTP server might not be relaying e-mail. Contact the network administrator.

NOTE: Versions of DSS earlier than 4.3 do not support authenticated SMTP.

Configure the Device

The **Send to E-mail** subtab is shown in the following illustration. Use it to configure e-mail settings for individual Digital Sending devices.

Figure 3-29	Send to E	-mail subtab	in the	Configure	Devices	tab set
-------------	-----------	--------------	--------	-----------	---------	---------

 A default From An Outgoing E 	address is required before Se mail Server (SMTP) is require	nd to E-mail can d before Send to	be enabled. E-mail can be enabled					
Enable Send to E-mail								
Outgoing E-mail Server (S	MTP)							
Send E-mail	(200)							
Directly from the device	×							
Server Name		Port Numbe	ur 🖉					
0.0.0.0		25						
1			N IN					
181								
Add	Edit Remove							
Address and Massace Field	Control							
Select the desired setting	or each field and whether the	field can be edit	ted by the user at the	ontrol panel. If an	y selections re	quire users to sig	n in, set the base applicat	tion to require signing
in by navigating to the Se	urity tab.		- 1			-		
Address Field Restrictions								
Users can type addresse	i 	w data bia						
Setting applies in From, 1	o, cc, or bcc neids are luser e							
Prom			a dashi a					
Derault From:		✓ Use	ar editable					
Default From						Default Display	/ Name	
Notes A defeate France ad	less to see the day of the sector					No. 1. The second		Mar disclose and the
						shown at the c address.	ontrol panel rather than t	the Default From:
Subject								
Subject								
Subject Default Message								
Subject Default Message			er editable					
Subject Default Message			er editable					
Subject Default Message Signing and Encryption			er editable					
Subject Default Message Signing and Encryption - Signing			er editable					
Subject Default Message Signing and Encryption Signing Sign		Use Use	r editable r editable					
Subject Default Message Signing and Encryption		User	er editable r editable					
Subject Default Message Signing and Encryption — Signing Encryption Do not encrypt		Vuse	r editable r editable r editable					
Subject Default Message Signing and Encryption — Signing Sign Encryption Do not encrypt		Vuser	r editable r editable r editable					
Subject Default Message Signing and Encryption Signing Encryption Do not encrypt		Vuser	r editable r editable r editable					
Subject Default Message Signing and Encryption Signing Encryption Do not encrypt		Vuser	r editable r editable r editable					
Subject Default Message Signing and Encryption – Signing Sign Encryption Do not encrypt		V User	r editable r editable r editable					
Subject Default Message Signing and Encryption Signing Encryption Do not encrypt File Settings Default Color Preference		V User	r editable r editable r editable it Output Quality			Default File Ty	ps	
Subject Default Message Signing and Encryption Signing Encryption Do not encrypt File Settings Default Color Preference Color		V VUser V User V User	r editable r editable r editable R Output Quality m		×	Default File Ty PDF	ре	
Subject Default Message Signing and Encryption Signing Encryption Do not encrypt Pile Settings Default Color Preference Color Default Resolution		V Vuer V Vuer V User	r editable r editable r editable it Output Quality m		×	Default File Ty FDF	pe	
Subject Default Message Signing and Encryption Signing Encryption Do not encrypt File Settings Default Color Preference Color Default Resolution 150 dpi		Use V VUser V User V Defaul V Medu	r editable r editable r editable It Output Quality m		×	Default File Ty PDF	ps	~
Subject Default Message Signing and Encryption - Signing Encryption Do not encrypt Pile Settings Default Color Preference Color Default Resolution 150 dpi		User V VUser V User Defaul	r editable r editable r editable it Output Quality m		×	Default File Ty FDF	pe	

 Table 3-21
 Send to E-mail subtab — Configure Devices tab set

Callout	Component	Description
1	Enable Send to E-mail	Click to select Enable Send to E-mail check box.

Callout	Component	Description				
2	Outgoing E-mail Server	Use the Outgoing E-mail (SMTP) Server section to manage the e-mail server for the device. Select how the device sends e-mail from the Send E-mail drop-down menu, then use the following controls to configure the e-mail server.				
		• Add. Click to add a new e-mail server.				
		• Edit. Click to edit the settings for an e-mail server.				
		• Remove . Click to remove an e-mail server from the list.				
3	Address and Message Field Control	Select the desired setting for each field and whether the field can be edited by the user at the control panel. If any selections require users to sign in, set the base application to require signing in by navigating to the Security tab. Use the following controls:				
		• Select the Address Field Restrictions for the From, To, CC, and Bcc fields from the drop-down menu.				
		• Select the From field from the drop-down menu. Click to select the User editable check box if you want users to be able to edit the fields from the device.				
		• Type in a Default From address in the text box. A Default From address is required and is used when users do not sign in to use e-mail.				
		• Type in a Default Display Name in the text box. This is an optional setting. If set, the display name is shown at the control panel rather than the Default From address.				
		• Type in the Subject in the text box.				
		 Type in the Default Message in the text box, and then click to select the User editable check box if you want users to be able to edit the message at the device. 				
4	Signing and Encryption	 Select the Signing method from the drop-down menu, and then click to select the User editable check box if you want users to be able to change the signing method at the device. 				
		 Select the Encryption method from the drop-down menu, and then click to select the User editable check box if you want users to be able to change the encryption method at the device. 				
5	File settings	Select the file settings from the Default Color Preference , Default Output Quality , Default File Type , and Default Resolution drop-down menus.				

Table 3-21 Send to E-mail subtab — Configure Devices tab set (continued)

Select routing type

To enable Send to E-mail by using DSS

- 1. On the DSS server, open the Configuration Utility and select a device from the list on the **Device Configuration** tab.
- 2. Click Configure Device..., and then select the Send to E-mail tab.
- 3. Click to select the Enable Send to E-mail check box to enable Digital Sending by using e-mail.
- 4. Select via the Digital Sending service from the Send E-mails drop-down menu.

- 5. If authentication has *not* been enabled, type in an e-mail address in the **Default From** field. If the device user does not provide a **From** e-mail address, this is the return address that will be used. To prohibit users from changing the return e-mail address, click to de-select the **User Editable** check box.
- NOTE: If authentication is enabled, the **Default From** field is disabled. The e-mail address of the authenticated user is used for the **From** e-mail address.
- 6. Type the **Display Name**(optional). This name appears in the **From:** text box when the device user first initiates a send-to-e-mail operation. This text box can be used to provide instructions to the device user (with messages such as "Please type your e-mail address here").
- NOTE: If the display name is not provided, the default sender is the e-mail address that appears in the **From:** text box.
- 7. Type a default e-mail subject into the **Subject** text box, if one is needed. This is used if the device user does not type in their own e-mail subject.
- 8. Type in a message in the **Default Message** text box, if needed. The message appears in the body of all e-mail messages that are sent from the device. Click to select the **User Editable** check box to allow the user to edit the e-mail message.
- 9. Select **Signing** and **Encryption** options from the drop-down menus. Click to select the **User Editable** check box to allow the user to change these options.
- 10. Select the default File Settings from the drop-down menus.
- **11.** Click **Apply** to save changes.

To enable send to e-mail directly from the Device

- 1. On the **Send to E-mail** tab, select the **Enable Send to E-mail** check box.
- 2. Select **directly from the device** from the **Send E-mails** drop-down menu.
- In the Device's SMTP Gateway text box, type the SMTP server TCP/IP address or hostname. If you do not know the SMTP address, click Find Gateway to find it, and then click Test to verify that it is a valid SMTP server.
- NOTE: Some Device models only recognize TCP/IP addresses. In these cases, the hostname is converted to the equivalent TCP/IP address.
- 4. Use the Maximum Attachment Size drop-down list to control the size of the attachments that the e-mail server can accept. If an attachment exceeds the maximum size, it will be split between two or more e-mails.
- 5. If authentication has *not* been enabled, complete the E-mail Address in the Default 'From' Address group box. If the Device user does not provide a From e-mail address, this is the return address that will be used. To prohibit users from changing the return e-mail address, select the Prevent device user from changing the Default 'From:' Address check box. This prevents a user from impersonating someone else.
- NOTE: If authentication is enabled, the **Default 'From' Address** group box is disabled. The e-mail address of the authenticated user is used for the **From** e-mail address.
- 6. Type the **Display Name**(optional). This name appears in the **From:** text box when the Device user first initiates a send-to-e-mail operation. This text box can be used to provide instructions to the Device user (with messages such as "Please type your e-mail address here").

- NOTE: If the display name is not provided, the default sender is the e-mail address that appears in the **From:** text box.
- 7. Type a default e-mail subject into the **Default Subject** text box. The default subject is used if the Device user does not provide an e-mail subject.

Send to Fax

This section contains the following topics:

- <u>Configuration overview</u>
- <u>Configure DSS</u>
- Configure the Device

Configuration overview

This section contains the following topics:

- Analog fax
- <u>Third-party fax</u>

Analog fax

DSS can be used to configure the settings for the embedded analog fax modem in a device. Use the **Send to Fax** tab in the Device Configuration interface to configure these settings on individual devices.

Third-party fax

HP DSS is compatible with the following third-party fax-software programs:

- ACCPCC
- Anny Way Office Edition
- Biscom FAXCOM
- Capteris RightFAX
- Castelle FaxPress
- Cycos-mrs Unified Communication
- Esker Pulse/Fax
- Esker LAN fax
- FACSys Fax Messaging Gateway
- Fenestrae Faxination
- GFI FAXmaker
- Gold-Fax
- Imecom Integral Fax

- INTERSCOPE FaxPlus/Open
- Interstar LightningFAX
- Object Fax
- Omtool
- RedRock FaxNow!
- RTEFax
- Tobit DvISE
- TOPCALL
- Zetafax

Configure DSS

The Configuration Utility **Fax** tab controls all of the DSS fax settings. To configure the fax option, first select the fax delivery method from the **Fax Send Method** drop-down list. The following options are available:

- None
- LAN Fax
- Internet Fax

Depending on which method is selected, the applicable settings appear on the **Fax** tab. Fill in these settings to complete the fax configuration process.

Internet fax

Dia HP Divital Sending Software Configuration	
General E-mail Authentication Fax Send to Folder Workflows Addressing Device Configuration Log About	
▼ Enable Fax Send	
Fax Send Method Internet Fax V Internet Fax V Internet Fax Setup	
Uugong E-mail Server (SMTP) Gateway Server Up Nove	
Find Servers Add Edit Test	
Fax Provider Domain Default Fax Account e-mail address	
File Format MTIFF/C4	
If available, use the user's e-mail address as the Fax Account address. Autocomplete to North American Number Plan (NANP) format	
OK Cancel Apply	Help

Figure 3-30 Fax tab – Internet fax option

The Internet fax option on the **Fax** tab contains the following elements.

Table 3-22	Fax tab –	Internet fax	option
------------	-----------	--------------	--------

Callout	Component	Description
1	Enable Fax Send	Click to select the Enable Fax Send check box.
2	Fax Send Method	Select the Fax Send Method from the drop-down menu.

Callout	Component	Description	
3	Outgoing E-mail Server (SMTP) Gateway Server	Use the controls in the Outgoing E-mail Server (SMTP) Gateway Serve section to configure and prioritize e-mail servers to use the Internet fax feature. The list shows the e-mail servers in order of priority. Use the up and down arrows to move servers on the list. The following options are a available.	
		• Find servers . Click this option to have the DSS software search the network for available e-mail servers.	
		• Add. Click to add a new e-mail server.	
		• Edit. Click to edit settings for an e-mail server.	
		• Remove . Click to remove a server from the list.	
		• Test . Click to test an e-mail server.	
4	Internet Fax setup	Use the following controls to configure the Internet fax.	
		• Fax provider domain	
		Default fax account e-mail address	
		File format	
		 If available, use the user's e-mail address as the Fax Account address 	
		Autocomplete to North American Number Plan (NANP) format	

Table 3-22 Fax tab – Internet fax option (continued)

To configure Internet fax

With an Internet fax service, faxes are sent in e-mail. When using DSS, the user specifies a fax number at the device, and then the software creates and sends the e-mail behind the scenes.

- 1. On the DSS server, open the Configuration Utility and click the **Fax** tab.
- 2. Select Internet Fax from the Fax Send Method drop-down list.
- 3. Set up the **Outgoing E-mail Server (SMTP) Gateway Server**. Click **Add** to add the server address manually, or click **Find Servers** to search for servers.
- 4. Type the domain name for the Internet fax provider into the Fax Provider Domain text box (for example, efax.com). DSS takes the phone number that is typed at the device and then uses this domain name to create the e-mail (for example, [phone number]@efax.com).
- Type a valid e-mail address into the Default Fax Account E-mail Address text box. The fax service uses this e-mail address for billing purposes and for any returned or failed Internet fax e-mail.
- 6. Select the default **File Format** from the drop-down menu.
- 7. Select the check box to use the authenticated user's e-mail address as the return e-mail address. If the device user's e-mail address is not available, the **Default Fax Account E-mail Address** e-mail address is used.

- NOTE: If you select this option, the user's e-mail address must be registered with the Internet fax service provider in order to fax successfully.
- 8. Click **Apply** to save the Internet fax settings.

LAN fax

2 III Digitat sellulli	g Software Config	uration							
General E-mail	Authentication	Fax	Send to Folder	Workflows	Addressing	Device Configuration	on Log	About	
Enable Fax Send									
Fax Send Method									
	~								
LAN Fax Setup									
Third Party LAN Fax	Product				File Form	at:			
ACCPAC	Troduct				MTIFF/G	4			
Folder Cottings									
Network Type			UNC Fol	der Path					
Windows Negotiate	d		v						Browse
Windows Domain									
Lisername			Passwor	4					
Coornaine				-				Ve	rify Folder Access
Diff. C.W.									
Maximum Retry Atte	mots		Retry In	terval (minutes)					
3			5						
Toront Cottines									
Notification			Error Co	rrection Mode			Notification	Timeout (m	inutes)
Disabled			Enabled			~	0		
Output Sattings									
 Output Settings Transmission Speed 			Cover Pa	ide					
Output Settings Transmission Speed Default			Cover Pa	ige I		~			

The LAN fax option on the Fax tab contains the following elements.

Table	3-23	Fax	tab —	LAN	fax
-------	------	-----	-------	-----	-----

Callout	Component	Description
1	Enable Fax Send	Click to select the Enable Fax Send check box.
2	Fax Send Method	Select the Fax Send Method from the drop-down menu.
3	Lan Fax Service Settings	Select the Third-party LAN fax product and the File Format from the drop-down menus.
4	Folder Settings	Select the Network Type from the drop-down menu, and then type in the UNC Folder Path or click Browse to navigate to the correct path.
		Type in the Windows Domain , Username , and Password , and then click Verify Folder Access to test the settings.
5	Dialing Settings	Configure the following dialing settings.
		Maximum retry attempts
		Retry interval (minutes)

Table 3-23 Fax tab — LAN fax (continued)

Callout	Component	Description	
6	Input Settings	Configure the following input settings.	
		Notification	
		Error correction mode	
		Notification timeout (minutes)	
7	Output Settings	Configure the following output settings.	
		Transmission speed	
		Cover page	
		 Transmission speed Cover page 	

To configure LAN fax

Follow these instructions to set up faxing from the device by using the network LAN fax service.

- 1. On the DSS server, open the Configuration Utility and click the **Fax** tab.
- 2. Select LAN fax from the Fax Send Method drop-down list.
- Select the LAN fax software product name from the Third Party LAN Fax Product drop-down menu.
- NOTE: If you are unsure about whether the product supports notification, select the **Generic LAN fax product without notification support** option from the drop-down menu.
- 4. Select the **Network Type** from the drop-down menu.
- 5. Type in the network path in the **UNC Folder Path**, or click **Browse** to select the network folder that the fax software uses.
- 6. Complete the **Windows Domain** section, if required. Then click **Verify Folder Access** to test the credentials and verify access to the folder.
- 7. Complete the **Dialing Settings** section by typing in the values you want to use in the **Maximum Retry Attempts** and **Retry Interval (minutes)** text boxes.
- Complete the Input Settings section by selecting the values you want to use in the Notification and Error Correction Mode drop-down menus. Type in the value you want to use in the Notification Timeout (minutes) text box.
- 9. Complete the **Output Settings** section by selecting the values you want to use in the **Transmission Speed** and **Cover Page** drop-down menus.
- **10.** Click **Apply** to save the LAN fax settings.

Configure the Device

Use the **Fax** tab on the **Configure Devices** tab set to configure the send-to-fax features for the selected device. Depending on the faxing method and settings, some of these options might not be available.

To configure the fax option, first select the fax delivery method from the **Fax Send Method** dropdown list. The following options are available:

- Internet Fax
- LAN Fax
- Analog Fax

Internet fax

Configuring the Internet Fax feature on the device

- 1. On the DSS server, open the Configuration Utility and select a device from the list on the **Device Configuration** tab.
- 2. Click Configure Device..., and then select the Fax tab.
- 3. Select the **Enable Fax Send** check box to enable the send-to-fax feature. If you want to enable the device to receive faxes, click **Enable Fax Receive**.
- 4. Configure the following settings for using Internet fax.
 - Click Add to select and configure the Outgoing E-mail Server (SMTP).
 - Type in the information for the internet fax service in the Internet Fax Provider Domain, Default Fax Account E-mail Address, and T37 Prefix text boxes. Then select the file format from the File Format drop-down menu.
 - Click the **If available**, use the signed-in user's e-mail address as the Fax Account address check box to automatically use the user's e-mail address in the **From** field.
 - Click the Auto configure to North American Numbering Plan (NANP) format using area code check box to have numbers automatically conform to this numbering format.
- 5. Select the fax notification options in the **Notification** group box.
 - Make a selection from the **Condition on which to notify** drop-down menu. The options are **Never**, **Always**, or **for errors on any faxes**.
 - When notification is enabled, the Method used to deliver notification drop-down menu becomes available. If authentication is enabled, the two options are Print and E-mail. If authentication is not enabled, only the Print option is available, because DSS does not have access to the user's e-mail address.
 - NOTE: Notification is not available for all fax delivery methods.
- 6. Select the quality of the fax by selecting a resolution from the **Resolution** drop-down list.
- **NOTE:** The user cannot change the resolution setting from the device control panel.
- 7. Optionally, provide a **Billing Code** that can be used for accounting.

If the user needs to type or change the billing code, select the **Allow users to edit billing code** check box. In addition, type in the minimum number of characters to use for a billing code value in the **Minimum Length** text box.

LAN fax

Configuring the LAN fax feature on the device

- 1. On the DSS server, open the Configuration Utility and select a device from the list on the **Device Configuration** tab.
- 2. Click Configure Device..., and then select the Fax tab.
- Select the Enable Fax Send check box to enable the send-to-fax feature. If you want to enable the device to receive faxes, click Enable Fax Receive.
- 4. Configure the following settings for using LAN fax.
 - Select the settings for the LAN fax service from the **Third Party LAN fax product** and the **File Format** drop-down menus.
 - Select the network type from the **Network Type** drop-down menu, and then type the folder path in the **UNC Folder Path** text box or click **Browse** to navigate to the folder on the network.
 - If you are using Windows credentials, type the domain name in the Windows Domain text box and the user name and password in the Username and Password text boxes. Click Verify Folder Access to test credentials.
- 5. Select the fax notification options in the **Notification** group box.
 - Make a selection from the **Condition on which to notify** drop-down menu. The options are **Never**, **Always**, or **for errors on any faxes**.
 - When notification is enabled, the **Method used to deliver notification** drop-down menu becomes available. If authentication is enabled, the two options are **Print** and **E-mail**. If authentication is not enabled, only the **Print** option is available, because DSS does not have access to the user's e-mail address.
- NOTE: Notification is not available for all fax delivery methods.
- 6. Select the quality of the fax by selecting a resolution from the **Resolution** drop-down list.
- **NOTE:** The user cannot change the resolution setting from the device control panel.
- 7. Optionally, provide a **Billing Code** that can be used for accounting.

If the user needs to type or change the billing code, select the **Allow users to edit billing code** check box. In addition, type in the minimum number of characters to use for a billing code value in the **Minimum Length** text box.

Analog fax

If the Device has an analog fax modem, faxes can be sent by using this functionality rather than using DSS.

Figure 3-32 Fax subtab on the Configure Devices tab set – Analog fax option – 1 of	of 2
--	------

	⑦ Configure Device (x.x.x.x)	
	General Authentication Send to E-mail Addressing Log Preferences Properties Fax Send to Folder Send to Workflows	
2	Enable Fax Send	~
	Enable Fax Receive Fax Send	
3	Internal Modem	
	Fax Dialing Securitys Fax Dialing Mode Dialing Prefix	
4	Low	
	Redial Interval Redial on No Answer Redial on Busy	
R	Eav Cond Cattlere	
	Error Correction Mode Fax Header I Enable 381G Compression	
	Enabled V Prepend	
	Common Job Settings	\equiv
	Condition on Which to Notify Method Used to Deliver Notification	
	All Errors 💌 Print 🖳 🔤 Include Thumbnail	
	>Note: The e-mail address associated with a user's account is used for notification when a user signs in at the device. If not signed in, the user must enter an e-mail address before protification is part. The device must also be set up to use an SMTP ensure.	
	Scan Settings	
	Resolution	
	Standard (100 x 200dpi)	
	Billing Codes	
	Billing codes are used to track faxes sent from this device. If billing codes are on, a message will appear every time a fax is sent unless users are not allowed to edit the billing code.	
	Default Billing Code Minimum Length	
	1 VAllow users to edit billing code	
	Common Analog Fax Settings	
	Country/Region Company Name	
	United States	
	Phone Number	
0	Fax Archive	
<u> </u>	Enable Fax Archiving	
	E-mail Address	
W	Fax Forwarding	
	Enable Fax Forwarding	
	Forwarding Number	
12	Troubleshooting	
\mathbf{U}	T.30 Report	
	Never	
	Signal Strength Transmit Signal Loss: This selection compensates for phone line signal loss. It is not recommended to modify this setting unless requested to do so by an	нр
	service representative as it may render the FAX inoperable.	
	Restore Default Telecom Settings: This selection resets any modifications made under the Transmit Signal Loss selection and should be used only at the direction of an HP service representative.	
	Reports and Internal Pages	
	Print Activity Log	
	Clear Activity Log	
	Analog Fax Receive	
	Fax Job Options	
-	stopes Staple	
	Paper Selection Output Bin	
	Stamp Received Faxes	

	-	
Callout	Component	Description
1	Enable Fax Send	Click to select this check box to enable the Fax Send for the device.
2	Enable Fax Receive	Click to select this check box to enable the Fax Receive for the device.
3	Fax Send	Select the Fax Send method from the drop-down menu.
4	Fax Dialing Settings	Use the following settings to configure fax dialing at the device.
		• Fax Dial Volume. Select from the drop-down menu.
		• Dialing Mode . Select from the drop-down menu.
		• Dialing Prefix . Type the dialing prefix in the text box.
		• Redial Interval. Select from the drop-down menu.
		• Redial on No Answer. Select from the drop-down menu.
		• Redial on Busy. Select from the drop-down menu.
		• Detect Dial Tone. Click the check box to select.
5	Fax Send Settings	Use the following settings to configure fax send settings at the device.
		• Error Correction Mode. Select from the drop-down menu.
		• Fax Header. Select from the drop-down menu.
		• Enable JBIG Compression. Click the check box to select.
6	Default Send Notification Settings	The Default Send Notification Settings are a part of the Common Job Settings group. The e-mail address associated with a user's account is used for notification when a user signs in at the device. If not signed, the user must enter an e-mail address before notification is sent. The device must also be set up to use an SMTP server.
		Use the following settings to configure the Default Send Notification Settings at the device.
		• Condition on Which to Notify. Select from the drop-down menu.
		• Method Used to Deliver Notification. Select from the drop-down menu.
		• Include Thumbnail. Click the check box to select.
7	Scan Settings	The Scan Settings are a part of the Common Job Settings group. Click to select the Resolution from the drop-down menu.
8	Billing Codes	Billing codes are used to track faxes sent from the device. If billing codes are on, a message will appear every time a fax is sent unless users are not allowed to edit the billing code.
		• Default Billing Code. Type into the text box.
		• Minimum Length. Type into the text box.
		• Allow users to edit billing code. Click the check box to select.

Table 3-24 Analog fax option — Fax subtab on the Configure Devices tab set — 1 of 2

Callout	Component	Description		
9	Device Modem Settings	The Device Modem Settings are a part of the Common Analog Fax Settings group. Use the following controls to configure the modem settings for the device.		
		• Country/Region . Select from the drop-down menu.		
		• Company Name . Type into the text box.		
		• Phone Number. Type into the text box.		
10	Fax Archive	The Fax Archive is a part of the Common Analog Fax Settings group. Use the following controls to configure the fax archive for the device.		
		• Enable Fax Archiving. Click to select the check box.		
		• Type of fax job to archive. Select from the drop-down menu.		
		• E-mail Address. Type into the text box.		
11	Fax Forwarding	The Fax Forwarding is a part of the Common Analog Fax Settings group. Use the following controls to configure fax forwarding for the device.		
		• Enable Fax Forwarding. Click to select the check box.		
		• Type of fax job to forward. Select from the drop-down menu.		
		• Forwarding Number. Type into the text box.		
12	Troubleshooting	Troubleshooting is a part of the Common Analog Fax Settings group. Use the following controls to troubleshoot fax functions for the device.		
		• T.30 Report . Select from the drop-down menu.		
		• Type of fax job to forward . Type into the text box. This selection compensates for phone line signal loss. It is not recommended to modify this setting unless requested to do so by an HP service representative, as it might render the fax inoperable.		
		• Restore . Click this button to restore default telecom settings. This selection resets any modifications made under the Transmit Signal Loss selection and should be used only at the direction of an HP service representative.		

Table 3-24	Analog fax ont	tion — Fax subtab	on the Configu	re Devices tab	set — 1 of 2	(continued)
	Anulog lux op	lion – i ux Sublux	/ on the coningu			(continucu)

Callout	Component	Description	
13	Reports and Internal Pages	The Reports and Internal Pages are a part of the Common Analog Fax Settings group. Use the following controls to work with the fax reports for the device.	
		• Print Activity Log . Click to print the report.	
		• Clear Activity Log. Click to clear the activity log on the device.	
14	Fax Job Options	The Fax Job Options are a part of the Analog Fax Receive settings. Use the following controls to configure the fax job options for the device.	
		• Sides . Select from the drop-down menu.	
		• Staple. Select from the drop-down menu.	
		• Collate . Click to select the check box.	
		• User Editable. Click to select the check box.	
		• Paper Selection. Select from the drop-down menu.	
		• Output Bin . Select from the drop-down menu.	
		• Stamp Received Faxes. Click to select the check box.	

Figure 3-33 Fax subtab on the Configure Devices tab set – Analog fax option – 2 of 2

(23)	Rings To Answer	Maximum Baud Rate
Ring Interval	Ring Frequency	
Condition on Which to Notify Mother	Lload to Deliver Natification	
All Errors Print	Include	Thumbnail
Note: The e-mail address associated with a u	ser's account is used for potification when	a user signs in at the device. If not signed in the user must enter an e-mail address befor
otification is sent. The device must also be se	t up to use an SMTP server.	a user signs in at the device, if not signed in, the user must enter an e-mail address bero
ax Printing Schedule		
Always print faxes		
Always store faxes		
Use Fax Printing Schedule		
Event Tune	Dav/Data	Time
Nocked Fax List		
llocked Fax List	Add	
Slocked Fax List	Add	

Callout	Component	Description		
15	Fax Receive Settings	The Fax Receive Settings are a part of the Analog Fax Receive settings. Use the following controls to configure the fax receive settings for the device.		
		• Ringer Volume . Select from the drop-down menu.		
		• Rings to Answer . Select from the drop-down menu.		
		• Maximum Baud Rate. Select from the drop-down menu.		
		• Ring Interval . Type into the text box.		
		• Ring Frequency . Type into the text box.		
16	Default Receive Notification Settings	The Default Receive Notification Settings are a part of the Analog Fax Receive settings. The e-mail address associated with a user's account is used for notification when a user signs in at the device. If not signed in, the user must enter an e-mail address before notification is sent. The device must also be set up to use an SMTP server.		
		Use the following controls to configure the default receive notification settings for the device.		
		• Condition on Which to Notify. Select from the drop-down menu.		
		 Method Used to Deliver Notification. Select from the drop-down menu. 		
		• Include Thumbnail. Click to include a thumbnail.		
17	Fax Printing Schedule	The Fax Printing Schedule is a part of the Analog Fax Receive settings. Use the following controls to configure the default receive notification settings for the device.		
		• Always print faxes. Click to select.		
		• Always store faxes. Click to select.		
		• Use Fax Printing Schedule. Click to select.		
		• Add. Click to add items to the fax printing schedule.		
		• Edit. Click to edit items in the fax printing schedule.		
		• Remove . Click to remove items from the fax printing schedule.		
18	Blocked Fax List	The Blocked Fax List is a part of the Analog Fax Receive settings. Click Add to put a fax number on this list.		

Table 3-25 Analog fax option — Fax subtab on the Configure Devices tab set — 2 of 2

Configuring the analog fax feature on the device

- 1. On the DSS server, open the Configuration Utility and select a device from the list on the **Device Configuration** tab.
- 2. Click **Configure Device...**, and then select the **Fax** tab.
- 3. Select the **Enable Fax Send** check box to enable the send-to-fax feature. If you want to enable the device to receive faxes, click **Enable Fax Receive**.

- 4. Configure the following settings for using analog fax on the device.
 - Select the Fax Dialing settings from the Fax Dialing Volume, Dialing Mode, Redial Interval, Redial on No Answer, and Redial on Busy drop-down menus.
 - Type in the **Dialing Prefix** and click to select the **Detect Dial Tone** check box if needed.
 - Click to select the Fax Number Confirmation, Enable PC Fax Send, and Enable JBIG Compression check boxes if needed.
 - Select Error Correction and Fax Header settings from the drop-down menus.
- 5. Select the fax notification options in the **Notification** group box.
 - Make a selection from the **Condition on which to notify** drop-down menu. The options are **Never**, **Always**, or **for errors on any faxes**.
 - When notification is enabled, the **Method used to deliver notification** drop-down menu becomes available. If authentication is enabled, the two options are **Print** and **E-mail**. If authentication is not enabled, only the **Print** option is available, because DSS does not have access to the user's e-mail address.
 - NOTE: Notification is not available for all fax delivery methods.
- 6. Select the quality of the fax by selecting a resolution from the **Resolution** drop-down list.
- **NOTE:** The user cannot change the resolution setting from the device control panel.
- 7. Optionally, provide a **Billing Code** that can be used for accounting.

If the user needs to type or change the billing code, select the **Allow users to edit billing code** check box. In addition, type in the minimum number of characters to use for a billing code value in the **Minimum Length** text box.

- 8. Configure the Common Analog Fax settings:
 - Configure the **Device Modem** settings.
 - **Country/Region.** Type the country/region in which the device is located.
 - **Company Name.** Type the company name.
 - **Phone Number.** Type the phone number to which the device internal modem is connected.
 - Configure the **Fax Archive** settings.
 - Enable Fax Archiving
 - Type of fax job to archive
 - E-mail address
 - Configure the **Fax Forwarding** settings.
 - Enable Fax Forwarding
 - Type of fax job to forward
 - Forwarding number

- Configure the **Troubleshooting** settings.
 - T30 Report
 - Signal Strength
 - Restore
- Select the **Reports and Internal Pages** you want to receive.

Send to Workflows

This section contains the following topics:

- <u>Configuration overview</u>
- Configure DSS
- Configure the Device

Configuration overview

Workflows, in conjunction with third-party applications, gives device users the ability to send additional information along with the scanned document to a specified location (defined by the third-party application). Prompts can be used to query the device user for specific information. The third-party applications can then retrieve and decipher the information, performing the desired operation on the scanned image.

Metadata files

Metadata files related to Send to Workflow contain information about the user prompts and answers given at the device control panel.

Menu structure

Workflows are arranged in an hierarchical fashion. The top-most level is Groups. The default group is called the Common Device Group and cannot be deleted. Typically, the Common Device Group contains a superset of all workflows. Create additional groups only if you want different devices to present a different list of workflows to the device user. For example, if you wanted the device in the marketing department to present only marketing specific workflows, you might create a Marketing Workflow Group that contained a subset of the workflows (the marketing specific ones). You would then configure the marketing department's device to use the Marketing Workflow Group (see the Send to Workflow settings in Device Configuration). All your other devices would then be configured to use the Common Device Group.

The next Workflow level is Menus. Menus are the first level which are viewable at the device's control panel. Typically, Menus are used to categorize workflows. Within a Menu, you can create another Menu (up to 30 levels deep) or a Form. A Form is where you specify all the necessary details of a Workflow so that it can properly function with a third-party application. Within a Form, you can also specify Prompts, which allow for gathering data from the device user.

Configure DSS

The Configuration Utility **Workflows** tab can also be used to view workflow entries or to set up workflow processes.

Figure 3-34 The Workflows tab

General	E-mail	Authentication	Fax	Send to Folder	Workflows	Addressing	Device Configuration	Lon Abo	ut.
General	E-mail	Authentication	Fdx	Send to Folder	WORKHOWS	Addressing	Device Conliguration	LOG ADO	ut
Workflows									
	[[COMMON M	FP GROUP]]							
📃 Displa	y Prompt Text	t							
	2								
	Add	d Group		Md M	enu		Add Form		Add Prompts
	E	dit		Remov	re				

Table 3-26 Workflows tab

Callout	Component	Description			
1	Workflows	This list shows the workflows that are set up and available for use to any of the devices connected to the DSS server. Click to select the Display Prompt Text check box to show the prompt text for each workflow in the list. The following controls are available to help configure workflows.			
		• Add Group. Click to add a group to a workflow.			
		• Add Menu. Click to add a menu to a workflow.			
		•	Add Form. Click to add a form to a workflow.		
		•	Add Prompts. Click to add prompts to a workflow.		
		•	Edit. Click to change workflow settings.		
		•	Remove. Click to remove a workflow from the list.		

Configure the menu structure (groups, menus, and forms)

The workflow configuration process comprises three steps:

- Creating the workflow group, which defines which workflow menus and forms are available on the device control panel.
- Creating the workflow menu, which creates logical groups of workflow forms.
- Creating the workflow form, which accumulates information that the user specifies at the control panel before initiating a send-to-workflow job.

Groups

The first step in creating a workflow process is to create a workflow group.

- NOTE: Rather than creating a new group, the default group, called the **Common Device Group** can also be used. This group cannot be deleted. Custom groups are optional and provide a way to associate different workflows with different devices or groups of devices.
 - 1. On the DSS server, open the Configuration Utility and click the **Workflows** tab.
 - 2. Click Add Group. The Workflow Group dialog box appears.
 - 3. Type the name of the new group. The name must be unique.
 - 4. Click to select either the This group does not contain the devices mentioned below option or the This group contains workflows that will be used on LJ9065, LJ90 option.
 - 5. Click **OK** to save the new group.

Menus

The second step in creating a workflow process is to create a workflow menu.

- 1. In the workflow tree, click a group to select it.
- 2. Click Add Menu. The Workflow Menu dialog box appears.
- 3. Type the name of the new menu. This name must be unique within the workflow group.
- 4. Click **OK** to save the new workflow menu.

Forms

The final step in creating a workflow process is to create a workflow form. Forms are destinationspecific. Three destination types are available:

- Folder
- FTP site
- Printer

The following sections describe how to create a workflow form for each of these destination types.

Folder

To create a workflow form for a folder destination

1. Click a workflow menu to select it.

2. Click Add Form. The Workflow Form dialog box appears.

Figure 3-35	Workflow Fo	rm dialog box
-------------	-------------	---------------

Workflow Form		
Form Name (Quick Set Title)	Destination Type	~
1	Folder	~
Destination Settings		
Network Type	UNC Folder Path	
Windows 🗸		
	(\\path\path)	
Authentication Settings		
Use credentials of user to connect after Sign I	n at the control panel	
Always use these credentials		
Windows Domain	Username	
Password		
	Verify Access	
Image Presets:		
[[cColorDocument]]		
C Scan Settings		
Original Size	Custom Dimension Units*	
Letter		~
Custom X Dimension*	Custom Y Dimension*	
8.50	11.00	
Original Sides	Optimize Text/Picture	
Simplex		~
Optimize For	Content Orientation*	
1 - (Text)	Portrait	~
2-Sided Format*	Background Cleanup*	
×	3 - (Normal)	~
Darkness*	Sharpness*	
5 - (Normal)	3 - (Normal)	~
Contrast*	Color Dropout*	
5 - (Normal)		~

3. In the **Form Name** text box, type a name for the new form. The name must be unique within the workflow menu.

- 4. Select Folder from the Destination Type drop-down list.
- NOTE: Based on the option selected, the options on the Workflow Form dialog box change. This procedure applies to the Folder option. See the following sections for instructions for creating a workflow form for an FTP site or a printer.
- Select the Network Type from the drop-down menu. Type the path for the destination folder in the Folder Path text box, or browse to select a path.
- 6. In the Authentication Settings section, click to select the Use credentials of user to connect after Sign In at the control panel option to have DSS use the credentials of the user that is logged into the device. Or click to select the Always use these credentials option and then type in the Windows Domain, Username, and Password. Click Verify Access to test the credentials.
- 7. Select a setting from the **Image Presets** drop-down menu, if needed.
- 8. Under **Scan Settings** and **File Settings**, select the settings for the scanned file. These should be the settings that the third-party software program that processes the file requires.
- 9. From the Meta Data File Settings section, select the file type for the metadata file from the File Format drop-down menu. The options are None, HPS, or XML. The metadata file contains the data that is collected by the workflow prompts. If no prompts are being created, select None.
- 10. In the **Prompts** area, define any appropriate prompts and expected responses for the user of the workflow form. The prompts appear on the device control panel. The responses to the prompts are saved in the metadata file, which is stored with the document image for use by the third-party workflow software program.

Follow these instructions to add prompts.

a. Click Add. The Add Prompts dialog box appears.

Figure 3-36	Add	Prompts	dialog box	
-------------	-----	---------	------------	--

Available Prompts:	Prompt List:	
Document Id 💭 DOCUMAINUSERID 💭		-
DSS HOST (💭 EMAIL 🢭 FILE NAME 💭	New	
FILE PATH () FORMNAME () FORMDATH ()	Edit Delete	-

b. In the **Add Prompts** dialog box, click **New** to create a new prompt. This opens the **Workflow Prompt** dialog box.

rompt Settings	Pernonse Settings
rompt Settings rompt Name Hidden Prompt Text Help Text	Response Settings String Entry User Must Supply a Response Password/Privacy Minimum Length 1 Maximum Length
	128 Default Response

Figure 3-37 Workflow Prompt dialog box

- c. Under Prompt Settings in the Workflow Prompt dialog box, type the Prompt Name. This name is used internally and is not visible to the user. It must be unique within the workflow form.
- d. Select the **Hidden** check box if the prompt is not to be shown to the user. Hidden prompts are typically used to send specific unaltered information to the third-party programs in the metadata file. When the **Hidden** check box is selected, a **Prompt Information** text box appears. Type the information for the hidden prompt in the **Prompt Information** text box.
- e. In the **Prompt Text** text box, type the text that you want to appear on the device control panel.
- **f.** In the **Help Text** text box, type the help text for the prompt. The help text appears if the user touches HELP on the device control panel while the prompt is on the screen.
- **g.** Select a setting from the **Response Settings** drop-down menu. The following table provides a description of each option.

Format	Att	Attributes				
String Entry	٠	The user can type any alphanumeric string.				
	٠	Minimum length: 1				
	•	Maximum length: 127				
Number Entry	•	The user is limited to typing numbers only.				
	•	Decimal places range from 0 to 15				
	•	Minimum Value: 0				
	•	Maximum Value: 4294967295				
Selection List	•	The user can select from a list of options.				

Table 3-27 Response format options

Format	Attributes			
Date	The user is limited to typing a date value in the form of HH/DD/YYYY. The d format cannot be changed.	ate		
Time	The user is limited to typing a time value in the form of HH:MM:SS using the hour clock. The time format cannot be changed.	: 24-		

- h. Click to select the User must supply a response check box to require a response to the prompt.
- i. Click to select the **Password Privacy** check box to have passwords displayed as asterisks.
- **j.** As appropriate, type a default response in the **Default Response** text box. The program uses the default response if the user does not provide a response to the prompt. Specify the **Minimum Length** and **Maximum Length** by typing values in the text boxes.
- **k.** Click **OK** to save the prompt settings. The new prompt is added to the **Prompts List** in the **Add Prompts** dialog box.
- I. Repeat steps as needed to create more prompts.
- **m.** After creating all of the required prompts, use the **Move** buttons to the right of the list to adjust the order of the prompts.
- **n.** Click **OK** to accept the new set of prompts. The new prompts appear in the **Prompts** area of the **Workflow Form** dialog box.
- 11. Click **OK** to accept all of the settings on the **Workflow Form** dialog box. The new form appears in the workflows list on the **Workflows** tab.
- NOTE: A workflow form can be edited at any time by selecting it and then clicking Edit.
- 12. Click **Apply** to save the new workflow settings.

FTP site

The following instructions describe how to send a workflow document to an FTP site rather than a network folder.

1. Click a workflow menu to select it.

2. Click Add Form. The Workflow Form dialog box appears.

Figure 3-38	Workflow form	for an FTP site
-------------	---------------	-----------------

Workflow Form	
Form Name (Quick Set Title)	Destination Type
	[[cFTPSite]]
Destination Settings	
FTP Server	FTP Path
Authentication Settings	
Username	Password
Image Presets:	
Scan Settings	
Original Size	Custom Dimension Units*
Letter	~
Custom X Dimension*	Custom Y Dimension*
8.50	11.00
Original Sides	Optimize Text/Picture
Simplex 🗸	×
Optimize For	Content Orientation*
1 - (Text)	Portrait 💌
2-Sided Format*	Background Cleanup*
~	3 - (Normal)
Darkness*	Sharpness*
5 - (Normal)	3 - (Normal)
Contrast*	Color Dropout*
5 - (Normal)	~
- File Settings	
Default File Name*	
[Untitled]	
Default Color Preference*	Default Output Quality*
Color	Medium 💌

3. In the **Form Name** text box, type a name for the new form. The name must be unique within the workflow menu.

- 4. Select FTP Site in the Destination Type drop-down menu.
- 5. In the **FTP Server** text box, type the host name or TCP/IP address of the FTP server.
- 6. In the **FTP Path** text box, type in the path to the directory on the FTP server that will hold the scanned documents.
- 7. In the **Authentication Settings** section, type in the username and password that are required for the FTP server.
- 8. Select a setting from the **Image Presets** drop-down menu, if needed.
- 9. Under **Scan Settings** and **File Settings**, select the settings for the scanned file. These should be the settings that the third-party software program that processes the file requires.
- From the Meta Data File Settings section, select the file type for the metadata file from the File Format drop-down menu. The options are None, HPS, or XML. The metadata file contains the data that is collected by the workflow prompts. If no prompts are being created, select None.
- 11. In the **Prompts** area, define any appropriate prompts and expected responses for the user of the workflow form. The prompts appear on the device control panel. The responses to the prompts are saved in the metadata file, which is stored with the document image for use by the third-party workflow software program.

Follow these instructions to add prompts.

a. Click Add. The Add Prompts dialog box appears.

vailable Prompts:	Prompt List:	
DATE 💭 Document Id 💭		
DOMAINUSERID 🔛 DSS HOST 🗐		-
	New	
	Edit	-
FORMNAME 💭 FORMPATH 💭	Delete	

Figure 3-39 Add Prompts dialog box

b. In the **Add Prompts** dialog box, click **New** to create a new prompt. This opens the **Workflow Prompt** dialog box.

rompt Settings	Pernonse Settings
rompt Settings rompt Name Hidden Prompt Text Help Text	Response Settings String Entry User Must Supply a Response Password/Privacy Minimum Length 1 Maximum Length
	128 Default Response

Figure 3-40 Workflow Prompt dialog box

- c. Under Prompt Settings in the Workflow Prompt dialog box, type the Prompt Name. This name is used internally and is not visible to the user. It must be unique within the workflow form.
- d. Select the **Hidden** check box if the prompt is not to be shown to the user. Hidden prompts are typically used to send specific unaltered information to the third-party programs in the metadata file. When the **Hidden** check box is selected, a **Prompt Information** text box appears. Type the information for the hidden prompt in the **Prompt Information** text box.
- e. In the **Prompt Text** text box, type the text that you want to appear on the device control panel.
- **f.** In the **Help Text** text box, type the help text for the prompt. The help text appears if the user touches HELP on the device control panel while the prompt is on the screen.
- **g.** Select a setting from the **Response Settings** drop-down menu. The following table provides a description of each option.

Format	Att	ributes
String Entry	•	The user can type any alphanumeric string.
	•	Minimum length: 1
	•	Maximum length: 127
Number Entry	•	The user is limited to typing numbers only.
	•	Decimal places range from 0 to 15
	•	Minimum Value: 0
	•	Maximum Value: 4294967295
Selection List	•	The user can select from a list of options.

Table 3-28 Response format options

Format	Attributes	
Date	The user is limited to typing a date value in the form of HH/DD/YYYY. The d format cannot be changed.	ate
Time	The user is limited to typing a time value in the form of HH:MM:SS using the hour clock. The time format cannot be changed.	: 24-

- h. Click to select the User must supply a response check box to require a response to the prompt.
- i. Click to select the **Password Privacy** check box to have passwords displayed as asterisks.
- **j.** As appropriate, type a default response in the **Default Response** text box. The program uses the default response if the user does not provide a response to the prompt. Specify the **Minimum Length** and **Maximum Length** by typing values in the text boxes.
- **k.** Click **OK** to save the prompt settings. The new prompt is added to the **Prompts List** in the **Add Prompts** dialog box.
- I. Repeat steps as needed to create more prompts.
- **m.** After creating all of the required prompts, use the **Move** buttons to the right of the list to adjust the order of the prompts.
- **n.** Click **OK** to accept the new set of prompts. The new prompts appear in the **Prompts** area of the **Workflow Form** dialog box.
- 12. Click **OK** to accept all of the settings on the **Workflow Form** dialog box. The new form appears in the workflows list on the **Workflows** tab.
- NOTE: A workflow form can be edited at any time by selecting it and then clicking Edit.
- 13. Click **Apply** to save the new workflow settings.

Printer

The following instructions describe how a workflow form can also be used to send a scanned document to a network printer to be printed.

1. Click a workflow menu to select it.
2. Click Add Form. The Workflow Form dialog box appears.

Figure 3-41 Workflow form for a printer

Destination Type
Printer
•
Preferences
Original Sides*
Simplex
Content Orientation*
Portrait
Sharpness*
3 - (Normal)
Contrast*
5 - (Normal) 🔻

- 3. In the **Form Name** text box, type a name for the new form. The name must be unique within the workflow menu.
- 4. Select **Printer** in the **Destination Type** drop-down menu.
- 5. In the **Select Printer** drop-down menu, select a printer from the list of available network printers.
- 6. Select one of the option buttons to use the default or custom printer preferences. If custom printer preferences are selected, click **Preferences** to set them up.
- NOTE: The device user cannot change any of these print settings from the device control panel.
- 7. Select a setting from the **Image Presets** drop-down menu, if needed. Options include **Color Document** and **Photo**.

- 8. Under **Scan Settings**, select the settings for the scanned file. These should be the settings that the third-party software program that processes the file requires.
- 9. Click **OK** to save the workflow form.
- **10.** Click **Apply** to save the settings on the **Workflow** tab.

Configure the Device

The Send to Workflows subtab is shown in the following illustration.

Figure 3-42 Send to Workflows subtab in the Configure Devices tab set

🖗 Configu	re Device (x.x	.x.x)								
General	Authentication	Send to E-mail	Addressing	Log	Preferences	Properties	Fax	Send to Folder	Send to Workflows	
Enable Se	nd to Workflows									
Workflow Gr	oup									
[[COMMON	MFP GROUP]]	*								
-									Apply	Cancel He

 Table 3-29
 Send to Workflows subtab – Configure Devices tab set

Callout	Component	Description
1	Enable Send to Workflows	Click to select the Enable Send to Workflows check box.
2	Workflow Group	Select a workflow group from the drop-down menu.

Configure the device to use Send To Workflows

- 1. Click to select the Enable Send to Workflows check box on the Send To Workflows tab on the Device Configuration tab set.
- 2. Select a workflow from the **Workflow Group** drop-down menu.
- 3. Click Apply.

Addressing

This section contains the following topics:

- Address Book Manager
- Personal address books
- Exchange contacts
- Guest address book
- Public address book
- LDAP replication
- Configure direct LDAP addressing on the device
- LDAP filters
- <u>Configure DSS for Windows Active Directory Services</u>

Address Book Manager

Use the **Address Book Manager** on the **Addressing** tab to manage the address books for the DSS service.

🕅 Address Book Manager			_[0];
DSS Address Books	Address Book Contacts		Refresh
Public Personal Address Book MFP GUEST	Contact Name	E-mail Address	Fax Number
Export Delete	LDAP contacts are not managed or editable in t	he Address Book Manager.	Add Group Edit Delete
Import Address Book			OK

Figure 3-43 Address Book Manager

Table 3-30	Address	Book	Manager
-------------------	---------	------	---------

Callout	Component	Description		
1	DSS Address Books	The DSS Address Books list shows the address books available to the devices connected to the DSS server. Click an address book to see the address book contacts appear in the window to the right. Use the follow controls to configure the address books		
		• Export . Click to export an address book.		
		• Delete . Click to delete an address book from the list.		
		• Import Address Book. Click to import an address book.		
2	Address Book Contacts	The address book contacts appear in this part of the window. Use the following controls to manage contacts.		
		• Refresh . Click to update the contacts list.		
		• Add Contact. Click to add a contact.		
		• Add Group. Click to add a group.		
		• Edit. Click to edit a contact.		
		• Delete . Click to delete a contact.		
		• Finish. Click to close the Address Book Manager.		

Importing addresses using the Address Book Manager

E-mail addresses can be imported from the Address Book Manager so that they can be made available to devices served by DSS. Four types of e-mail address lists can be imported:

- .CSV
- .HPB
- .LDIF
- Microsoft Exchange

Configuring address books on the Addressing tab

Use the Configuration Utility **Addressing** tab to configure DSS to make centralized address books available to digital-sender users.

Figure	3-44	The	Addre	ssing	tab

	C man	Additionation	Tux	Send to Folder	Torratoria	Addressing	bevice conligated	on cog	About		
Search Me	thod										
Quick	Search (Find r	matches beginning v	ith the se	arch string.)							
Oetaile	ed Search (Fin	d matches containin	g the sear	rch string.)							
Personal C	Contacts										
The perso	nal contacts fo	or a user can be retr	eved from	n a Microsoft Exchang	ge Server if the u	ser has a Person	al Address Book (PAB) associated	with his or h	er user accour	nt.
Enable	e Personal Cor	itacts (when users si	gn in to V	Vindows at the device	e)						
Windows	Domain										
Lineseper				-							
Usernam	e		Pds	swora							
lest						_					
Enter at le	ast 3 characte	ers to test the retriev	al of Pers	onal Contacts from th	Test ne Microsoft Exch	ange Server acc	ount (Username) defi	ned above. I	or example,	test "Wil" to v	verify recipients
Enter at le name "Wil	aast 3 characte Ison" or "Willia	ers to test the retriev ams" are returned.	al of Pers	onal Contacts from th	Test he Microsoft Exch	ange Server acc	ount (Username) defi	ned above. I	for example,	test "Wil" to v	verify recipients
Enter at le name "Wil Network C	east 3 characte Ison" or "Willia Contacts	ans to test the retrievenses to test the retrievenses are returned.	al of Perso	onal Contacts from th	Test he Microsoft Exch	ange Server acc	ount (Usemame) defi	ned above. I	or example,	test "Wil" to v	verify recipients
Enter at le name "Wil Network C	aast 3 characte Ison" or "Willia Contacts e Network Cor	ars to test the retriev ans" are returned. Itacts (use LDAP sen	al of Perso ver)	onal Contacts from th	Test	ange Server acc	ount (Username) defi	ned above. I	for example,	test "Wil" to v	verify recipients
Enter at le name "Wil Network C	aast 3 characte Ison" or "Willia Contacts a Network Cor took Manager	ers to test the retriev ims" are returned. itacts (use LDAP sen	al of Persi ver)	onal Contacts from th	Test he Microsoft Exch	ange Server acc	ount (Username) defi	ned above. I	or example,	test "Wil" to v	verify recipients t
Enter at le name "Wil Network C Enable Address B Address B	aast 3 characte Ison" or "Willia Contacts a Network Cor look Manager ess Book Mana	ers to test the retriev ims" are returned. itacts (use LDAP sen	al of Persi ver)	onal Contacts from th	Test he Microsoft Exch	ange Server acc	ount (Username) defi	ned above. I	for example,	test "Wil" to v	verify recipients t
Enter at le name "Wil Network C Enable Address B Address	aast 3 characte Ison" or "Willia Contacts e Network Cor Kook Manager ess Book Mana	ers to test the retriev ims" are returned. itacts (use LDAP sen	al of Persiver)	onal Contacts from th	Test	ange Server acc	ount (Usemame) defi	ned above. I	or example,	test "Wil" to v	verify recipients t
Enter at le name "Wil Network C Enable Address B Address	aast 3 characte Ison" or "Willia Contacts a Network Cor ook Manager ess Book Mana	ers to test the retriev ims" are returned. itacts (use LDAP sen	ver)	onal Contacts from th	Test he Microsoft Exch	ange Server acc	ount (Username) defi	ned above. I	for example,	test "Wil" to v	verify recipients t
Enter at le name "Wil Network C Enable Address B Address B	aast 3 characts Ison" or "Willia Contacts a Network Cor ook Manager ess Book Mana	ars to test the retriev mis" are returned. Itacts (use LDAP sen	ver)	onal Contacts from th	Test	ange Server acc	ount (Username) defi	ned above. I	ior example,	test "Wil" to v	rerify recipients i
Enter at le name "Wil Network C Enable Address B Address	aast 3 charactu Ison" or "Willia Contacts a Network Cor ook <u>Manager</u> ess Book <u>Mana</u>	ers to test the retriev ims" are returned. Itacts (use LDAP sen	ver)	onal Contacts from th	Test	ange Server acc	ount (Username) defi	ned above. I	for example,	test "Wil" to v	rerify recipients
Enter at le name "Wil Network C Enable Address B Address	east 3 charactt Ison" or "Willia Contacts a Network Cor ook Manager ess Book Mana	ars to test the retries ims" are returned. Itacts (use LDAP sen	ver)	onal Contacts from th	Test he Microsoft Exch	ange Server acc	ount (Username) defi	ned above. I	for example,	test "Wil" to v	verify recipients
Enter at le name "Wil Network C Enable Address B Addres	east 3 charactt Ison" or "Wille Contacts e Network Cor ook Manager ess Book Mana	ers to test the retriev mms" are returned. ttacts (use LDAP sen	ver)	onal Contacts from th	Test he Microsoft Exch	ange Server acc	ount (Username) defi	ned above. I	ior example,	test "WI" to v	verify recipients
Enter at le name "Wil Network C Enable Address B Address	east 3 charactt Ison" or "Willie Contacts e Network Cor ook <u>Manager</u> ess Book <u>Mana</u>	ers to test the retriev ms" are returned. ttacts (use LDAP sen sger	al of Persi	onal Contacts from th	Test ne Microsoft Exch	ange Server acc	ount (Username) defi	ned above. I	ior example,	test "WII" to v	venfy recipients i
I est Enter at le name "Wil Network C I Enable Address B Address B	aast 3 characto Ison' or "Willie Contacts e Network Cor ook Manager ess Book Mana	ars to test the retriev ims" are returned. Itacts (use LDAP sen	al of Persi	onal Contacts from th	Test ne Microsoft Exch	ange Server acc	ount (Usemame) defi	ned above. I	ior example,	test "Wil" to v	verify recipients
I est Enter at le name "Wil Network C Enable Address B Address B	aast 3 characto Ison" or "Willie Contacts e Network Cor ook Manager ess Book Mana	ars to test the retriev mis" are returned. tacts (use LDAP sen	ver)	onal Contacts from th	Test ne Microsoft Exch	ange Server acc	ount (Username) defi	ned above. I	ior example,	test "Wil" to v	verify recipients

 Table 3-31
 Addressing tab

Callout	Component	Description
1	Search Method	Click to select Quick Search to find matches beginning with the search string. Click to select Detailed Search to find matches containing the search string.
2	Personal Contacts	The personal contacts for a user can be retrieved from a Microsoft Exchange Server if the user has a personal address book (PAB) associated with his or her user account.
		Click to select the Enable Personal Contacts (when users sign into Windows at the device) check box to enable this feature. Then type in the Windows Domain , Username , and Password . To test the credentials, type at least 3 characters into the Test text box, and then click Test .

Callout	Component	Description					
3	Network Contacts	Click to select the Enable Network Contacts (use LDAP server) check box, and then follow the steps below.					
		 Network Directory Server (LDAP) (Step 1). Use the following controls to designate the LDAP server. 					
		 Type the hostname or IP address in the LDAP Server Address text box or click AutoFind to have DSS find the LDAP server address. 					
		• Click to select the Use a secure connection (SSL) check box.					
		• Tye the port number in the Port text box.					
		• Server Authentication Requirements (Step 2). Click to select one of the following options.					
		 Server does not require authentication. 					
		• Server requires authentication.					
		• LDAP Database Search Settings (Step 3). Use the following controls to configure the search settings.					
		 Type in the Path to Start Search (BaseDN, Search Root) or click Auto Find to have DSS find the path. 					
		 Select a Source for Attribute Names or click Auto Find to have DSS find the source. 					
		 Type in the attribute to match the recipient's name, e-mail address, and fax number. 					
		 In the Advanced Search Options section, Select the Maximum LDAP Addresses and the Maximum Search Time from the drop-down menus, and then type in the LDAP Filter Condition in the text box. 					
		 Test for LDAP Retrieval (Step 4). Type in at least 3 characters to test the retrieval of address book entries using the LDAP setup, and then click Test. 					
		• Sync Schedule (Step 5). Select a sync schedule from the drop-down menu, or click Sync now. The last replication shows in the text box.					
4	Address Book Manage	 Click this button to launch the Address Book Manager. For more information, see <u>Address Book Manager on page 103</u>. 					

Table 3-31 Addressing tab (continued)

Configuring Personal Contacts feature

When the **Enable Personal Contacts** check box on the **Addressing** tab is selected, users can gain access to their personal Outlook contacts address books at the device. Exchange Contacts support is only available if authentication is enabled and the authentication method is set to Microsoft Windows. See <u>Authentication on page 46</u> for more information.

Configuring DSS address books

DSS uses address books to store e-mail addresses that a user types at the device. If user authentication is enabled on the device, addresses are stored in a user's personal DSS address book. Otherwise, the addresses are stored in a public DSS address book. These DSS address books

are available to every digital sender or device that DSS supports. If the addresses that are contained in these address books are no longer needed, they can be deleted by clicking **Clear** in the **DSS Address Books** section of the **Addressing** tab. This lists all existing address books, so that one or more of them can be selected.

Configuring LDAP directory replication

The e-mail addresses and fax numbers in the address book come from several sources:

- The LDAP server on the network
- Destinations that users have previously specified at the control panel
- E-mail and fax address books that have been created by using the HP Address Book Manager

One of two methods can be used to synchronize the digital-sender address books with the LDAP server. <u>Table 3-32 Address book synchronization on page 107</u> contains descriptions of these methods.

Method	Description	Effect at the control panel
Using a replicated LDAP address book	DSS takes a snapshot of the LDAP server database and populates the device address book with the addresses that it finds. The Configuration Utility can be used to either initiate the task manually or schedule it to run automatically at a certain time.	As the user types the initial characters in a name, the device attempts to complete the name from the names in the address book. The user types more characters until a match is found. When the user selects a name, the associated e-mail address is automatically selected.
Using an LDAP address book directly	Firmware in the device initiates and resolves name queries directly with the LDAP server. The administrator does not need to synchronize the address book with the LDAP server, either manually or according to a schedule.	The user types a partial name. The device shows the list of resulting names from the LDAP server. When the user selects a name, the associated e-mail address is automatically selected.

Table 3-32 Address book synchronization

NOTE: If the device is configured to use an LDAP address book directly, it cannot gain access to the replicated address book. If replication is used, only the display names and e-mail addresses are replicated.

To set up automatic replication of the LDAP address book

- 1. On the DSS server, open the Configuration Utility and click the **Addressing** tab.
- 2. Click to select the **Enable Network Contacts** check box. The screen expands to show the steps for configuring the LDAP server.

HP DI	gital Sendi	ng Softwarn Co	nfigurati	an								
ieneral	E-mail	Authentication	Fax	Send to Folder	Workflows	Addressing	Address Book Manager	Preferences	Device Configuration	Log	About	
©Quic ODeta	Nethod k Search (Pin alled Search ()	d matches beginnin find matches contail	g with the ning the or	search string.) sarch string.)								
he per	Contacts sonal contacts ble Personal C	i for a user can be r ontacts (when user	etneved fv s sign in to	om a Microsoft Exch Windows at the de	ange Server if ti vice)	he user has a Pe	rsonal Address Book (PAB) a	ssociated with his	or her user account.			
Enel	Contacts Sile Network C	ontacts (use LDAP s	ierver)									
	letwork Direct	ory Server (LDAP) (Ship 1)									
5	erver Autheri	ication Requirement	ts (Step 2)	ř.								
1	DAP Database	e Search Settings (S	lep 3)									
	est for LDAP	VECTOR (SOLD 4)										
	Sync											
	Never		~									
	Last Replicatio	per l										
	(cNotReques	ted]					Sync Now					
								-			-	
								QK.	Cancel	PEDRY .	199	į

- Click the arrow next to Sync schedule. The screen expands to show sync options.
- 4. Select a replication schedule from the **Sync** drop-down menu. Click **Sync Now** to replicate now. The **Last Replication** text box displays the last time the LDAP address book was replicated.

Personal address books

The Personal address book feature is automatically activated when users are authenticated at the device. The feature allows users to access and maintain a Personal address book from the front panel of any devices connected to the same DSS server.

An administrator can manage the contents of the Personal address books using the Address Book Management tab in the Configuration Utility.

Exchange contacts

The Exchange Contacts feature allows users to access their Microsoft Exchange Contacts from the front panel of devices. The feature must be activated in the DSS Configuration Utility. Users have read only access to the Exchange Contacts – entries added from the front panel of the device go into the Personal address book.

Guest address book

The Guest address book is always available to all devices and cannot be disabled. This address book is used to store addresses added by un-authenticated users ("guests") from the front panel of devices.

Public address book

The Public address book is always available to all devices and cannot be disabled. An administrator can use the Address Book Management tab in the Configuration Utility to manage the contents of the address book.

When enabled any address book entries added from the front panel of devices by un-authenticated users will be put into the Public address book – and thereby be available to all other devices connected to the same DSS server.

Use the Public Address Book when certain e-mail addresses and/or fax numbers need to be available to all devices.

LDAP replication

The LDAP Replication feature is designed to off-load LDAP servers by replicating the information into the DSS address book at a schedule set by the administrator. The address book information replicated from LDAP is stored in a dedicated, read-only and hidden address book.

The configuration settings for LDAP Replication are very similar to those for LDAP Addressing. The administrator needs to supply the address/name of the LDAP server, which port to connect to, the "bind" method and credentials, as well as the "search root" (search context) and attribute settings.

Configure direct LDAP addressing on the device

An address book is available at each Digital Sending device to speed up the process of selecting e-mail and fax destinations from the control panel. The e-mail addresses and fax numbers in the address book can be located on the LDAP server on the network or at a destination that has been previously specified at the control panel. This function is not supported in older device models.

Firmware inside the device initiates and resolves name queries directly with the LDAP server. The address book does not have to be synchronized with the LDAP server, either manually or on a schedule. To initiate a search at the control panel, the user types a partial name. On the device, the list of resulting names from the LDAP server appears. When a name is selected, the associated e-mail address or fax number is automatically entered.

Adding addresses

Addresses can be added to the device address book in the following ways:

- The user can touch **Add** on the device control panel to add a specific address.
- If the Exchange Contacts feature is enabled, the user can add addresses to their Outlook contact list and these addresses will automatically be made available at the device.

Clearing addresses

DSS uses address books to store e-mail addresses that a user types at the device. If user authentication is enabled on the device, addresses are stored in a user's individual DSS address book. Otherwise, the addresses are stored in a public DSS address book. DSS address books are available to every digital sender or device that the DSS server supports. If the addresses contained in

these address books are no longer needed, they can be deleted by clicking **Clear** on the **Addressing** tab in the Configuration Utility.

LDAP filters

When doing an LDAP search, users and groups will appear in the result found.

To be able to filter the LDAP search, follow these steps.

- 1. Open the Configuration Utility, and then click the **Device Configuration** tab
- 2. Click to select the device that you would like to filter. Click Configure Devices.
- NOTE: If all the devices need this filter, configure one and then copy the configuration to the other devices.
- 3. The **Configure Devices** dialog box appears. Click the **Addressing** subtab.
- Click to select the Enable Network Contacts (use LDAP server) check box, and then click the arrow next to LDAP Database Search Settings (Step 3).

Figure 3-46 The LDAP Database Search Settings section

Con	figure Devices (19:	2.168.0.10)									
Gener	ral Authentication	Send to E-mail	Addressing	Log	Preferences	Properties	Fax	Send to Work	flows		
letw	ork Contacts	(
	nable Network Contacts	(use LDAP server)									
(v) (Network Directory Server (LDAP) (Step 1)											
	Server Authentication	Requirements (Step	2)								
)	Dath b data set and (Security Security)										
	Path to start search (baseuw, Search Koot): Auto Find										
	Source for Attribute Names:										
	Use Active Directo	ny Default									
	Use Exchange 5.5	Default									
	OUse Custom Attrib	iutes		A	uto Find						
	Match the Recipient's Name with this attribute:			Attri	Attribute Name for Recipient's E-mail Address:				Attribute Name for Recipient's Fax Number:		
	displayName			ma	mail				facsimileT	elephoneNumber	
	Advanced Search Options										
	Maximum LDAP Addresses		LDA	AP Filter Conditio	'n						
			~								
	Maximum Search Time				Entries in Database are Alphabetized						
	1.0										
)	Test for LDAP Retrieva	al (Step 4)									
										Apply Cancel	Help

5. In the LDAP Filter condition text box, type in the syntax to filter the LDAP search.

To exclude the groups setting for Exchange 5.5, the filter would be (! (objectclass=groupofnames)).

Other e-mail settings could include but not limited to the following:

- iPlanet: (!(objectclass=groupofuniquenames))
- Active Directory: (!(objectclass=group))
- 6. Click Apply.

Configure DSS for Windows Active Directory Services

You must install the Digital Sending Software and ensure that the Digital Sending Service is running before you can configure the software for the Windows Active Directory environment.

Configure Authentication

Follow these steps to configure Authentication for the Windows Active Directory environment.

- 1. Open the DSS Configuration Utility and click on the Authentication tab.
- 2. Click to select the **Enable Authentication** check box, and then select **Microsoft Windows** from the **Authentication Method** drop-down menu.

Figure 3-47 Authentication tab

	gital a	lending Sol	tware	e Configurat	lon						CILIER
meral B	E-mail	Authentication	Fax	Send to Folder	Workflows	Addressing	Address Book Manager	Preferences	Device Configuration	Log About	
[cEnab	leAuthe	intication]]									
uthentica	ation Me	ethod									
Acrosoft	Window	ws.									
Indows	Sign In	Setup (Kerberos	and N	TLM)							
Trusted I	Domain	\$						Default Wind	lows Domain		
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mencas niapacif pocorp mea.cpo	repideon fic.epideo net georp.ne	et									
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Vatch th	te name	entered with th	is attrib	ute							
				Contractor and the second		mail					
	The dev	I'VE LIGHT T ALTERN	1.0000000000000000000000000000000000000	a using this action		11-40-0					
SEL IEVE											
Test Wir	ndows 5	iign In									
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Test Wr Domai Userna	ndows S n ime est	Sign In			Pastword						
Test Wr Domai Userna	ndows S m me est	lign In			Paspword						
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- 3. Type in the domain name in the **Trusted Domains** text box, and then click **Add**.
- 4. In the **Test Windows Sign In** section, select the domain from the **Domain** drop-down menu, and then type in the username and password for an authenticated user in the **Username** and **Password** text boxes. Click **Test** to test the credentials.
- 5. Click Apply.

Configure Addressing

Devices configured to use the Digital Sending Software can be configured to use one of two different types of address books: (1) an address book that resides on the server on which the Digital Sending Software is installed, and (2) the Global Address List (GAL) that exists as data in Active Directory. You can only configure a device to use one of these addressing methods at a time.

In option one, the Digital Sending Software can be configured to periodically export data from the Global Address List to the service-based address book. Or, by using the Address Book Manager (an optional component of the Digital Sending Software) administrators can create recipients by entering names and e-mail addresses or can import lists of recipients in several popular formats. In either case, devices perform queries of the service-based address book as users enter a recipient's e-mail address at the control panel of the device. Option one has the advantage that NTLM can be used to "bind" (authenticate) to the Active Directory server. Option two only provides Simple authentication.

NOTE: NTLM authentication can be used as the bind method for option one. Option two only provides Simple authentication. If Simple is chosen, the username and password are transmitted over the network as 'cleartext.' This means that this information can be read by anyone with access to the data on the network.

Configure the Service-Based Address Book

Follow these steps to configure the service-based address book.

- 1. Open the DSS Configuration Utility and click the **Addressing** tab.
- 2. Click to select the Enable Network Contacts (use LDAP server) check box.
- In the Network Directory Server (LDAP) Step 1 section, type in the IP address or Hostname of the Domain Controller or Global Catalog Server in the LDAP Server Address text box.
- NOTE: If the Global Catalog Server is used, the default LDAP port must be changed to 3268.
- 4. In the Server Authentication Requirements (Step 2) section, click to select the Server requires authentication option, and then select NTLM from the drop-down menu.
- 5. Type the credentials of an authenticated user into the **Username**, **Password**, and **Domain** text boxes.
- 6. In the **Sync Schedule** section, select the replication frequency.
- 7. Click Apply.

Configure individual devices to connect to the LDAP interface of Active Directory

- 1. Open the DSS Configuration Utility, and then click the **Device Configuration** tab.
- 2. Click to select the device you want to configure, and then click **Configure Device**.
- 3. Click the Authentication subtab. Set the Authentication Method to Microsoft Windows.
- 4. Set the Login Method to Simple.
- 5. Type in the credentials of an authenticated user into the **Username**, **Password**, and **Domain** text boxes.
- 6. Type the IP Address or Hostname of the Domain Controller or Global Catalog Server.

- 7. Make sure the **LDAP Database is Alphabetized** check box is not selected. When configuring for Active Directory Services, in most cases, having this check box selected will cause names shown in the list of matching names to **not** appear in alphabetical order.
- 8. Click Apply.

4 Support and troubleshooting

This chapter contains the following topics:

- Obtaining support
- Control panel messages
- DSS error messages

Obtaining support

This section contains the following topics:

- HP customer care service and support
- Finding documentation and other supporting information
- Using Internet support

HP customer care service and support

Along with your product, you receive a variety of support services from HP and our support partners. These services are designed to give you the results you need, quickly and professionally. For information about HP support locations, see the support flyer that came in the box with your HP product, or visit <u>www.hp.com</u>.

Finding documentation and other supporting information

The following table outlines the source for, and description of, the information that is available about issues that can arise when using HP DSS.

Source	Description
Device online Help system	Digital Sending-enabled devices feature an online Help system that provides instructions for resolving common problems. To use Help, press ? on the control panel.
Activity-log messages	The activity log is a record of Digital Sending and is probably the best tool for troubleshooting. It contains information, warning, and error messages that can help resolve problems. It also provides access to the embedded Web server event log for devices.
	Two logs can be viewed:
	• The Configuration Utility Log tab shows general log messages for DSS.
	 In the Device Configuration section of the Configuration Utility, a second Log tab shows log messages that are specific to the selected device.
	See the Help file for the Configuration Utility for a list of messages and recommended actions.
Windows Event Viewer messages	The Event Viewer shows a record of the startup procedure for the DSS that is running on the Windows server.
Control-panel messages	Messages appear on the device control panel to report Digital Sending problems.
Configuration Utility messages	Messages appear in the Configuration Utility when problems occur.
Alert notifications	E-mail alert notifications can be sent when Digital Sending problems occur. The Help file for the Configuration Utility explains how to do this.

Table 4-1 Sources of information

Using Internet support

Information about the software and all documentation can be found at the following Website:

www.hp.com/support/dss

Control panel messages

This section lists and explains the messages that might appear on the device control panel during Digital Sending.

If a problem persists, contact an HP-authorized dealer.

Table 4-2	Device co	ontrol-pane	I messages
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Message	Description and actions
Address book is full. To add an address, you must first delete an address.	Delete unused addresses from the address book.
Access denied	The user is trying to use a feature or access a folder that they do not have authorization to use. If the user is trying to send to a folder, verify that the folder is set up to be shared.

Message	Description and actions
Authentication failed: Error code ###	Authentication failed for a reason other than incorrect user- specified information (username and password). The following error codes might appear in the error message.
	• 201: Unexpected failure.
	• 202 : Authentication is not available. The service is too busy to accept the authentication request.
	• 203 : Authentication is not supported.
	• 204 : Encryption is not supported.
	• 205: Invalid parameter
	 206: Invalid LDAP logon method (the LDAP server doe not support this logon method.)
	 207: Unexpected LDAP failure occurred, either because the LDAP server failed or the connection is bad.
	• 208 : The LDAP server not available; it either is not a server or is not running LDAP.
	• 209 : The LDAP server is too busy.
	 210: Invalid LDAP username because the user does n have access to the LDAP server.
	• 211: Invalid LDAP user password
	• 212: Invalid LDAP user credentials
	• 213: Invalid LDAP user domain
	 214: Invalid LDAP privileges because the user does n have permission to read from the LDAP database.
	 215: Invalid LDAP user record because the user does not have an entry in the LDAP database.
	 216: Invalid LDAP container because the search root i invalid.
	• 217: Invalid LDAP name attribute
	• 218: Invalid LDAP e-mail name attribute
	• 219 : Invalid fax attribute
	• 220: Invalid LDAP display-name attribute
	• 221: No e-mail address at the specified attribute
	 222: Tested user does not have an account on the domain

Message	Description and actions
Authentication failed: Error code ### – continued	• 223: Tested user's password is not valid
	• 224: Tested user's credentials are not valid
	• 225: Tested user's domain is not valid
	• 226: Test account exists but cannot be opened
	• 227 : The server did not contain the necessary information to locate the user's home mail server.
Authentication information is incorrect. Please re-enter information.	The username or password that was used is incorrect. Type the information again.
	Verify that the settings on the Authentication tab of the Configuration Utility are correct for the network.
Digital Send Communication Error.	The device was unable to connect to the DSS service.
	1. Verify that the DSS program is running.
	2. Verify that the DSS server and the device are connected to the network.
	3. Restart the DSS service.
	4. Restart the computer on which DSS is installed.
Digital Send server is not responding. Contact Administrator.	The device cannot communicate with the DSS server. Check the network connection. Verify that the DSS server is running and has an active network connection.
E-mail Gateway did not accept the job because the attachment was too large.	Resend the job by using a lower resolution setting, smaller file size setting, or fewer pages.
	Increase the attachment size that the e-mail gateway accepts (see the documentation for the e-mail package).
	Read the "returned mail" message (if one was received) to determine the reason that the e-mail message was not delivered.
E-mail Gateway did not respond. Job failed.	The e-mail gateway stopped responding while the device was processing a digital-send job.
	1. Verify that the SMTP server is running.
	2. Select another SMTP server.
	 Verify that the SMTP server and the device are connected to the network.
	4. Try sending the job later.
E-mail Gateway is not configured. Contact administrator.	The user attempted to select E-mail as a send option, but no TCP/IP address for a SMTP Gateway has been configured.
	Use the Configuration Utility to configure the e-mail gateway.

Message	Description and actions				
E-mail Gateway is not responding. Contact	An e-mail gateway is configured, but is not responding.				
administrator.	1. Verify that the SMTP server is running.				
	2. Select another SMTP server.				
	 Verify that the SMTP server and the device are connected to the network. 				
	 Restart the computer on which the DSS service is installed. 				
E-mail Gateway rejected the job because of the addressing information. Job failed.	Correct the e-mail address and send the job again.				
Error executing Digital Send job. Job failed.	A transmission error occurred while the device was sending a digital-send job.				
	1. Try sending the job again.				
	 Check the activity log in the Configuration Utility for details about the error. 				
	3. Restart the DSS service.				
	4. Restart the computer on which the DSS is installed.				
HP Digital Sending: Delivery Error	Try sending the job again. If problems continue, check the network connection and contact the network administrator.				
LDAP Server is not responding. Contact administrator.	1. Verify that the LDAP server is running.				
	2. Select another LDAP server.				
	 Verify that the LDAP server and the device are connected to the network. 				
	4. Try sending the job later.				
Login failed. Please try again.	The information that the user typed for authentication resulted in a failure to login (the username or password, or both, was invalid).				
	Try the login again. Make sure that the username and password are valid and that they have been typed correctly.				
	NOTE: The username and password are case-sensitive.				
Network connection required for Digital Sending.	The device was unable to communicate over the network.				
	1. Verify that the device is connected to the network.				
	2. Verify the status of the network.				

Message	Description and actions
No Send Options are currently available	No licensed DSS services are available, and the device is not configured for embedded e-mail or fax capabilities.
	 Use the Configuration Utility to enable one or more send options.
	2. Restart the DSS service.
	 Use the Configuration Utility to verify that the license for the device was typed correctly.
	 Use the Configuration Utility to configure embedded e-mail.
Novell login required	The device has been configured to require a Novell login in order to use the selected feature.
Password or name is incorrect. Please enter correct login.	The username or password is incorrect or was mistyped. Retype the username and password.
	Verify that the settings on the Authentication tab of the Configuration Utility are correct for the network.
The Digital Sending Service at 15.XX.YY.ZZ does not service this device. Contact administrator.	The license for the device was removed from the Digital Sending service at the TCP/IP address 15.XX.YY.ZZ, but the service was able to communicate with the device. Therefore, the device was not notified that it was no longer licensed. When this error occurs, the device is updated to indicate that it is not licensed by a Digital Sending service, so the message will only appear once.
	Relicense the device.
Too many addresses were found to display. Please refine your search.	When the user initiated an address-book search, the number of addresses in the address book that matched the search criteria was more than the device could show on the control- panel display.
	Refine the search by typing more characters before starting the search function.
The folder you have entered is not a valid folder.	The device was unable to validate the path that was typed for the Send to Folder feature. Verify that the correct path is being used.
Unable to send Fax. Please check fax configuration.	The fax accessory must be configured before faxing can take place.
	Configure the fax accessory by using the Configuration Utility, or enable faxing by using the DSS service. Resend the fax job.

DSS error messages

Select the **Notify administrator of critical error** check box on the **General** tab of the Configuration Utility to receive e-mail messages when critical errors occur. The subject line of these e-mail messages reads: **Digital Sending Software – Critical Error Notification**. The e-mail message body reads as follows: "The Digital Sending Software server [server TCP/IP] incurred a critical error [error message]. This error might require administrative action."

This section lists some of the critical-error messages that might be sent.

Table 4-3 Critical error messages

Error Message	Suggested Actions
Insufficient disk space to allow job	Check available disk space on the DSS server. In some high-usage environments where numerous devices are configured in DSS, several gigabytes of free disk space might be required during peak usage periods.
Firmware has not been upgraded on device	This message should be seen only when older devices are managed DSS. Remove the device from the configuration and add it back again.
A notification message was not printed on the [device TCP/ IP] printer	Verify that DSS can communicate with the device that is indicated in the message.
Address Book checking terminated with a severe corruption indication	Call HP Support or an authorized service provider. The Address Book might need to be rebuilt.
The SMTP server didn't accept the e-mail message because it was too big	Reduce the e-mail size limit in DSS to a number less than the limit that is configured at the SMTP server.
A disk file was not downloaded to the [device IP] printer	Remove the device (indicated by the TCP/IP address) and add the device back again to DSS.

Glossary

ABM

The Address Book Manager is used to access public address books in legacy devices.

Anonymous

Choose this option if the selected LDAP server does not require user credentials, also known as authentication, to access the LDAP database.

Authentication

A security feature within the DSS that verifies a user identity with a user name and password. Authentication requires an LDAP server.

Client

This is a PC in a client/server environment.

Configuration Application

Once the software is installed, a configuration program is used to set DSS configuration.

DHCP

Dynamic Host Configuration Protocol software assigns IP addresses to stations on a TCP/IP network. With DHCP, the manual assignment of permanent IP addresses is eliminated.

DNS database

A Domain Name System database resides on a DNS server and maintains domain (host) names and IP addresses. The server needs the database to match host names and IP addresses.

Domain

This is a subnet made up of a group of PCs and servers that are controlled by one security database.

Domain Controller

Software that controls authentication, or security, within a domain.

DSMP

Digital Sender Module Protocol is used by the sending software to communicate with the device.

Dynamic (live) LDAP

This addressing system updates when a new e-mail address is added. Because the address book is updated as new addresses are input, it is never out of date.

Embedded Digital Sending

The term Embedded Digital Sending refers to the technology which is embedded in the firmware of a Digital Sending-enabled device. Typical features include:

- Ability to send documents to e-mail, fax, folder and FTP destinations.
- Address Book capabilities.
- End user authentication through LDAP, Kerberos and other methods.

FTP

File Transfer Protocol is used to transfer files over a TCP/IP network, such as the Internet.

GUI

A Graphical User Interface is employed in a device display.

HP Digital Sending technology

HP Digital Sending technology offers a fast, simple, and reliable way to capture valuable information from paper-based documents and convert it to a digital format that can be processed and routed.

The technology is embedded in HP's high-end Multi-function peripheral (MFP) products, as well as the Digital Sender series and some ScanJet products, and offers a range of features, such as Send to E-mail, Send to Folder, Address Books etc. This functionality can be extended with service-based Digital Sending through the DSS.

HTTP

HyperText Transport Protocol is a communications protocol that connects servers to the Web.

Installer

The administrator uses this program to install the DSS.

Isolated Network

In a training environment, a server could be used to se up a network of a least two PCs and a printer.

LAN Fax server

This server is required if the DSS is configured for the use of LAN Fax.

LDAP

Lightweight Directory Access Protocol is used to access directory listings.

LDAP database

This is where addresses are stored on an LDAP server.

LDAP server

This server is used to obtain addresses from the LDAP database, which contains the device address book. An LDAP server is necessary for authentication.

Microsoft Exchange

This is messaging and groupware software for Microsoft Windows.

MIME

Encoder Multipurpose Internet Mail Extension is the Internet standard for attaching non-text files to standard Internet mail messages. Because PDF and TIFF files are binary, MIME encoding is necessary to convert regular binary data into 7-bit ASCII encoding.

MTIFF (tif.)

A multiple page TIFF allows the user to send multiple .tif documents as one attachment. Some applications are not able to read multiple page .tif documents and only recognize the first page. The attachment appears with a .tif extension, as does the tagged image file format (.tif).

NANP

North American Number Plan

NDS

Novell Directory Services in NetWare software that provides directory services within a server. The DSS uses NDS versions 4.x and 5.x for authentication.

NetWare

Novell operating system software that runs within a server.

NTLM (NT LAN Manager)

Choose this option if the selected LDAP server requires user credentials and supports NT Challenge Response authentication.

PDF (.pdf)

The Portable Document Format is the file format most often used for e-mail attachments. A PDF gives recipients the ability of both view and print the e-mail attachment. The file extension is .pdf.

Seats

A licensed version of the DSS has a limit to how many devices can subscribe to the service. If a software license contains five seats, the connected device holds one seat.

Service-based Digital Sending

Service-based Digital Sending requires DSS to be installed on a Digital Sending server. The Digital Sending server then controls all of the Digital Sending tasks. Performing service-based Digital Sending by using DSS 4.91 and later also adds the ability to Send to E-mail, network folder, and workflow destinations.

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