

AXIS 70
AXIS 70U
AXIS 7000
Network Document Servers

User's Manual

Notices

Take some time to read through the safety notices before installing the Network Document Servers. Please observe all safety markings and instructions when using this product.

Caution! - must be observed to avoid loss of data or damage to your equipment.

Important! - must be observed to avoid operational impairment.

Do not proceed beyond any of the above notices, until you have fully understood the implications.

Copyright Information - The unauthorized copying of materials that are covered by copyright and other international proprietary or intellectual property rights is prohibited in most countries. Axis Communications AB recommends that the users of this equipment seek the necessary authorizations for copying material. The instructions for use in the manual shall not be considered as an inducement to make illicit duplications of material. Any duplication will be made at the user's own risk.

Electromagnetic Compatibility (EMC) -

USA - This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- - Reorient or relocate the receiving antenna.
- - Increase the separation between the equipment and receiver.
- - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- - Consult the dealer or an experienced radio/TV technician for help.

Shielded (STP) network cables must be used with this unit to ensure compliance with the class B limits.

Europe - This digital equipment fulfils the requirements for radiated emission according to limit B of EN55022, and the requirements for immunity according to EN55024 residential, commercial, and light industry (Compliance is not valid for unshielded network cables).



Japan - This is a class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual

Australia - This electronic device meets the requirements of the Radio communications (Electromagnetic Compatibility) Standard 1998 AS/NZS 3548

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Software Trademark Acknowledgments - JPEG code (libjpeg) used courtesy of the Independent JPEG Group. LDAP code (libldap and libber) used courtesy of the University of Michigan at Ann Arbor. Copyright © 1991 Regents of the University of Michigan. All rights reserved. TIFF code (libtiff) used courtesy of Sam Leffler and Silicon Graphics, Inc. Copyright © 1988-1996 Sam Leffler. Copyright © 1991-1996 Silicon Graphics, Inc.

Maintenance - It is recommended that you use a moist cloth to clean the unit. Do not use petroleum based substances as this may cause damage.

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Preface

Thank you for purchasing an Axis Network Document Server. This product allows scanner devices to be connected anywhere in Ethernet and Fast Ethernet networks. Being faster, cheaper and safer than fax, traditional mail and couriers, this is the perfect solution for digitized document distribution over IP networks.



About This Manual - This manual applies to the

- AXIS 70 with software release 1.00 and above
- AXIS 70U with software release 1.00 and above
- AXIS 7000 with software release 2.40 and above.

It provides introductory information as well as detailed instructions on how to install and manage the Document Server in your networking environment. Some knowledge of networking environments would be beneficial to the reader, but is not considered prerequisite.

About Axis - Axis develops solutions for user-friendly and secure communication over wired and wireless networks. The company is a worldwide market leader in network connectivity, with products for the office, facility and industrial environments. More information about Axis can be found at www.axis.com

Support Services

Should you require any technical assistance, please contact your Axis reseller. If your questions cannot be answered immediately, your Axis reseller will forward your queries through the appropriate channels to ensure a rapid response.

If you are connected to the Internet, you can:

- Download user documentation and firmware updates
- Find answers to previously resolved problems in the FAQ database. Search by product, category or phrase
- Report problems to Axis support staff by logging in to your private support area

Visit the Axis support web at:

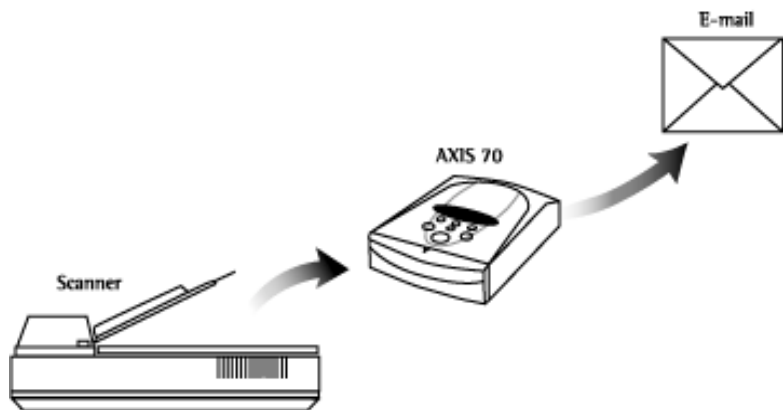
www.axis.com/techsup

Introduction

The AXIS 70/70U Network Document Server

The AXIS 70/70U Network Document Server is the easy solution for instant digital document distribution over networks. Faster, cheaper and safer than fax, traditional mail and courier. The total cost of ownership is favorable since the distribution relies upon the fixed IP network and not fax lines, postage or courier.

- AXIS 70 - SCSI connection
- AXIS 70U - USB connection



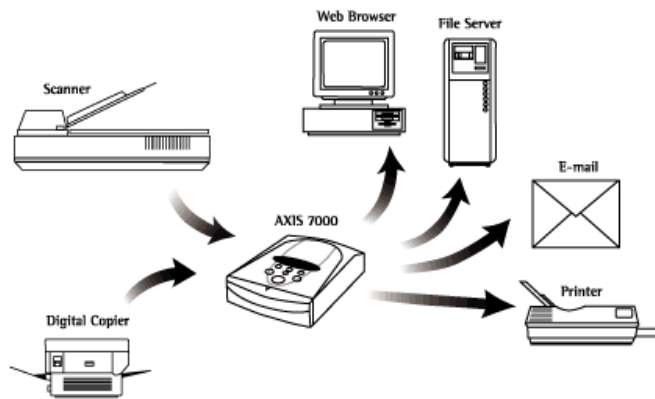
Supplied as a standalone unit, typically located beside your scanner device, one Document Server is required for each scanner.

For convenient electronic distribution of copied materials to e-mail addresses, it is suggested that the Document Server and the scanner device be located in the mail or printer room - in close proximity to the workgroup or department users.

Refer to the table below for a comprehensive list of supported functionality in the AXIS 70/70U and the AXIS 7000.

The AXIS 7000 Network Document Server

The AXIS 7000 Network Document Server connects and networks a broad range of office and production scanners anywhere in Ethernet and Fast Ethernet networks. The AXIS 7000 transforms paper documents into a digital format and sends them as an e-mail attachment, to a file server, to a web page, to print or to a URL thus offering versatile document management over IP networks.



Supplied as a standalone unit and located beside your scanner or digital copier, one AXIS 7000 is required for each device for convenient electronic distribution of copied materials to e-mail addresses and application servers.

Features and Benefits (AXIS 7000)

File Server Independence

The AXIS 7000 is connected as a node in Ethernet or Fast Ethernet networks, enabling scanner devices to be accessed via standard Internet protocols. Communicating directly with the network client, the AXIS 7000 can be used independently of file servers, which means reduced network licensing fees. The product affords high performance, reliability and operational independence from other equipment.

- Simplicity** The file-server-independent approach makes installation quick and convenient. In most environments, the physical connection to the network is the only installation required prior to using the AXIS 7000. No additional software is required on clients or file servers, except for viewing applications for displaying images in TIFF, JPEG and PDF format.
- Web-based Management** The built-in Web server provides cross platform management from any standard Web browser, such as Netscape Navigator or Internet Explorer. The dynamically generated Web pages provide menu-based configuration and management capabilities as well as context sensitive help and links or user documentation and on-line support.
- Flexibility** From the AXIS 7000 control panel, you can send or copy directly to e-mail addresses, FTP servers or desktop directories, and even to network printers. You can also use a standard Web browser to trigger and save scanned documents.
- The diverse range of transfer methods and image formats available means that the AXIS 7000 can easily be integrated into existing workflows and adapted to satisfy your specific requirements.
- Meta Information** Information sent together with the scanned image in the Information file or as a separate document. This information can be used in applications such as workflow systems, archiving systems etc. or for storing in a database server.

- Ease of Use The AXIS 7000 is designed for quick and easy installation on your network and your scanner device. It has a number of interesting features that will help you to simplify the distribution of your paper-based information, including:
- Send-to-e-mail
 - Send-to-Web browser
 - Send-to-File
 - Send-to-Print over Raw TCP or LPD
 - Web-based (HTTP) management and configuration
 - Plug-and-play functionality for supported scanner devices
 - No additional or special software required
 - Integrated scanner drivers, image-file creation and network transfer methods
 - Destinations and profiles saved for regular use
 - External e-mail addresses supported
 - Supports industry standards
- Speed Auto-sense for automatically detecting the speed of the local network segment and varying the rate of data communication accordingly, between 10Mbps and 100Mbps. Transparent operation for Ethernet and Fast Ethernet networks.
- Improved AXIS ETRAX 100 hardware, comprising an integrated 32 bit RISC processor and associated network controllers. Provides high performance and reliability combined with low power consumption.
- Security Password protection of Administration tools.
User authentication supported.
- Upgrading Firmware downloadable to Flash memory using FTP.

Document Server Comparison

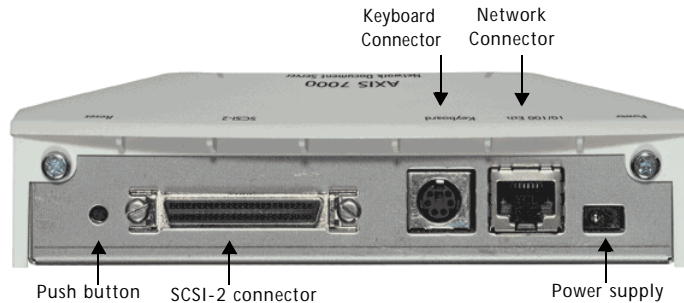
Functionality		AXIS 70	AXIS 70U	AXIS 7000
Supported Devices	Office Scanners < 15 ppm	X	X	X
	Office Scanners > 15 ppm			X
	Production Scanners			X
	Digital Copiers			X
Paper Sizes	Photo/A4/Letter/Legal/A5/B5 paper sizes	X	X	X
	A3 and larger paper sizes			X
	User defines paper sizes			X
Profiles	PDF format	X	X	X
	TIFF format			X
	JPEG format			X
	PCL format			X
	Black/white, grayscale and color support	X	X	X
	Compression format G.4 Packbite, JPEG	X	X	X
	COmpression format G.3, Uncompressed			X
	Duplex support			X
	Multipage scanning to multiple files			X
	More than 10 profiles			X
	Fujitsu Image enhancement			X
Distribution methods	Send-to-e-mail	X	X	X
	Send-to-file			X
	Send-to-URL			X
	Send-to-print			X
	Send-to-web			X
Distribution methods	Delivery confirmation via e-mail	X	X	X

Functionality		AXIS 70	AXIS 70U	AXIS 7000
	Bcc functionality	X	X	X
	Cc functionality	X	X	X
Application Integration	XML support			X
User authentication	NT authentication	X	X	X
	LDAP authentication			X
	SMTP authentication	X	X	X
Address book	LDAP External address book	X	X	X
	FTP External address book			X
Available User settings	Specify file name for e-mail and file destinations			X
	Specify subject for e-mail destinations	X	X	X
	Add temporary e-mail destinations via web			X
	Add temporary e-mail destinations via keyboard	X	X	X
	Add temporary scan profiles via web			X
Hardware	16 MB SDRAM	X	X	X
Other	Scan counter			X
	Real Time clock with battery back-up			X
	Separate info file			X
	Image information in e-mail	X	X	
	SCSI-2	X		X
	USB 1.1		X	

Physical Description

This section provides a physical description of the Document Server and explains the purpose and function of the connectors, indicators and user interface.

The Back Panel (AXIS 7000 AXIS 70)



Push Button The Push button is used for restoring the Document Server parameters. See "*Restoring Factory Default Settings*" on page 133

Connector (AXIS 7000 & AXIS 70) - a SCSI-2 connector for connection to the scanner device
(AXIS 70U)- a USB connector for connection to the scanner device

Network Connector The Document Server is designed for 10 Mbps Ethernet and 100 Mbps Fast Ethernet networks (10baseT and 100baseTX) and connects to the network via an RJ-45 connector, via twisted pair category 5 cable
Auto-sensing allows the Document Server to vary the speed of data communication from 10 Mbps to 100 Mbps according to the local network segment

Keyboard Connector A Mini-DIN connector for connection of a standard PC compatible keyboard

Power Supply For use only with Axis power supply. See "Power Supply" on page 21.

The Front Panel



The front panel indicators show the status of the Document Server. The function of each indicator is described below.

Status Indicator The Status indicator flashes during startup and remains lit when the Document Server is ready for use. If the status indicator turns off, this may indicate an error.

Busy Indicator The Busy indicator turns on when the Document Server is allocated for use and remains on during the scanning process.

Network Indicator The tri-colored network indicator flashes:

Yellow	indicating network activity on a 10MB Ethernet network
Green	indicating network activity on a 100MB Fast Ethernet network
Red	indicating that the unit is not correctly connected to the network

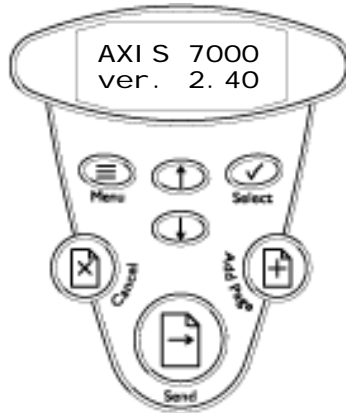
Power Indicator The Power indicator is normally on while power is applied. If the indicator remains off or flashes, this indicates a problem with the Document Server or its power supply

Note:

When the Document Server is idle: the Power indicator should be on, the Network indicator should flash randomly, the Busy indicator should be off and the Status indicator should be permanently lit.





Control Panel


The Document Server Control panel has user keys (described below) and a message display that describes the selected menu options and current status of the unit.



The message display consists of 2 lines of 16 characters indicating status and menu options.



User Keys The function of each user key is described below:



- Add page** The **Add page** key  scans the material in the scanner device. Use this key when scanning each page from bound materials, e.g. books and magazines.
- Cancel** The **Cancel** key  cancels the sending process at any stage and clears any selections made from the menu. It also resets error messages on the display.
- Menu** The **Menu** key  scrolls the menu.
- Select** The **Select** key  selects multiple destinations.

Send The Send key  sends the scanned material to the selected destination(s) and releases the Document Server for other users. For a single page/stack of sheets, use this key to scan the material and send the image in one step.

Up/Down The Up  and Down  keys scroll and select menu options.

User Key Combinations Advanced Settings

Menu Pressing and holding the Menu key  while simultaneously pressing the Select key  displays the **Advanced** menu.

Up/Down Use the Up  and Down  scroll keys to select:

- Event Log
- Firmware version number
- Network settings

Select Use the Select key  to enter the sub menu.

External Keyboard

It is possible to connect a standard PC compatible keyboard to the Document Server. This allows you to easily search long e-mail listings and add any non-listed addresses as temporary additions to the resident address list.

Note:

Be sure to disconnect the Document Server's power supply before connecting the keyboard.

The Instruction label supplied with the Document Server can be attached to your keyboard for quick reference to the function of the main keys.

To enter an e-mail address - press Insert
To search for an e-mail address - type first letters or initials

Network Document Server



Part No 18908

Keys The function of each key is described below:

- F1 The F1 key scans the material in the scanner device. Use this key to scan each page of bound materials, for example, books and magazines. F1 corresponds to the **Add page** key on the control panel.
- F2 The F2 key sends the scanned material to the selected destination and releases the Document Server for other users. For a single page or stack of sheets, use this key to scan the material and send the image in one step. F2 corresponds to the **Send** key on the control panel.
- F3 Press the F3 key to change the profile. Scroll through the list of available profiles by repeatedly pressing F3.
- F4 Press the F4 key to change the paper size. Scroll through the list of available paper sizes by repeatedly pressing F4.
- F5 AXIS 7000 only - Press the F5 key to switch between Duplex (double-sided printing) and No duplex (single-sided printing).
- F6 Press the F6 key to change between defined e-mail subjects. Scroll through the list of available e-mail subjects by repeatedly pressing F6.
- F9 Press the F9 key to select the pre-defined Quick Destination, see "*Specifying Destinations*" on page 57 for more information.
- Esc The Esc key cancels the sending process at any stage and clears any selections made from the menu. It also resets error messages. Esc corresponds to the **Cancel** key on the control panel.

- Tab** The **Tab** key scrolls the menu.
Tab corresponds to the **Menu** key on the control panel.
- Enter** The **Enter** key selects multiple destinations.
Enter corresponds to the **Select** key on the control panel.
- Up/Down** The **Up** and **Down** arrow keys scroll and select menu options.
The **Up** and **Down** arrow keys correspond to the **Up/Down** keys on the Control Panel.
- Note:
- When sending your document, the product always uses the destination and scanning options most recently displayed, whether explicitly selected or not.
- Insert** Press the **Insert** key to add an address or subject. Press **Enter** to finish a new address or subject.
- Delete** Press **Delete** to remove a temporary address, a temporary subject or to delete characters when editing a subject.
- Backspace** Press **Backspace** to delete characters.
- Left** Press the **Left** arrow key to go backwards in the menu.
- Page Up** Press **Page Up** to go to the next entry with a different first character in the "Send to:" or "Sent by:" list.
- Page Down** Press **Page Down** to go to the previous entry with a different first character in the "Send to:" or "Sent by:" list.
- Home/End** Press **Home** to go to the first entry in the "Send to:" or "Sent by:" list.
Press **End** to go to the last entry in a list.
- Ctrl+A** Press **Ctrl+A** to access the advanced menu. Use **Page Up/Down** to scroll and select menu options.

AXIS 7000 Accessories

AXIS MFP Kit

The AXIS MFP Kit is a bracket for mounting the AXIS 7000 and keyboard on a digital copier. Supported copiers include models from Canon, Sharp and Océ. The MFP Kit mounts in less than 10 minutes.

AXIS TR Bridge

The AXIS TR Bridge is an optional accessory for your AXIS 7000 Network Document Server, providing a cost-efficient, permanent or temporary connection to a Token Ring network. Installation is quick and easy, as the device does not require any setup or configuration.

For more information on these and other Axis products, visit the Axis web site at www.axis.com.

Basic Installation

This section describes the various aspects of product installation and includes:

- A detailed hardware inventory
- Instructions for installing the Document Server into your networking environment
- Instructions for setting the IP address using the Document Server control panel, DHCP, RARP, BOOTP and AXIS IP Installer
- Instructions for setting a host name
- Instructions on how to verify your installation

Checking the Hardware Inventory

Unpack and check all the items using the following list. Contact your dealer if anything is missing or damaged. All packing materials are recyclable.

Products

Network Document Server	AXIS 7000	0094-001-01 0094-001-02 0094-001-03
	AXIS 70	0157-001-01
	AXIS 70U	0162-001-01

Media

CD-ROM	AXIS Network Product CD	rev 1.2 or higher
Printed Materials	AXIS 7000 User's Guide/ AXIS 70/70U User's Guide	18630/ 19617
	AXIS 7000 Instruction Label/ AXIS 70/70U Instruction Label	16567/ 19127
	Keyboard Instruction Label	18909

Optional Accessories

SCSI Cables (AXIS 7000) (AXIS 70)	50-pin high-density shielded SCSI-2 connector (micro-D)	14260
	50-pin high-density shielded SCSI-2 connector (Centronics)	14259
AXIS MFP kit (AXIS 7000)	Bracket for mounting AXIS 7000 and keyboard	17439
AXIS MFP kit with US Keyboard (AXIS 7000)	Bracket for mounting AXIS 7000 and keyboard. Keyboard included	17531
Mini Keyboard	US	17588
	DE	17883
	UK	17884
AXIS TR Bridge (AXIS 7000)	Enables a device with Ethernet output to be connected to a Token Ring network	0125-001-01

Power Supply

AXIS PS-H	Europe	19108	AXIS 70 AXIS 70U AXIS 7000 0094-xxx-03
	UK	19109	
	Australia	19111	
	USA/Japan	19110	
	Korea	19112	
AXIS PS-F	Europe	18424	AXIS 70 AXIS 70U AXIS 7000 0094-xxx-03
	UK	18425	
	Australia	18428	
	USA	18480	
	Japan	18480	
AXIS PS-E	Europe	15507	AXIS 7000 0094-xxx-01 0094-xxx-02
	UK	15509	
	Australia	15510	
	USA	15508	
	Japan	15511	
AXIS PS-C	Europe	14235	
	UK	14236	
	Australia	14258	
	USA	14256	
	Japan	14257	

AXIS Network Product CD

The AXIS Network Product CD provides an easy-to-use electronic catalog, that includes Axis product software, utilities software, white papers, user documents, technical notes etc. It can be used within all of the supported Axis computing environments. Document Server does not require any additional software installation from the AXIS Network Product CD.

You can view the contents of the AXIS Network Product CD via Adobe Reader or HTML interface. All documents presented on the CD are in PDF format.

Notes:

- You can download the Acrobat Reader from the AXIS Network Product CD or from the Adobe Web site at www.adobe.com
- All of the software and information provided on the AXIS Network Product CD is also available from the Axis website at <http://www.axis.com>.

Connecting Scanners and Digital Copiers

Important!

- Check that the power supply provided with your Document Server is marked with the correct mains voltage.
- Make sure the scanner device is switched off and the Document Server power supply is disconnected. The SCSI bus may become damaged if you connect or disconnect units when power is on. (AXIS 7000 and AXIS 70)

Connecting the AXIS 7000 / AXIS 70 to your scanner device:

1. Switch off the scanner device and disconnect the Document Server's external power supply.
2. Connect the SCSI cable to the SCSI connector on the Document Server.
3. Connect the SCSI cable to the scanner device. The Document Server uses a built-in SCSI terminator. Note that the scanner device must also be terminated properly. Refer to the documentation supplied with your scanner device.

Connecting the AXIS 70U to your scanner device:

1. Switch off the scanner device and disconnect the Document Server's external power supply.
2. Connect the USB cable to the USB connector on the Document Server.
3. Connect the USB cable to the scanner device.

Note:

The AXIS 70U does not support USB hubs or USB converters and can only be connected to one scanning device at a time.
The AXIS 70U supports USB 1.1

Connecting the Document Server to the Network

Important!

Always consult your Network Administrator before making changes to the network configuration.

Follow the instructions below to connect the Document Server to your network:

1. Turn off the Document Server by unplugging the power supply.
2. Connect your Document Server to the network.

Note:

The Document Server is designed for 10 Mbps Ethernet and 100 Mbps Fast Ethernet networks and connects to the network via a twisted pair category 5 cable (10baseT and 100baseTX).

3. Switch on the scanner device.
4. Connect the external power supply to the Document Server. The network indicator will flash during power up and self test. The following message will appear on the display during self test:

```
AXIS 7000  
Version: x.xx
```

where **x.xx** is the software version number, e.g. 2.40

Notes:

The tri-colored Network indicator flashes:

- yellow - indicating network activity on a 10MB Ethernet network.
- green - indicating network activity on a 100MB Fast Ethernet network.
- red -if there is no network connection.
- Not lit - indicates that there is no network activity.

Assigning an IP Address

To establish communication with the TCP/IP environment, you must assign an IP address and optionally choose a unique host name for your Document Server.

Available Methods Choose your preferred method for setting the IP address from the list below then proceed to the appropriate instructions defined later in this section:

Method	Environment	Description
Control Panels	Suitable for all supported environments.	Provides a convenient method for setting the IP address in all supported networking environments. <i>Note: the administrator can disallow this function from the Web-based Administration pages.</i>
PC Keyboard (Not supplied)	Suitable for all supported environments.	Connecting a PC compatible keyboard directly to the Mini-DIN connector of the Document Server provides a quick and convenient method for managing the unit, and setting the IP address during system startup. <i>Note: the administrator can disallow this function from the Web-based Administration pages. For further details, refer to "User Options" on page 41.</i>


AXIS IP Installer	Suitable for all supported networking environments.	Supplied on the AXIS Network Product CD and available via the Axis web site, this is an Axis tool that simplifies the setting of IP addresses for all Axis ThinServer™ devices, including print servers, camera servers, storage servers and document servers. <i>Note: you should not use AXIS IP Installer to set the IP address of the Document Server, if you have an active DHCP server on your network.</i>
DHCP	Available in Windows NT and UNIX. Recommended method on Windows NT networks	Operates on the entire network and allows for automatic but temporary assignment of IP addresses from a central pool. DHCP will, when enabled, cause the selected host to automatically allocate and download a free IP address, default router address and subnet mask to the requesting Document Server. It also provides validation data that defines how long the IP addresses will remain valid. This is the recommended method on networks, since it allows a number of parameters to be set automatically, provided the DHCP server has been configured to do so.
ARP	Available in Windows 95/98, Windows NT, UNIX and OS/2, Does NOT work over routers. Requires the IP address for each new device to be downloaded individually.	
RARP	Available in UNIX only.	Downloads the IP address to each device automatically. It requires a RARP daemon on your system and operates within a single network segment only.
BOOTP	Available in UNIX only.	Similar to RARP, but operates on the entire network. It requires a BOOTP daemon on your system.

Control Panel

Follow the instructions below to set the IP address from the control panel:

Note:

The Administrator can disallow this function from the web-based Administration pages. For further details refer to "User Options" on page 41.

1. Power up the Document Server. Press Menu  when this display appears:






```
AXI S 7000
Versi on: 2. 40
```

2. After a few seconds this display will be shown:


```
I P address:
000. 000. 000. 000
```

3. Press Select  to edit the IP address:


```
Edi t I P address:
000. 000. 000. 000
```

4. Press Menu  to move through the digits and highlight each digit, one at a time.
5. Use   to increase or decrease each highlighted digit, as required.
6. Press Select  to confirm the changes.
7. Press Menu  to display the default router address setting:

```
Defaul t router:
000. 000. 000. 000
```

8. Press Select  to edit the default router address:



```
Edi t router:
000. 000. 000. 000
```


9. To change the value, repeat steps 4 - 6 above.
10. Press Menu  to display the subnet mask setting:


```
Net mask:
000. 000. 000. 000
```

11. Press Select  to edit the subnet mask:

Edit net mask:
000. 000. 000. 000

12. To change the value, repeat steps 4 - 6 above.
13. Press Menu  to display the node address. This address is not editable. The node address should equal the Document Server serial number found on the underside label of the unit.
14. Press Menu  once more to display the final instructions:

Press  if you
are finished

15. Press Select  to exit the IP settings. The Document Server then completes the startup sequence.
16. Write the name or IP address of the Document Server on the supplied Instructions label and attach it to the top cover.








The Document Server is ready for use when the Status indicator stops flashing and remains lit.

Note:

If you make a mistake while editing the parameters, press the **Cancel** key on the control panel to cancel the operation.

Verifying the Network Settings

Access the **Advanced** menu from the Document Server control panel to verify that the chosen network settings are correct, as described below:

1. Press and hold down the Menu key  while simultaneously pressing the Select key . The **Advanced** menu is displayed.
2. Use   to find the **Network Settings** option.
3. Press Select  to enter the submenus.
4. Use   to scroll through and check the parameter settings.

Using a PC keyboard

Connecting a PC compatible keyboard directly to the Mini-DIN connector of your Document Server provides a quick and convenient method for managing the unit and setting the IP address during system start up. Follow the procedures below to set the IP address from the keyboard.

Note:

The Administrator can disallow this function from the Web-based Administration pages. For further details refer to "User Options" on page 41.

1. The following commands are for the setup of the IP parameters at start-up only. If the keyboard is not already connected, make sure that the Document Server power supply is disconnected before connecting the keyboard to the Mini-DIN connector located on the rear panel.

Connect the Document Server power supply and Press Tab when the following message appears:

```
AXI S 7000
Versi on 2. 24
```

2. After a few seconds the following message will appear:

```
I P address:
000. 000. 000. 000
```

3. Press Enter to edit the IP address:

```
Edi t I P address:
000. 000. 000. 000
```

4. Use the following keys to enter the IP address:
 - Use the numeric keys to enter the digits.
 - Press Left or Right arrow to edit the previous or next digit.
 - Press Backspace to erase the last entered digit.
 - Press Space to move to the next three-digit group.
 - Press Home or End to go to the first or last three-digit group.
 - Press Enter to save and exit.
 - Press Esc to cancel.

The instructions above also apply for editing the router address and subnet mask setting.

Using DHCP, ARP, RARP and BOOTP

Use DHCP, ARP, RARP and BOOTP as an alternative to setting the IP address from the control panel or keyboard. Follow the appropriate instructions for the preferred method below.

Important!

Do not use the IP address used in any of the following examples.

Before you begin:

- **Power** - Make sure the Document Server is powered on and attached to the network.
- **System Privileges** - You will need *administrator* privileges on the Windows NT server or *root* privileges on the UNIX system.
- **Ethernet Address** - Depending on the method you are using, you will need to know the Ethernet address of your Document Server. The Ethernet address is based upon the Document Server serial number. You will find the number on the underside label.
- **IP Address** - Acquire an unused IP address from your Network Administrator.

Using DHCP

Follow these steps to use the DHCP method:

1. Edit or create a scope in the DHCP manager of the DHCP daemon. For Windows NT servers, refer to the "*Windows NT Resource Kit*" on how to do this. The entries made in this scope typically include the following parameters:
 - Range of IP addresses
 - Subnet mask
 - Default router IP address
 - Lease duration
 - Mail server IP address
 - DNS server IP address
 - Domain name
 - NTP server IP address
2. Activate the scope.

Notes:

- DHCP is enabled by default but can be disabled by an Administrator using the System Settings page.
- The IP address and all the other settings will be downloaded automatically. You do not need to restart the Document Server.

Using ARP in Windows In Windows 95 and Windows NT, you can download the IP address using ARP. Perform the following commands to download the IP address and verify the communication.

Important!

Windows 95 only: If the ARP table is empty, you must first ping an existing unit on your network before setting the IP address of your Document Server. Type `arp -a` to display the ARP table.

From the DOS prompt, type the following:

```
arp -s <Internet address> <Ethernet address>  
ping <Internet address>
```

The Ethernet address equals the serial number of the Document Server with each pair of digits separated by a hyphen.

Example:

```
arp -s 172.16.253.80 00-40-8c-11-00-86  
ping 172.16.253.80
```

The host will return 'Reply from 172.16.253.80...' or a similar message. This indicates that the address has been set and that the communication is established.

Notes:

- ARP is enabled by default but can be disabled by an Administrator using the System Settings page.
- Once the Document Server has established communication using an appropriate IP address, the `arp/ping` commands cannot be used to change the address. The reason for this is to avoid accidental or unauthorized changes of the IP address. Restart the Document Server to make it accept the setting of the IP address. You can perform a restart remotely via the Document Server web interface. See "*Specifying the System Settings*" on page 39.
- When you execute the `ping` command for the first time, the response time may be significantly longer than usual.

Using ARP in
UNIX and OS/2

In UNIX and OS/2, type the following commands to download the IP address and verify the communication:

```
arp -s <host name> <Ethernet or node address> temp
ping <host name>
```

The Ethernet address OR node address equals the Document Server serial number with each pair of digits separated by a colon.

Example:

```
arp -s spserv 00:40:8c:11:00:86 temp
ping spserv
```

The host will return 'spserv is alive' or a similar message. This indicates that the address has been set and that communication is established.

Notes:

- ARP is enabled by default but can be disabled by an Administrator using the System Settings page.
- The `arp -s` command may vary between different systems. Some BSD-type systems expect the host name and Ethernet address in reverse order. IBM AIX systems require the additional argument `ether` for Ethernet networks, e.g. `arp -s ether spserv 00:40:8c:11:00:86 temp`
- Once the Document Server has established communication using an appropriate IP address, the `arp/ping` commands cannot be used to change the address. The reason is to avoid accidental or unauthorized change of the IP address. Restart the Document Server to make it accept the setting. You can perform a restart remotely via the Document Server web interface. See "*Specifying the System Settings*" on page 39.
- When you execute the `ping` command for the first time, the response time may be significantly longer than usual.

Using RARP
in UNIX

Follow these steps to download the IP address using the RARP method:

1. Append the following line to your Ethernet address table. This is typically performed by editing the file `/etc/ethers`.

```
<Ethernet address> <host name>
```

Example:

```
00:40:8c:24:c0:1c spserv
```

2. If necessary, update your host table and alias name databases as required by your system.
3. Start the RARP daemon, if it is not already running. This is typically performed using the command `rarpd -a`
4. Restart the Document Server to download the IP address.

Note:

RARP is enabled by default but can be disabled by an Administrator using the System Settings page.

Using BOOTP in UNIX

Follow these steps to download the IP address using the BOOTP method:

1. Append the following entry to your boot table. This is typically performed by editing the file `/etc/bootptab`.

```
<host name>:ht=<hardware type>;vm=<vendor magic>;\  
:ha=<hardware address>;ip=<Internet address>;\  
:sm=<subnet mask>;gw=<gateway field>
```

where:

<code>ht</code>	ether for Ethernet
<code>vm</code>	rfc1048
<code>ha</code>	The Ethernet or node address, i.e. the Document Server serial number
<code>ip</code>	The IP address of the Document Server
<code>sm</code>	The subnet mask
<code>gw</code>	The default router address

Example:

```
spserv:ht=ether;vm=rfc1048;\  
:ha=00408c24c01c;ip=172.16.253.80;\  
:sm=255.255.0.0;gw=172.16.253.254
```

2. If necessary, update your host table and alias name databases as required by your system.
3. Start the BOOTP daemon, if it is not already running. This is typically performed using the command `bootpd -a`
4. Restart the Document Server to download the IP address, default router address and subnet mask.

Note:

BOOTP is enabled by default but can be disabled by an Administrator using the System Settings page.

Mapping a Host Name to the IP Address

If you are using host names, you can map a unique host name to the acquired IP address. Refer to your system manuals or to your Network Administrator for instructions on how to perform the name mapping on your particular system.

Note:

If the host name has not been included in the system host table, you can still perform the following instructions on how to download the IP address. In this case, simply replace the host name entry with the IP address wherever needed.

Registering and
Resolving
Host Names

In order to register the host name of the Document Server in networks with dynamic IP address settings, WINS (Windows Internet Name Service) is supported. It is recommended that this method is used if you are setting the IP address of the Document Server using DHCP.

WINS host name
rules

WINS only supports 15 character long host names. If your host name is longer than 15 characters, the Document Server truncates the host name to 15 characters when registering with a WINS server.

Notes:

- The host name limitations conclude that the host name should be no longer than 15 characters and it should only contain the characters 'A - Z', 'a-z' and '-'.
- Refer to your system manuals or to your network administrator for instructions on how host name resolutions are performed on your system.

Verifying your Installation

After successful installation, the Document Server will verify the attached scanner device and display the name of the detected device. If the scanner device is not supported, an error message will be displayed.

If no destinations have been specified, the Document Server will display:

Connect using
Web browser

If one or more destinations have already been specified, the Document Server will display:

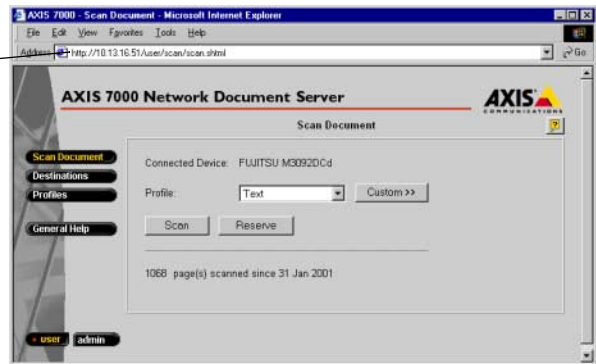
Send to:
xxxxxx

where "xxxxxx" is the first destination in the destination list.

To verify the communication, you can access the Document Server using a standard Web browser such as Netscape Navigator or Internet Explorer:

1. Place a document in the scanner device.
2. Start your Web browser and enter the name or IP address of your Document Server in the location/address field,
e.g. `http://172.16.253.80`
3. The Document Server Home Page is displayed.

Document Server's
IP address



Example from AXIS 7000

4. (AXIS 7000) Click Scan. Depending on the image format specified by the profile, the Web browser will display the scanned image in an associated image viewer or ask you to save the file (AXIS 70/70U) Click admin, enter username and password, click Profiles and click on one of the profile names. Click Scan. Depending on the image format specified by the profile, the web browser will display the image in an associated image viewer, or ask you to save the file.

Configuring the Document Server

This section is targeted specifically to users responsible for the administration of the Document Server. The *Administrator* is granted high-level privileges denied to the ordinary *user*. Some settings described here are available for the AXIS 7000 only.

Important!

To access the Document Server configuration file, you must first set the IP address as described in "Assigning an IP Address" on page 24.

You configure the Document Server from a standard Web browser such as Netscape Navigator or Internet Explorer.

Alternatively, edit the configuration file using a text editor and upload the file to the Document Server using FTP.

Important!


The following settings must be specified by the Administrator before the Document Server can be used for distributing documents on your network:

- Network settings - define the parameters for TCP/IP and SMTP protocols.
- Destinations - specify the e-mail address, file server or printer to which you wish to send your document.

The Administrator can optionally modify:

- System settings - system information, administrator password, language, user privileges etc.
- Profiles
- Paper sizes

Overview of the Administration Tools

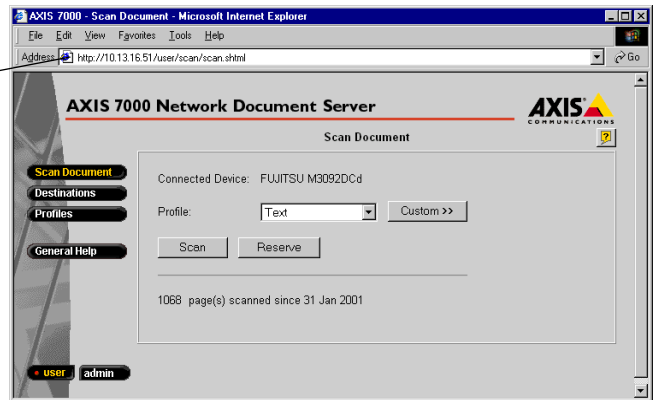
Online help  is available on every page within the Document Server web interface. This is of particular relevance when configuring the unit and should be used as a first point of reference for any administration queries. The help system is stored internally in the Document Server.

The Web-based Administration tools provide a convenient method for managing destinations, profiles, defining the network protocol settings, establishing user privileges, authentication etc. The tools are password protected and available to the *Administrator* only.

Accessing the Tools You can access the Document Server Home Page using a standard Web browser such as Netscape Navigator or Internet Explorer.

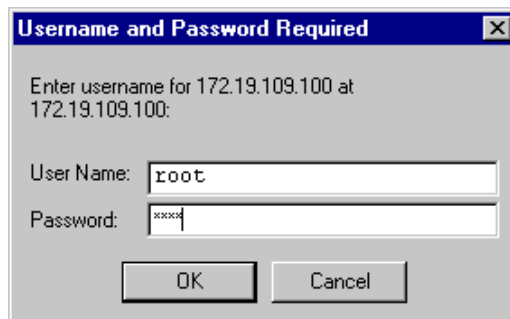
1. Start the Web browser.
2. Enter the name or IP address of the Document Server on the location/address line, e.g. `http://172.16.253.80`
3. This brings you to the Document Server Home Page.

Document Server's
IP address



Example from the AXIS 7000

4. Click **admin**.

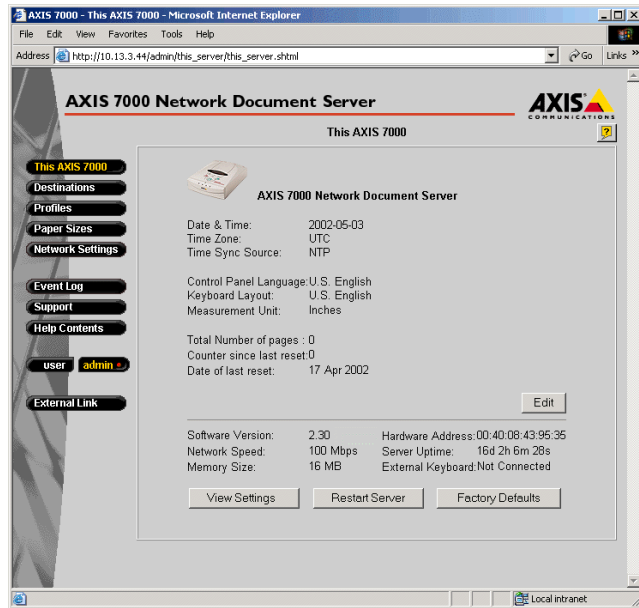


A prompt for a *username* and *password* is displayed when entering these pages for the first time during a Web browser session. At the prompt, log on as *root* and use the default password *pass*.

Note:

It is recommended that you change the password of your Document Server as soon as possible, since all Axis products are shipped with the same default password.

5. The This Document Server page is displayed:



The *Administrator* can modify the system settings directly from this page. Access the other Administration tools using the control buttons to the left of the page.

Specifying the System Settings

Click **This Document Server** page to display software version, unit hardware address, memory size information and the current system settings.

Important!

When installing the Document Server for the first time, it is recommended that the Administrator retains the default system settings, profiles and paper sizes. Optionally, customize these when you are familiar with the unit operation and functionality.

Services overview

The table below provides an overview of the information and services provided by each button on this page:

Button	Description
Edit	Allows editing of the General, Date & Time, User Options, Authentication, International and Meta Information settings.
View Settings	Lists the current parameter settings in the configuration file.
Restart Server	Restarts the Document Server. Removes all previously loaded temporary destinations and profiles from the memory.
Factory Defaults	Restores the factory default settings and restarts the Document Server automatically. All previously loaded destinations are erased from memory.

The Edit Button

Click the **Edit** button to display the **This Document Server - Edit Page**. Clicking the appropriate tag displays the **General, Date & Time, User Options, Authentication, International and Meta Information** settings for your Document Server as described below:

General Server Password and Confirm

This is the *Administrator* password required for accessing the AXIS 7000 for administration tools.

To change the password, simply enter your new password in the **Server Password** field. Repeat the new password in the **Confirm** field to check the spelling and syntax.

Notes:

- It is recommended that you change the password of your Document Server as soon as possible, since all Axis products are shipped with the same password as default.
- If you lose the Server password, you must restore the factory default settings. See "*Restoring Factory Default Settings*" on page 133.
- An asterisk * is displayed for each alphanumeric character that comprises the password in the Server password field of the This Document Server page.

Date & Time If you are using time synchronization, specify the time zone in which the Document Server operates. UTC is Universal Time Coordinated which used to be known as Greenwich Mean Time (GMT), i.e. the local time at the Greenwich meridian (zero degrees longitude). No DST means that automatic adjustment for DST (Daylights Savings Time) is not included. However, the country specific time zones include adjustment for DST.

AXIS 7000 The AXIS 7000 has a built-in real time clock with a back-up battery which will keep the time when the power supply is disconnected.

AXIS 70/70U/7000 **Automatically using the Network Time Protocol (NTP)**
Click here to obtain date and time information from a time synchronization source. Time stamps are used in the event log.

NTP Server

Specify the name or IP address of the NTP server used for time synchronization.

SMB

Click here to obtain date and time information from Microsoft Windows NT Network (SMB) - a time synchronization source for NT domains.

Note:

To use Microsoft Windows NT Network (SMB) properly WINS must be enabled and the Domain/GroupName parameter must be set to a valid name.

Manually

[Click here to set date and time manually.](#)

User Options The **Allow Users to:** field defines the privileges allowed to normal *users* by the *Administrator(s)*. Check the corresponding checkbox for each task a *user* is allowed to perform, namely:

- Add temporary e-mail destinations
- Add temporary profiles (AXIS 7000 only)
- Scan documents to Web browser (AXIS 7000 only)
- Specify the sender of scanned documents
- Configure network settings on the control panel
- Specify file name for e-mail and file destinations (AXIS 7000 only)
- Specify subject for e-mail destinations

Notes:

- All tasks, except *specify the sender of scanned documents* and *Specify file name for e-mail and file destinations* are enabled by default.
- Configuring the network settings on the control panel allows the user to change the IP Address using the control panel or the external keyboard.
- **Specify file name for file destinations** allows the user to enter a new file name for an FTP destination or e-mail destination.

Authentication The authentication option makes it possible for the administrator to allow access to the Document Server to authenticated users only. For more information, please refer to "*Specifying Authentication Settings*" on page 55.

International Allows the *Administrator(s)* to select:

- The preferred language for messages displayed on the Document Server control panel display - English, French, German, Spanish, Italian, Swedish Danish and Norwegian are supported
- The keyboard layout which is compatible with the external keyboard
- The measurement unit to be used for displaying defined paper sizes (centimeters or inches)

Notes:

- The language default is set to English and the measurements to inches.
- When a new language is selected you must go back to the **Profiles** page and click **Restore Predefined Profiles** to change the language in the Profile Name list. This also applies to the language in the Paper Sizes list, i.e. you must go back to the **Paper Sizes** page and click **Restore Predefined Paper Sizes**.

Note: All user-defined profiles and modifications to predefined profiles will be lost when you click Restore Predefined Profiles.

Meta Information
(AXIS 7000 only)

Meta Information handling enables the administrator to request information from the user of the AXIS 7000. This information is requested using an XML DD file. The user is prompted to enter the information at the moment of scanning, using the connected keyboard. For more information, please refer to "*Meta Information*" on page 108.

Specifying Network Settings

Click **Network Settings** to view and modify the configuration parameters for all supported protocols: TCP/IP - defines the:

- IP Address
- Default router
- Subnet mask
- Automatic download method (BOOTP, RARP or DHCP)
- Domain name, DNS server and WINS server
- Web (HTTP) - an external URL reference with URL to page or image options.
- E-mail (SMTP) - defines:
 - IP Addresses or DNS names for primary and secondary e-mail servers
 - SMTP port
 - Connection time-out
 - E-mail reply address
 - Cc address (carbon copy)
 - Bcc address (blind carbon copy)
 - Notify sender when a message has been delivered
 - Notify sender when a message has been read
 - SMTP Authentication
 - E-mail body text content
- External Address Book - defines an external e-mail address book on an LDAP server or a destination list on an FTP server which is automatically retrieved and downloaded to the Document Server.



The network settings are set automatically if you use RARP, DHCP or BOOTP for downloading the IP address. However, it is recommended that you verify the network settings using the Web browser interface, regardless of how the initial network setup was done.

Services Overview


The table below provides an overview of information and services available from this page


Button	Description
Wizard	<p>Guides the user through the setup procedures for the following protocols - TCP/IP, E-mail (SMTP) and the External Address book.</p> <p><i>Note: You cannot set up all of the supported protocols with one pass of the Wizard. After completing one protocol, you then return to the Network Settings Wizard page where you can optionally proceed with another protocol.</i></p>
Detailed View	<p>Displays the Protocols page that allows all of the supported protocols to be set up within a single dialog.</p>
Restart Server	<p>Restarts the Document Server. LED indicators flash during startup and self test. When they have stopped and the Network indicator starts flashing to indicate network activity, the unit is ready for use. New configuration settings will then become active.</p> <p><i>Note: Clicking Restart deletes all temporary destination and profiles and clears the Event Log.</i></p>
View Settings	<p>Lists the current parameter settings in the configuration file.</p>

Using the Wizard


The Wizard provides a convenient way to set up the Document Server in your networking environment. Follow the instructions below to configure the supported networking protocols:

Important!

- The Network settings for the TCP/IP and E-mail (SMTP) protocols must be specified by the Administrator before the Document Server can be used for distributing reproduced documents on the network. You can *optionally* configure the External Address Book for automatic retrieval and loading of e-mail addresses and/or other destination types.
- In order to prevent conflicts with other network devices please be sure to acquire a unique and unused IP address from your Network Administrator.
- The Online help button  provides instructions and general information on all system parameters and is your first point of reference for any administration queries

1. Click **Network Settings**.2. Click **Wizard**  and follow the on-screen instructions to have the Document Server guide you through the configuration procedures for each of the supported network protocols.3. Click **Close**.

Detailed View Follow the instructions below to configure all of the supported networking protocols using **Detailed View**.

1. Click **Network Settings**.2. Click **Detailed View**  to display the Protocols dialog.3. With reference to services overview below and the **Online Help** information, click the appropriate tag to view and modify the protocols to your choosing.

- Click **Apply** to save your changes.
- Click **OK** to save your changes and close the dialog box.

Services Overview

The table below provides an overview of the supported protocol settings describing both purpose and function:

Protocol setting	Purpose and function
TCP/IP	Defines the IP Address, default router and subnet mask, automatic download method (BOOTP, RARP or DHCP), domain name, DNS server and WINS server.

Protocol setting	Purpose and function
Web (HTTP)	An external URL reference with URL to page or image options.
E-mail (SMTP)	Defines the: <ul style="list-style-type: none"> • IP Addresses or DNS names for primary and secondary e-mail servers • SMTP port • Connection time-out • E-mail reply address • Bcc address • Cc address • E-mail notification • SMTP authentication method • E-mail body text contents
External Address Book	Defines an external e-mail address book on an LDAP server or destinations list on an FTP server.

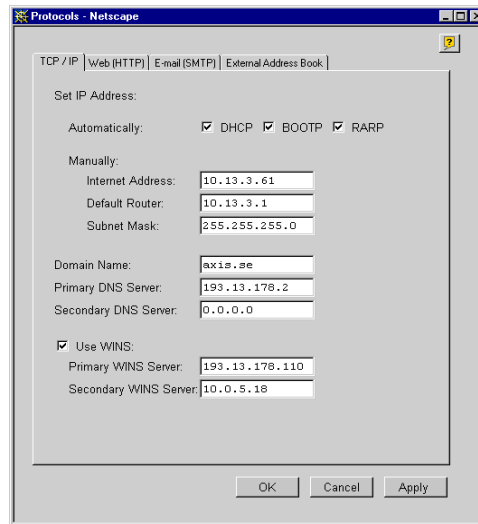
Note:

The AXIS 7000 configuration parameters are fully described in "*The Parameter List*" on page 152.

Configuring the TCP/IP Settings

Follow the instructions below to configure the TCP/IP settings:

1. From the Protocols dialog, click the TCP/IP tag.



2. Check the appropriate checkbox to define your preferred method for setting the IP address automatically, i.e. DHCP, BOOTP or RARP. For further information on these methods, refer to "Assigning an IP Address" on page 24.

Notes:

- If DHCP, BOOTP or RARP is enabled, your manual settings might be overridden when you restart the Document Server.
- Depending on how your network has been configured, other Internet-related parameters such as the default router, subnet mask, mail server, time server etc. might also be set automatically. However, it is recommend that you verify the settings when the Document Server has been restarted and then enter any missing parameters manually.

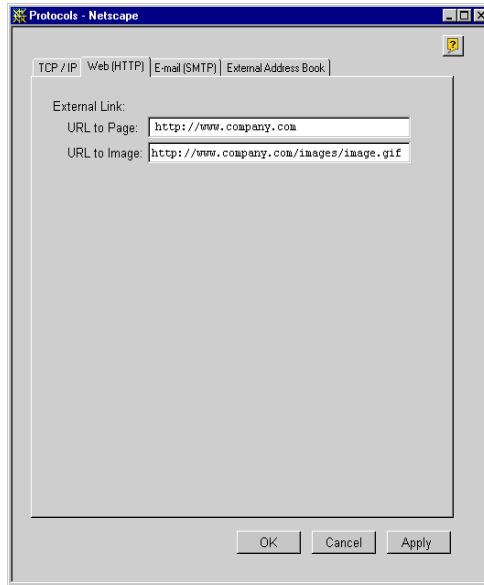
3. Enter the IP address of your Document Server, e.g. 172.16.253.80

Notes:

- If the IP address is changed, you must re-establish the HTTP communication using the new address.
- You can also set the IP address from the Document Server control panel. Refer to "Assigning an IP Address" on page 24.

4. Enter the IP address for the **Default Router**. All traffic directed outside the local network (according to the subnet mask) is sent to the default router. Any re-routing via other routers is done automatically. The setting 0.0.0.0 indicates that no default router is set.
5. Specify the **Subnet Mask** used for determining when the traffic should be sent via a router. This number combined with the IP address identifies on which network the Document Server is located. For example, the normal class C mask is 255.255.255.0. The setting 0.0.0.0 indicates that automatic router sensing is used.
6. Specify the **Domain Name** used by the Document Server for identification on the DNS server.
7. Specify the IP address of the **Primary DNS Server**. DNS (Domain Name System) servers are used for identifying computers with names instead of IP Addresses.
8. Specify the IP address of the **Secondary DNS Server** that will be used in case the primary DNS server is disconnected or unavailable.
9. Check this box to enable **WINS** (Windows Internet Name Service) over TCP/IP. WINS allows Windows-based clients to locate NetBIOS resources on TCP/IP networks. WINS is disabled by default.
10. Specify the IP address of the **Primary WINS** server.
11. Optionally specify the IP address of a **Secondary WINS** server. The secondary WINS server will be used in case the primary WINS server is disconnected or unavailable.

Web (HTTP) Select Web(HTTP) to add a customized link to the Document Server Home Page:



- **URL to Page:** Useful for establishing guidelines and rules of usage for the Document Server. The full path must be specified, e.g.
`http://www.company.com`
- **URL to Image:** Link to an image used as a customized link. Specify the full path; for example:
`http://www.company.com/images/image.gif`, or the path relative to the URL of the page, e.g. `images/image.gif`.

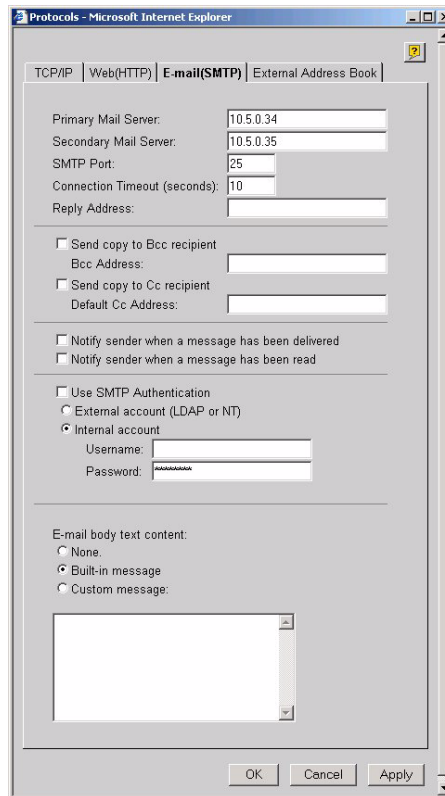
Note:

Note that the width of the image can not exceed 117 pixels. Leave blank to use a standard button.

E-mail (SMTP) The Network settings for the e-mail (SMTP) protocols must be specified by the Administrator before the Document Server can be used for distributing reproduced documents on the network.

Follow the instructions below to configure the e-mail (SMTP) protocol.

1. From the Protocols dialog, click the E-mail (SMTP) tag.



2. Specify the name or IP address of the **Primary Mail Server** that provides the e-mail facilities, e.g. mail or mail.domain.com or an IP address.
3. Optionally, specify the name or IP address of the **Secondary Mail Server**. The secondary mail server is only used if the primary mail server is disconnected or unavailable.
4. In the **SMTP Port** field, specify the number of the TCP/IP port.
5. Define the **Connection Timeout** period, i.e. how long the Document Server is to wait before timing out when connecting to the e-mail (SMTP) server. This must be greater than 5 but no more than 65535 seconds.
6. In the **Reply Address** field, specify the e-mail address that is to feature as the *default sender* when sending to e-mail destinations.

7. Check the **Send copy to Bcc recipient** checkbox to enable the option to send a blind carbon copy (Bcc) of an e-mail. Specify the default e-mail address of the recipient in the Bcc Address field.
8. Check the **Send copy to Cc recipient** checkbox to enable the option to send a copy (Cc) of an e-mail. Specify the default e-mail address of the recipient in the Cc Address field.
9. Check **Notify sender when a message has been delivered** to enable the option to send an e-mail to the default reply address to notify the sender that the message has been delivered.
10. Check **Notify sender when a message has been read** to enable the option to send an e-mail to the default reply address to notify the sender that the message has been opened/read.

Notes:

- **Notify sender when a message has been delivered** requires that your mail server supports extended SMTP and DSN (Delivery Status Notifications).
- **Notify sender when a message has been read** requires that the recipient's e-mail client supports MDN (Message Disposition Notifications). Also, the recipient can discard the request without notifying the sender.

11. Check **SMTP authentication** to enable authentication for SMTP server access. Choose whether to retrieve user identification from an external account (LDAP or NT) or an internal account by entering a unique Username and Password in the Internal account fields. For more information on authentication, see "*Specifying Authentication Settings*" on page 55.
12. E-mail body text content - Select **Built-in message** to include the following message (in the selected control panel language) in each e-mail sent from the Document Server:
"The attached document was sent to you using an Document Server Document Server. Please visit www.axis.com for more information"
Select **Custom message** and enter a customized message (200 characters maximum and no line breaks allowed) in the text field. This message will be included in each e-mail sent from the Document Server.
Select **None** to disable this option.

Notes:

- The user can specify another sender at the moment of scanning. This, however, does not apply if the administrator has enabled Authentication or if the *Specify the sender of scanned documents* option is not selected (see the admin|Edit|User Options tab)
- Make sure that your Document Server has a valid SMTP reply address to avoid rejection by spam filters.
- To be able to receive mail from the Document Server you may need to configure the IP address or host name of the Document Server in the mail server.

External Address Book

A Destination Address Book can be retrieved from an LDAP (Lightweight Directory Access Protocol) server or from a specified file on an FTP server. Alternatively, you can choose not to retrieve an address book.

Follow the instructions below to configure the External Address Book:

1. From the Protocols dialog, click the External Address Book tag.

Notes:

- The external e-mail addresses will appear in alphabetical order together with existing destinations in the destination list on the Document Server message display.
- The event log will show the amount of e-mail addresses retrieved using LDAP or FTP.
- For an example, create a destination with the selected transfer method and check the config.ini file.

Your options are:

Product	Parameter	Options	Description
AXIS 70/70U/7000	No External Address Book		Select this option if you do not want to retrieve an External Address Book.
	External Address Book via LDAP (e-mail destinations only)		Select this option to retrieve an external address book from an LDAP (Lightweight Directory Access Protocol) server. For more information on LDAP, see " <i>LDAP</i> " on page 141. Check the Document Server Support Web for more information on the settings for your specific LDAP server.
		LDAP Server	Specify the name or IP Address of the LDAP server.
		Port Number	Specify the number of the TCP/IP port.
		User	Specify the name for logging on to the LDAP server, e.g. <i>cn=name, o=companyname, c=countrycode</i> . If left blank, no authorization will be attempted. If the contents in this field does not include a "=" or a comma, the string " <i>cn=</i> " is automatically added to the beginning of the contents. Password - Specify the password for logging on to the LDAP server. If the User field is left blank, this setting will be ignored. Confirm - Enter the password again to make sure it was spelled correctly
		Name Field	Specify the name of the field that contains the destination name.
		E-mail Field	Specify the name of the field that contains the e-mail address.
		Search Base	Specify where to begin the search, e.g. <i>o=companyname, c=countrycode</i> . There may be other required settings depending on the LDAP server. Refer to the user documentation of the LDAP server for more information.
AXIS 70/70U/7000		Filter	Specify an LDAP filter in order to reduce the length of the destination list. The filter can be a real LDAP filter, e.g. (<i>givenName=*</i>). You can also specify a list of conditions, e.g. <i>mail=adm*,telephoneNumber=+1 800*</i> . In this case, the Document Server will generate a real LDAP filter.
		Reload Interval	Specify how often the external addresses are reloaded. The value is specified in whole hours, and the default is 12 hours

AXIS 7000	External Address Book from a File (e-mail, printer and file destinations)		Select this option to read an external address book from a file on an FTP server.
		FTP Server	Specify the name or IP Address of the FTP server
		User	Specify the user name for logging on to the FTP server. If left blank, the User and Password specified on the Destination Default page will be used Password - Specify the password for logging on to the FTP server. If the User field is left blank, this setting will be ignored Confirm - Enter the password again to make sure it was spelled correctly
		Directory	Specify the directory on the FTP server where the file is stored. Example: /pub/axis7000/address If left blank, the root directory on the FTP server will be used
		File Name	Specify the name of the file

The file containing the destination information must be a text file using the following syntax:

```

Destination-<destination name>]

Description=<destination name>
Transfer method=Scan-to-e-mail (SMTP)/
Scan-to-URL (SMTP & FTP)/
Scan-to-file (FTP)
Scan-to-print (LPD)
Scan-to-print (TCP)
Destination=<e-mail address>/<directory>/<queue>/<port>
Information level =Nothing/Basic/Complete
Profile =<profile>
Server=<ftp server>/<LPD server>/<printer>
User=<user name>
Password=<password>
File name=<file name>
Index file=Yes/No
Resolutions=<A subset of: 75 100 150 200 300 600 1200>
Paper sizes=<A subset of: Executive Letter
Legal Ledger A4 A3>
Duplex supported= Yes/No
Duplex selection=SingleSided/DoubleSided/AsScanned
LPD mode=SingleDataFile/SplitSourceFile/
BufferDataFiles/MultipleDataFiles

```

Specifying Authentication Settings

Authentication makes it possible for the administrator to allow access to the Document Server for authenticated users only. Click the **Edit** button on the **This Document Server** page and then click the **Authentication** tag to modify the authentication parameters.

The screenshot shows the 'Authentication' tab of the 'AXIS 7000 - Edit' configuration page. The 'Authentication method' section has three radio buttons: 'None' (selected), 'LDAP server authentication', and 'Windows NT Server authentication'. Under 'LDAP server authentication', there are text boxes for 'LDAP Server' (cluster01.axis.se), 'Port Number' (389), 'Base DN', 'User ID Field' (uid), 'Search Base', 'Name Field' (cn), and 'E-Mail Field' (mail). There is an unchecked checkbox for 'Substring search'. Under 'Windows NT Server authentication', there are text boxes for 'Server Name' (AXIS00000) and 'Domain'. A 'Change...' button is located below the 'Server Name' and 'Domain' fields. At the bottom, there is a 'Time before logout (seconds)' text box with the value '15', a checked checkbox for 'Authenticated only when email address is retrieved', and a note: 'This field is required and must be filled in.' The dialog box has 'OK', 'Cancel', and 'Apply' buttons at the bottom right.

1. Click one of the radio buttons to disable/enable authentication:
 - **None** - disables authentication (disabled by default)
 - **LDAP server authentication (AXIS 7000 only)**- enables authentication by this method. Specify the parameter settings as described in "*LDAP Server Authentication*" on page 56.
 - **Windows NT Server authentication (Document Server)**- enables authentication by this method. Click **Change** to access the parameter settings dialog as described in "*Windows NT Server authentication*" on page 56.
2. Click **Apply** to save your changes, then click **OK** to return to the **This Document Server** page.
If you want to return to the **This Document Server** page without saving your changes click **Cancel**.

Note:

The SMTP authentication method is also available, refer to "*Specifying Network Settings*" on page 43 for information on how to configure the Document Server to use this method.

LDAP Server
Authentication

Parameter	Description
LDAP Server	Specify the name or IP Address of the LDAP server
Port Number	Specify the number of the TCP/IP port used by the LDAP server
Base DN	Specify the Base Descriptive Name to use when binding to the LDAP server, e.g. ou=people, o=company name
User ID Field	Specify the User ID field that contains the user ID / user name of the authenticated user, e.g. uid, userid=johnsmith
Search Base	Specify where to begin the search, e.g. ou=people, o=company name
Name Field	Specify the name of the field that contains the destination name, e.g. cn, commonname=full name
E-mail Field	Specify the name of the field that contains the e-mail address, e.g. mail=email address
Substring search	Specify whether the AXIS 7000 is to search for the e-mail address and common name attribute using a 'substring' search or an 'equal' search. For more information on LDAP search options, see your LDAP server manual.

Windows NT Server
authentication

Parameter	Description
Server Name	Specify the name of the AXIS 7000 to be added in the Windows NT domain.

Domain	Specify the name of the domain where the AXIS 7000 belongs.
Create a Computer Account in the Domain	Add the AXIS 7000 to the domain. Check this box to create the account via this interface or use the Server Manager tool on a Windows NT server.
Username & Password	Specify the username and password of the NT administrator.





Note:

Treat the added computer name as a security element. Before your AXIS 7000 has joined the domain, it is possible for a user to add a different computer to your computer name and have it join the domain using the computer account you have just created for your AXIS 7000.

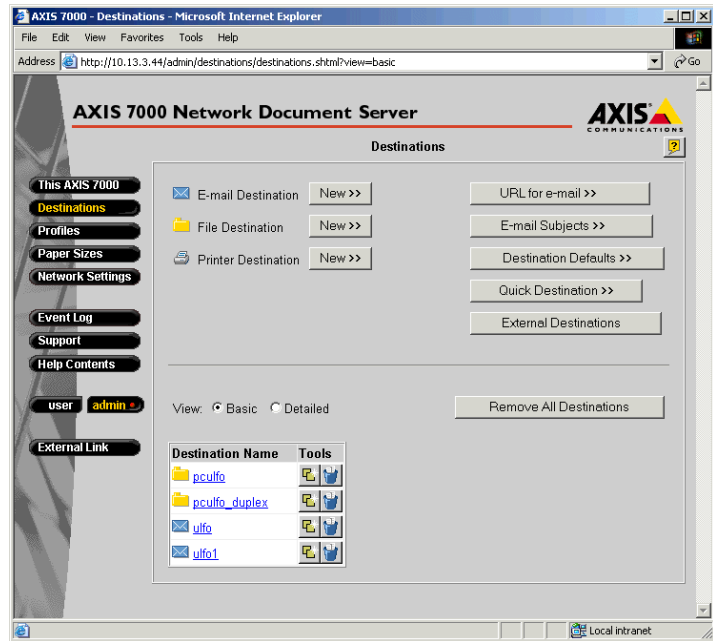
For more information see the Windows NT Help pages on creating a computer account.

Specifying Destinations

A destination is used when sending scanned images from the Document Server control panel and is defined as one of the following:

	an e-mail address	AXIS 70/70U/7000
	a file on an FTP server referenced by a URL	AXIS 7000 only
	a file on an FTP server	AXIS 7000 only
	a printer	AXIS 7000 only

Click Destinations from the admin page to display the Destinations page:



From the Destinations page you can:

- list currently available e-mail, file and printer destinations
- edit and create new destinations
- create copies of existing destinations
- selectively delete destinations
- set a Quick Destination which is a specific permanent destination to be accessible through the F9 key on the keyboard

Services Overview

The table below provides an overview of the information and services provided by each button on this page

Product	Button
Document Server	E-mail Destination New >> Creates a new e-mail destination.

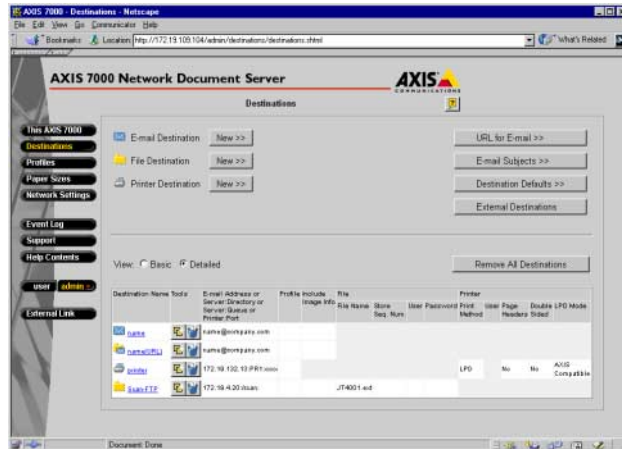
Product	Button
<p>AXIS 7000</p>	<p>File Destination New >> Creates a new file destination.</p>
	<p>Printer Destination New >> Creates a new printer destination.</p>
	<p>URL for E-mail >> Defines the storage location for images sent as hyperlinks to e-mail destinations.</p>
<p>AXIS 70/70U/7000</p>	<p>E-mail Subjects >> Specifies the text to be displayed in the subject field when sending to e-mail destinations. <i>Note: US ASCII characters only.</i></p>
	<p>Destination Defaults >> Displays the default parameters for each destination, e.g. the associated profile for a particular destination, the transfer type, etc. <i>Note: Editing the default settings causes all destinations using the default value to be changed automatically.</i></p>
	<p>Quick Destination Enter specific permanent destinations to be accessible through the F9 key on the keyboard</p>
	<p>External Destinations Displays the external destinations. Destinations are displayed using the same syntax as an external address book stored on an FTP server (see Network Settings Detailed View)</p>
	<p>Remove All Destinations Deletes all destinations from table.</p>

Creating and Editing E-mail Destinations

E-mail destinations allow the users to send scanned images to e-mail addresses using the SMTP protocol.

Follow the instructions below to create new or edit existing e-mail destinations.

1. Click Destinations.
2. Previously added e-mail, file and printer destinations are listed in the table. Click Detailed to view the detailed settings.



3. If you want to edit an existing destination in the displayed list, click the Destination Name link and proceed to step 5.
4. Click E-mail Destination New >> to add a new destination to the list.
5. Specify a descriptive name for the e-mail destination in the Destination Name field. This is the name that will appear in the destination list.
6. Specify the e-mail address of the recipient in the E-mail Address field. Multiple recipients must be separated by a comma (,) e.g. user1@company.com, user2@company.com
7. From the drop-down Profile list, select the profile to be used as the default for this destination.

Note:

The user can specify another profile from the Document Server control panel at the moment of scanning. <Default-xx> is the default value specified on the Destination Defaults page.

8. With reference to the table below, select the amount of information to be attached with the image:

Option	Description
<Default-xx>	Default value specified on the Destination Defaults page
<Complete>	Information about the connected scanner device, the parameter settings used when scanning etc.
<Basic>	Includes the image-related profile settings.
<None>	Does not include any information.

9. The e-mail can include the scanned image as an e-mail attachment, or a hyperlink (URL) to the original file. Click the appropriate radio button to determine how the scanned image should be sent.

Important!

When selecting a URL that points to a scanned image, you must specify the location for storing the scanned images. Click URL for E-mail to specify the directory where all such images will be stored.

10. To complete this task, do one of the following:


- To enter a new destination, click **Add to list**. Once your destination additions are complete, click **Done** to return to the Destinations page.
- To save an edited destination click **OK**

Notes:


- You can enter more than one e-mail destination. Separate the different entries with a comma (,) e.g. *user1@company.com, user2@company.com*
- You can also define an external e-mail address book on an LDAP server or destinations list on an FTP server. See "*External Address Book*" on page 52.
- Fax Servers that have e-mail gateways can also be used as destinations. For more information, see the support Web page at <http://www.axis.com>

Adding Permanent Destinations

The *Administrator* can permit users to add temporary e-mail destinations using the **New Destination** button on the **User|Destination** page. If this privilege is enabled, the five most recently added temporary destinations will appear at the top of the table on the **Destinations** page.


The *Administrator* can make these temporary destinations permanent simply by clicking the **Make Permanent**  button.

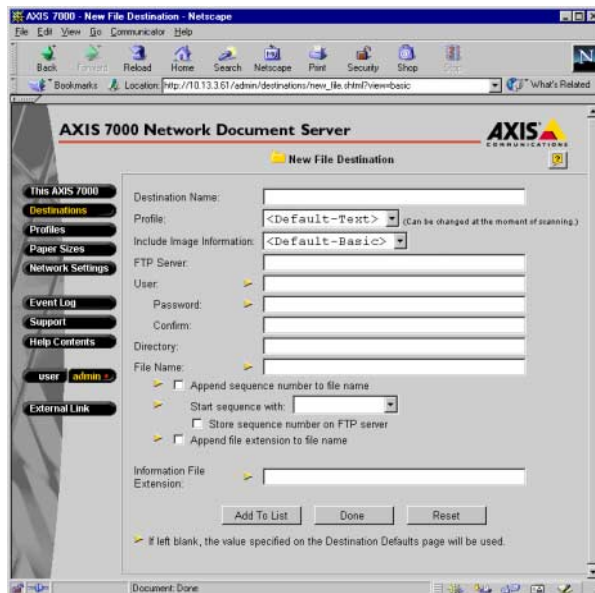
Creating and Editing File Destinations (AXIS 7000 only)

File destinations  allows the user to store scanned images in a directory on a file server using the FTP protocol.

Follow the instructions below to edit, copy or create a new file destination:

1. Click **Destinations**.

- If you want to edit an existing destination in the displayed list, click the **Destination Name** link and proceed to step 2.
- If you want to copy an existing destination and modify it, click  and proceed to step 2.
- Click **File Destination New >>** to add a new destination to the list.



The screenshot shows the 'New File Destination' configuration page in a Netscape browser window. The browser title is 'AXIS 7000 - New File Destination - Netscape' and the address bar shows 'http://10.13.3.61/admin/destinations/new_file.shtml?view=basic'. The page has a sidebar with navigation links: 'This AXIS 7000', 'Destinations', 'Profiles', 'Paper Sizes', 'Network Settings', 'Event Log', 'Support', 'Help Contents', 'user admin', and 'External Link'. The main content area is titled 'AXIS 7000 Network Document Server' and 'New File Destination'. It contains the following fields and options:

- Destination Name:** A text input field.
- Profile:** A dropdown menu with '<Default-Text>' selected. A note says '(Can be changed at the moment of scanning)'. There is a right-pointing arrow next to it.
- Include Image Information:** A dropdown menu with '<Default-Basic>' selected. There is a right-pointing arrow next to it.
- FTP Server:** A text input field.
- User:** A text input field with a right-pointing arrow.
- Password:** A text input field with a right-pointing arrow.
- Confirm:** A text input field with a right-pointing arrow.
- Directory:** A text input field with a right-pointing arrow.
- File Name:** A text input field with a right-pointing arrow.
- Append sequence number to file name
- Start sequence with: [dropdown menu]
- Store sequence number on FTP server
- Append file extension to file name
- Information File Extension:** A text input field with a right-pointing arrow.

At the bottom of the form are three buttons: 'Add To List', 'Done', and 'Reset'. A note at the bottom says '> If left blank, the value specified on the Destination Defaults page will be used.'

2. Specify a descriptive name for the file destination in the Destination Name field. This is the name that will appear in the destination list.
3. From the drop-down Profile list, select the profile to be used as default for this destination.

Note:

The user can specify another profile from the AXIS 7000 control panel at the moment of scanning. <Default-xx> is the default value specified on the Destination Defaults page.

4. With reference to the table below, select the amount of information to be included with the image:

Option	Description
<Default-xx>	Default value specified on the Destination Defaults page
<Complete>	Information about the AXIS 7000, the connected scanner device, the parameter settings used when scanning etc.
<Basic>	Includes the image-related profile settings
<None>	Does not include any information

5. Specify the name or IP address of the FTP server on which the scanned image will be stored in the FTP Server field.
6. Specify the user name for logging on to the FTP server in the User field.

Note:

Leaving the User field blank causes the user and password defined in the Destination Defaults page to be used.

7. If required, specify the password for logging on to the FTP server. Repeat the password in the Confirm field to check the spelling and syntax.

8. Specify the directory on the FTP server where the image will be stored.
9. Define the file name of the scanned image.

Note:

The filename defined in the Destination Defaults page is used if the Filename field is left blank.

10. With reference to "*Filename Sequence Numbers and Extensions*" on page 64, optionally combine the filename with a sequence number and/or a file extension, e.g.

<filename><sequencenumber>.<fileextension>

11. Specify the extension of the information file. If you do not specify an extension the default value will be used.
12. To complete this task do one of the following:
 - To save a new File Destination, click **Add to list**. Once your File Destination additions are complete, click **Done** to return to the Destinations page.
 - To save an edited File Destination or to save a copy of a File Destination, click **OK**.

Filename Sequence Numbers and Extensions

The filename defined within the **New File Destination/Edit File Destination** page can be appended with a sequence number and/or an extension. These numbers and extensions specify the file name and define which application is needed to automatically launch the appropriate image viewer, i.e. tif, jpg, or pdf.


Check the **Append Sequence number to file name** if you want to sequentially save a series of image files. This causes a new image file to be stored every time a user scans to the specified destination. For example, if you select 01 as the sequence number from the drop-down list, the first time you scan an image to the specified destination, the file will be saved as `filename00`. The next time the file will be saved as `filename01, ... etc.`

For a directory with many files, performance increases if you store the sequence number on the FTP server. However, to do that, the AXIS 7000 must be permitted to overwrite/delete files in the specified directory.

The table below summarizes the available sequence numbers and extensions:

Option	Description
Append sequence number to file name	Adds a unique sequence number to the file name.
Start sequence with:	Selects the sequence number to be appended to the first image scanned to this destination. For example, if you choose 01, the first image will be called <filename>00, the second will be called <filename>01, etc.
Store sequence number on FTP server:	Check this box to store the sequence number on the FTP server. For a directory with many files, performance will increase. However, the specified user must have change and delete access rights to the specified directory on the FTP server.
Append file extension to file name:	Check this box to add the file extension to the file name, i.e. tif, jpg or pdf. The file extension will correspond to the profile used. It is needed for automatically launching the appropriate image viewer.
Information File Extension:	Specify an extension for the information file.

Creating and Editing New Printer Destinations

Printer destinations  allow users to send scanned or copied images to a PCL printer on the network, using either the Raw TCP or LPD printing method.

Raw TCP Printing

Follow the instructions below to edit or create a new TCP/IP printer destination:

1. Click **Destinations**.
2. If you want to edit an existing destination in the displayed list, click the **Destination Name** link and proceed to step 4.

3. Click Printer Destination New >> to display the New Printer Destination Page.

4. Enter a descriptive Destination Name for the printer.
5. Check the Raw TCP/IP radio button.
6. Type the IP Address or Host Name of the destination printer in the Printer field.
7. Specify the port number that the printer uses (normally 9100).
8. From the drop-down Profile list, select the profile to be used as the default for this destination.

Notes:

- The user can specify another profile from the AXIS 7000 control panel at the moment of scanning. <Default-xx> is the default value specified on the Destination Defaults page.
- Select the PCL image format as it is primarily for use with printer destinations.

9. Check the Include Page Header check box only if you want date, time, destination, sent by, and page number to appear on your printer output.

10. If the target printer supports double sided printing, check the **My Printer Supports Double Sided Printing** checkbox and define your printing preferences by clicking the associated radio buttons, namely: **Only Print Single Sided**, **Only Print Double Sided** or **Print As Scanned**.
11. Check the appropriate check boxes to define the supported resolutions and paper sizes for the target printer.
12. To complete this task do one of the following:
 - If you have added a new printer destination, click **Add to List**. After adding all of your required printers, click **Done**.
 - If you have edited or copied an existing printer destination, click **OK**.

LPD Printing Follow the instructions below to edit or create a new LPD printer destination:

1. Click **Destinations**.
2. If you want to edit an existing destination in the displayed list, click the **Destination Name** link and proceed to step 5.
3. Click **Printer Destination New >>** to display the **New Printer Destination Page**.
4. Enter a descriptive **Destination Name** for the printer.
5. Check the **LPD** radio button.
6. Type the **IP Address** or **Host Name** of the LPD server in the **Server** field.
7. In the **Print Queue** field, type the name of the target printer queue on the server. Optionally, enter a username to identify ownership of the print job.
8. Define the **LPD Mode** by clicking one of the adjacent radio buttons, namely, **Axis Compatible Print Server**, **Windows Queue**, **Unix Queue** or **Other**.

Notes:

- Click **Other** if your destination printer server is not Axis-compatible.
- Click the **Unix Queue** button only if you wish to distribute the file to a dedicated LPD server on your network.

9. From the drop-down Profile list, select the profile to be used as the default for this destination.

Note:

The user can specify another profile from the AXIS 7000 control panel at the moment of scanning. <Default-xx> is the default value specified on the Destination Defaults page.

10. Check the **Include Page Header** checkbox only if you want **date, time, destination, Sent By and Page Number** to appear on your printer output.
11. If the target printer supports double sided printing, check the **My printer supports double sided printing** checkbox and define your printing preferences by clicking the associated radio buttons, namely, **Only Print Single Sided, Only Print Double Sided** or **Print As Scanned**.
12. Define the supported resolutions and paper sizes for the target printer by checking the appropriate check boxes.
13. To complete this task do one of the following:
 - If you have added a new Printer Destination, click **Add to List**. After adding all of your required printers, click **Done**.
 - If you have edited or copied an existing destination, click **OK**.

Specifying Profiles

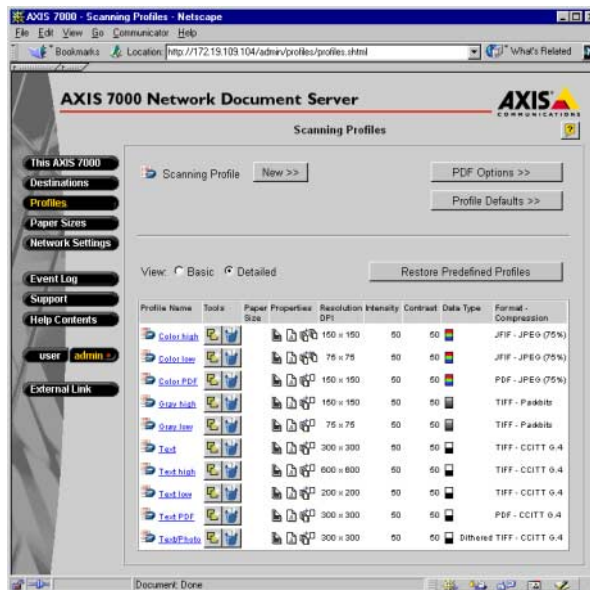
A profile defines the scanner device and image parameters to be used when scanning and is optionally part of the destination definition.

Note:

Although a profile is normally associated with a destination, the user can override that setting by choosing another profile from the AXIS 7000 control panel at the moment of scanning.

Click Profiles for:

- Viewing permanent and temporary profiles
- Viewing the parameter settings
- Editing a profile
- Making temporary profiles permanent
- Creating copies of an existing profiles
- Selectively deleting profiles
- Setting Profile defaults




Services Overview

The table below provides an overview of the information and services provided by each button on this page

Button	Description
Profile New>>	Allows an administrator to create a new profile. See Creating new profiles below.
PDF Options>>	Enables the user to insert the document in the same orientation as when copying on a digital copier i.e. long-edge first.
Profile Defaults>>	Allows the administrator to set the default paper size to be used for all profiles using the default.
Image enhancement>>	The image enhancement options will be available, if supported by the connected scanner device . Image enhancement is used to create a profile to capture text on poor quality originals or to capture text on a dark background.
Restore Predefined Profiles	<p>The AXIS 7000 includes a number of predefined general purpose profiles. Clicking this button restores the predefined profiles. See Predefined Profiles below for details.</p> <p><i>Note: all user-defined profiles are lost if you restore the predefined profiles. This does not apply to Default Paper Size which must be set manually from admin Profiles.</i></p>

Creating and Editing Profiles

Follow the instructions below to edit the existing profiles or create new profiles for specific document types such as invoices, mailings etc.

Click  to create a copy of an existing profile. You can edit the settings to create a new profile based on existing settings.

Notes:

- When you have selected a new language you must go to the **Profiles** page and click **Restore Predefined Profiles** to change the language in the Profiles list. It is recommended that you select your preferred language before defining and modifying paper sizes and profiles.
Note: All user-defined profiles (except the set default paper size) and modifications to predefined profiles will be lost when you click Restore Predefined Profiles.
- The Document Server will display an error message if the selected settings combination is not valid as some combinations of settings are incompatible.

1. Click **Profiles**.
2. The previously added profiles are listed in the table. The Profile Name is the text that appears in the profile list on the Document Server interface. If you want to edit an existing profile, click the **Profile Name** link and proceed to step 4.
3. Click **Profile New >>** to add a new profile to the list.
4. In accordance with the information provided in the Profiles Parameters table ("*Profiles Parameters AXIS 7000*" on page 73), define all of the parameters featured in the **New Profile/Edit Profile** page.
5. To complete this task do one of the following:
 - If you have added a new profile, click **Add To List**. Once your profile additions are complete, click **Done**.
 - Click **Reset** only if you wish to clear the current profile settings.
 - If you have edited or copied an existing profile, click **OK**.
6. Click **Scan** to scan the material currently placed in the scanner device using the current profile settings. Depending on the image format used, the Web browser will either display the image or ask you to save the file.

Profiles Parameters
AXIS 70/70U

Parameter	Options	Instructions
Profile Name		Specify a descriptive name for the profile. This is the name that will appear in the profile list.

Parameter	Options	Instructions
Paper Size	<ul style="list-style-type: none"> • A4, A5, B5, B5(JIS) • Legal • Letter (default) • Photo 	Select the paper size from the drop-down dialog box.
Paper Orientation	<ul style="list-style-type: none"> • Portrait: top along the short edge • Landscape: top along the long edge 	Click the appropriate radio button to specify your chosen orientation.
Resolution	-	Specify the resolution to be used for scanning for X and Y respectively, in dots per inch (DPI).
Intensity	0 - 100 (%)	Enter the level of intensity as a percentage ratio
Contrast	0 - 100 (%)	Enter the level of contrast as a percentage ratio.
Data Type	<ul style="list-style-type: none"> • Black and White • Grayscale • Color 	Select the appropriate data type
Color Quality Level	0 - 100 (%)	Select the Color quality level for the Color formats.

Note:

- **High-resolution settings** produce higher-quality scanning. However, your documents might take longer to scan. The resolutions used when scanning depend on your scanner's capabilities
- **JPEG Quality Level** - An image compressed using a higher quality will be less compressed, thus taking up more disk space than an image compressed using a lower quality level. Using 75% JPEG quality level, you will not normally notice any difference from the original image
- **Contrast** is the tonal gradation between the highlights, mid-tones and shadows in an image

Profiles Parameters
 AXIS 7000

Parameter	Options	Instructions
Profile Name		Specify a descriptive name for the profile. This is the name that will appear in the profile list.
Paper Size	<ul style="list-style-type: none"> A3, A4, A5, B4, B4 (JIS), B5, B5 (JIS) Business card Executive Ledger Legal Letter (default) Photo 3.5 x 5" Photo 4 x 6" 	<p>Select the paper size from the drop-down dialog box.</p> <p><i>Note: Change the default paper size on admin Profile Profile Defaults. If you perform Restore Predefined Profiles the set default Paper Size will not be changed back to Letter</i></p>
Duplex Scanning	<ul style="list-style-type: none"> Single sided Double sided 	Click the appropriate radio button to specify if the scanner device is to scan the document on both sides of the paper.
Paper Orientation	<ul style="list-style-type: none"> Portrait: top along the short edge Landscape: top along the long edge 	Click the appropriate radio button to specify your chosen orientation.
Multipage Documents	<ul style="list-style-type: none"> All pages in one file Separate file for each page 	Click the appropriate radio button to select whether multipage documents should be saved in one or several files
Resolution	-	Specify the resolution to be used for scanning for X and Y respectively, in dots per inch (DPI).
Intensity	0 - 100 (%)	Enter the level of intensity as a percentage ratio
Contrast	0 - 100 (%)	Enter the level of contrast as a percentage ratio.

Parameter	Options	Instructions
Data Type	<ul style="list-style-type: none"> • Black and White • Grayscale • Color 	Select the appropriate data type
Format - Compression	<ul style="list-style-type: none"> • TIFF - No compression • TIFF - CCITT G.3 - one dim • TIFF - CCITT G.3 - two dim • TIFF - CCITT G.4 • TIFF - Packbits • PDF - No compression • PDF - CCITT G.3 - one dim • PDF - CCITT G.3 - two dim • PDF - CCITT G.4 • PDF - Packbits • PDF - JPEG • PCL - PCL5 • JFIF - JPEG 	<p>Choose your combination of image format and compression from the methods displayed in the drop-down dialog.</p> <p><i>Note: The format compression choices within the drop down list will vary dependent upon the selected Data Type. See "Guidelines for Format and Compression" on page 76. for further information on each of the available techniques.</i></p>
Dithering Method (b/w only)	<p>Select the dithering method for black/white images from the drop-down dialog.</p> <ul style="list-style-type: none"> • None (recommended for text) • Dithered (recommended for photos) <i>Converts pixels with gray values above the middle gray level to white, and pixels with gray values below the middle gray level to black</i> • Error diffusion (also recommended for photos) Evaluates the gray-level value of each pixel and converts it to either a black or a white value. The amount of error is transferred to surrounding pixels before they are converted. In this way, the error is diffused throughout the image <p>Both of the available dithering methods result in a grainy, film like texture.</p>	
JPEG Quality Level	0 - 100 (%)	Define the JPEG quality level for the JFIF - JPEG and PDF - JPEG formats as a percentage

Notes:

- High-resolution settings produce higher-quality scanning. However, your documents might take longer to scan. The resolutions used when scanning depend on your scanner's capabilities
- Dithering - not all scanner devices support dithering
- Duplex scanning- not all scanner devices support duplex scanning
- TIFF viewers - not all TIFF viewers support multipage image files.
- JPEG Quality Level - An image compressed using a higher quality will be less compressed, thus taking up more disk space than an image compressed using a lower quality level. Using 75% JPEG quality level, you will not normally notice any difference from the original image
- Contrast is the tonal gradation between the highlights, mid-tones and shadows in an image

Predefined Profiles


The Document Server is pre-installed with standard profiles to cover most needs.

AXIS 70/70U

Name	Resolution	Type	Image format
Color PDF high	150	24-bit color	PDF - JPEG
Color PDF low	75	24-bit color	PDF - JPEG
Text PDF high	300	black/white	PDF - CCITT G.4
Text PDF low	150	black/white	PDF - CCITT G.4

AXIS 7000

Name	Resolution	Type	Image format
Color high	150	24-bit color	JPEG
Color low	75	24-bit color	JPEG
Color PDF	150	24-bit color	JPEG
Gray high	150	4-bit grayscale	TIFF/Packbits
Gray low	75	4-bit grayscale	TIFF/Packbits
Text	300	black/white	TIFF/CCITT G.4
Text high	600	black/white	TIFF/CCITT G.4
Text low	200	black/white	TIFF/CCITT G.4
Text PDF	300	black/white	TIFF/CCITT G.4
Text/Photo	300	black/white	TIFF/CCITT G.4

Temporary Profiles If the Administrator allows users to add temporary profiles, the five most recently added profiles will appear in the profiles list. The Administrator can make temporary profiles permanent by clicking the **Make Permanent**  button.

Guidelines for Format and Compression In editing or creating a new profile it is necessary to specify the format and compression techniques that are to be employed. The table below highlights the significant benefits of each method.

AXIS 70/70U

Format	Comments
PDF	For black/white, color and grayscale images. Both single- and multipage images are supported. Requires the Adobe Acrobat Reader.

Notes:

The generated PDF image files do not contain searchable text. You can use Adobe Capture or the built-in capture function in Adobe Acrobat to make the text searchable.

AXIS 7000

Format	Comments
TIFF	For black/white and grayscale images. Both single- and multipage images are supported.
JFIF	For color and grayscale images. Single page images only.
PDF	For black/white, color and grayscale images. Both single- and multipage images are supported. Requires the Adobe Acrobat Reader.
PCL	Profile used for print destinations - black and white only.

Notes:

AXIS 7000 only:

- Compression techniques are distinguished by whether they remove detail from the image. CCITT encoding is a family of lossless compression techniques for black/white images, of which CCIT G.4 is the most efficient compression method.
- JPEG is a "lossy" compression technique that effectively reduces file size by identifying and discarding extra data not essential to the display of the image.
- If you intend to manipulate a color image using an image editor, you are recommended to use uncompressed TIFF.
- Although the generated TIFF files do not contain searchable text, you can use an Optical Character Recognition (OCR) application to convert the bitmap to text that can be edited, indexed, searched or copied to other files.

Image
Enhancement
AXIS 7000 only

If supported by the connected scanner device, the image enhancement options will be available from the Profiles page. Image enhancement (IPC) is used to create a profile to capture text on poor quality originals or to capture text on a dark background.

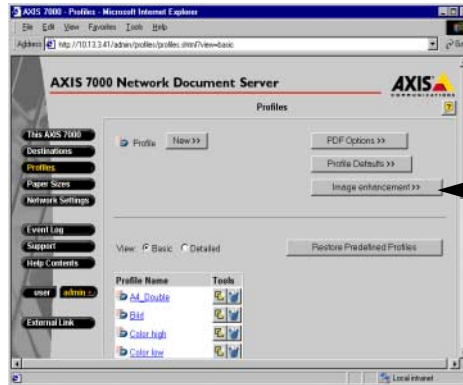
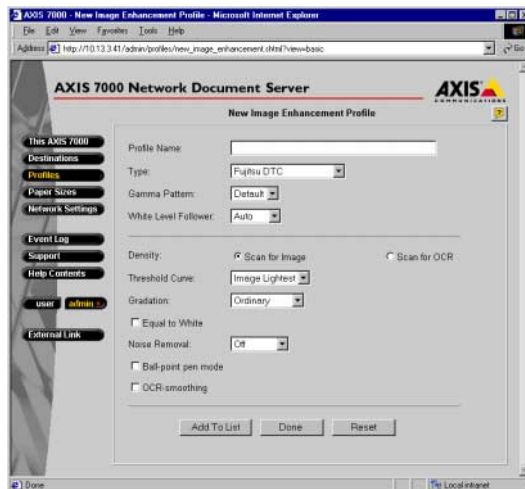


Image
Enhancement

1. Click Image Enhancement>>
2. The previously added image enhancement profiles are listed in the table. The Profile Name is the text that appears in the profile list on the Document Server interface. If you want to edit an existing profile, click the Profile Name link and proceed to step 4.
3. Click Profile New >> to add a new image enhancement profile to the list.



4. **Profile Name** - Specify a descriptive and unique name for the profile. This is the name that will appear in the profiles list.
5. **Type** - Select the image enhancement type that is compatible with your device driver. See the table "*Image Enhancement Types*" on page 78 for information on the available settings for each image enhancement type.
6. To complete this task do one of the following:
 - If you have added a new profile, click **Add To List**. Once your profile additions are complete, click **Done**.
 - Click **Reset** only if you wish to clear the current profile settings.
 - If you have edited or copied an existing profile, click **OK**.

Image Enhancement Types

Select the image type that is compatible with your device driver. The available image enhancement types are **Fujitsu DTC**, **Fujitsu IPC** and **Fujitsu Static Threshold**. Each type has a specific set of optional settings. Refer to the table below for a list of the available options in each type:

Type	Options
Fujitsu DTC	<ul style="list-style-type: none"> • Gamma Pattern - Gamma correction patterns are used to extend the availability of the built-in functions. See the manual of the scanner or device driver for more information. • White Level Follower - used to scan a document with a colored background. • Density - defines the level of smoothing as follows: Scan for image - less smoothing but includes noise reduction. Scan for OCR - extensive smoothing without noise reduction. • Threshold curve - select Image lightest if the scanned image is too dark or Image darkest if the scanned image is too bright. • Gradation - select High Contrast for scanning documents with a dark background color. • Equal to White - click the checkbox to reduce the output of e.g. bold text. • Noise Removal - removes stray dots from the background to reduce unwanted 'noise' from the scanned image. Select 5*5 Matrix to remove all isolated dots. • Ball-point pen mode - texts written in ball-point pen have two lines per stroke. This filter merges the two lines into one to make the text recognizable to OCR. • OCR smoothing - if an image is scanned in low resolution, select OCR smoothing to reduce jagged edges.
Fujitsu IPC	<ul style="list-style-type: none"> • Gamma Pattern - Gamma correction patterns are used to extend the availability of the built-in functions. See the manual of the scanner or device driver for more information • White Level Follower -used to scan a document with a colored background. • Emphasis - emphasizes image edges but also emphasizes background noise (low, medium, high) • Outline Extraction - extracts the edges from images and is used for image effects and image sensing. • Mirror - used to reverse the image. • Simplified DTC - effective for scanning images or text on colored backgrounds. Similar to emphasis but does not emphasize background noise. • Automatic Separation - automatically dithers photos and digitizes texts in one scanning. Useful for scanning documents containing both text and photos.

Type	Options
Fujitsu Static Threshold	<ul style="list-style-type: none">• Gamma Pattern - Gamma correction patterns are used to extend the availability of the built-in functions. See the manual of the scanner or device driver for more information• White Level Follower - used to scan a document with a colored background.• Emphasis - emphasizes image edges but also background noise (low, medium, high)• Outline Extraction - extracts the edges from images and is used for image effects and image sensing.• Mirror - used to reverse the image.• Automatic Separation - automatically dithers photos and digitizes texts in one scanning. Useful for scanning documents containing both text and photos.

Specifying Paper Sizes

The **Paper Sizes** parameter defines the size of the scanned image and is optionally part of the profile.

Note:

A user can override the Paper Size setting used by a profile by choosing another paper size from the Document Server control panel at the moment of scanning.

Predefined
Paper Sizes

The Document Server includes predefined standard paper sizes to cover most needs. This tables below lists the predefined paper sizes:

AXIS 70/70U

Name	Width(cm)	Length(cm)	Width (inches)	Length (inches)
A4	21.00	29.70	8.27"	11.69"
A5	14.80	21.00	5.83"	8.27"
B5	17.60	25.00	6.93"	9.84"
B5 (JIS)	18.20	25.70	7.17"	10.12"
Legal	21.59	35.56	8.50"	14.00"
Letter	21.59	27.94	8.50"	11.00"
Photo 3.5" x 5"	8.89	12.70	3.50"	5.00"
Photo 4" x 6"	10.16	15.24	4.00"	6.00"

AXIS 7000

Name	Width(cm)	Length(cm)	Width (inches)	Length (inches)
A3	29.70	42.00	11.69"	16.54"
A4	21.00	29.70	8.27"	11.69"
A5	14.80	21.00	5.83"	8.27"
B4	25.00	35.30	9.84"	13.90"
B4 (JIS)	25.70	36.40	10.12"	14.33"
B5	17.60	25.00	6.93"	9.84"
B5 (JIS)	18.20	25.70	7.17"	10.12"
Business Card	5.50	9.50	2.17"	3.74"
Executive	18.41	26.67	7.25"	10.50"
Ledger	27.94	43.18	11.00"	17.00"
Legal	21.59	35.56	8.50"	14.00"
Letter	21.59	27.94	8.50"	11.00"
Photo 3.5" x 5"	8.89	12.70	3.50"	5.00"
Photo 4" x 6"	10.16	15.24	4.00"	6.00"


(AXIS 7000 only) Follow the instructions below to optionally edit any of the predefined paper sizes listed above, or create new ones to suit your specific needs:

Note:

When a new language is selected you must go to the **Paper Sizes** page and click **Restore Predefined Paper Sizes** to change the language in the Paper sizes list. It is recommended that you select your preferred language before defining and modifying paper sizes and profiles.

Note: All user-defined profiles and modifications to predefined paper sizes will be lost when you click Restore Predefined Paper Sizes.

1. Click **Paper Sizes** to specify paper sizes. To edit a paper size in the list, click the **Paper Size Name** link. To create a new paper size, click **Paper Size New >>**.

Click  to create a copy of an existing paper size. You can edit the settings to create a new paper size based on existing settings.

Note:

Paper sizes longer than A3 can be set for some supported scanners (AXIS 7000 only). Check the documentation of your scanner for more information.

2. From the **New Paper Size** page you can create a new paper size. Enter a descriptive name, width and length for the paper size.
3. If you need to restore the predefined paper sizes, click **Restore Predefined Paper Sizes**. Note that all your current paper sizes will be lost.

PDF Rotation

The **PDF rotation** functionality allows you to scan a document and rotate it from **portrait** to **landscape** and vice versa. This option only affects the PDF output format on digital copiers. It cannot be changed at the moment of scanning.

Example:

When using Legal sized paper in a digital copier, you have to feed the document short-edge first. The document will appear on the screen in the wrong page orientation. By enabling the **PDF Rotation** option, the document will be rotated and the document will appear on the screen in the correct orientation.

Note:

PDF rotation and TIFF rotation are automatic for scanners with an RADF (Reversing Automatic Document Feeder). However, the image viewer must also support rotated images. See the documentation supplied with your image viewer for more information.

Configuring Using a Text Editor and FTP

The Document Server configuration file includes all the system parameter settings regarding network protocols, profiles, paper sizes and destinations.

As an alternative to Web-based configuration, you can edit the configuration file directly using a text editor and upload the file to the Document Server using FTP.

Note:

To access the Document Server configuration file, you must first set the IP address as described in "Assigning an IP Address" on page 24.

Follow these instructions to edit the configuration file using FTP:

Caution

Windows 95 has a directory called 'config' that contains important system files. It is important to change to another directory using the `cd` command before modifying your Document Server configuration file from within a windows 95 environment. Failure to do this may result in some of your files being overwritten

1. In a DOS or UNIX window, type `ftp <Internet address>`, where `<Internet address>` is the name or IP address of your Document Server.
2. Login using the user id `root` and the password `pass`.

Note:

The password might have been changed. This is done by the Administrator from the **admin | Edit | General** page

3. Type `get config.ini` to download the configuration file to your current directory.

4. Edit the file using your preferred text editor. In Windows 95 and Windows NT environments, you can for example use Notepad.

Note:

Do not use MS Word or other similar word processor.

5. Type `put config.ini` to download the file to the Document Server and save it permanently.
6. To exit FTP, type the command `quit`, `bye`, or `exit`.

Notes:

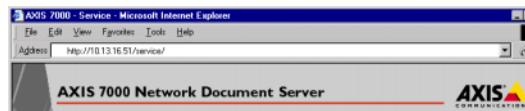
- The configuration file can be used as a template when configuring multiple document servers.
- It is sufficient to download the configuration parameters that have changed. The other parameter settings will remain unchanged.
- All parameter settings apart from the IP address, Gateway and Subnet mask can be changed using FTP. Please refer to "*The Parameter List*" on page 152.
- If you upload the config.ini file the passwords will be represented by '*****'. These ***** must be changed to the actual password before downloading the config.ini file to an Document Server. The passwords can also be changed via the web interface after downloading the config.ini file.

Scan Counter (AXIS 7000 only)

The Counter functionality enables the authorized administrator or service user to monitor the use of the scanner device. To access the Service pages, follow these instructions:

1. Type 'service' after the internet address of the AXIS 7000 in the location/address field of your web browser and click Enter.

For example: <http://123.123.123.123/service>

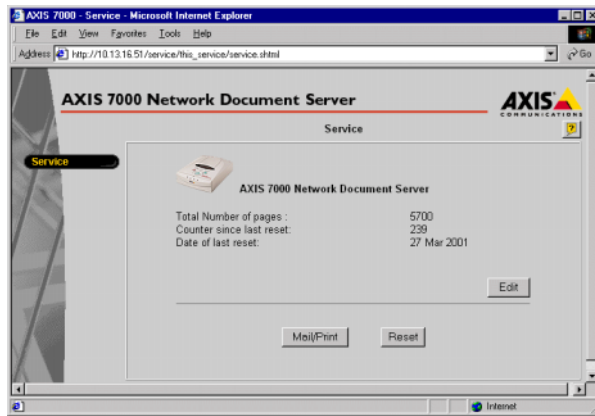


2. You will be prompted to enter User Name and Password. At the prompt, log on as *service* and use the default password *service*.

Note:

We strongly recommend that the default password is changed by the Service user to prevent unauthorized access to the Service page and counter settings.

3. The Service page presents general information about the counter functionality:



Service Page Overview

Total number of pages - counts the total number of pages scanned and sent using the AXIS 7000. This counter cannot be reset.

Counter since last reset - counts the number of pages scanned since the counter was last reset.

Date of last reset - the date the counter was last reset.

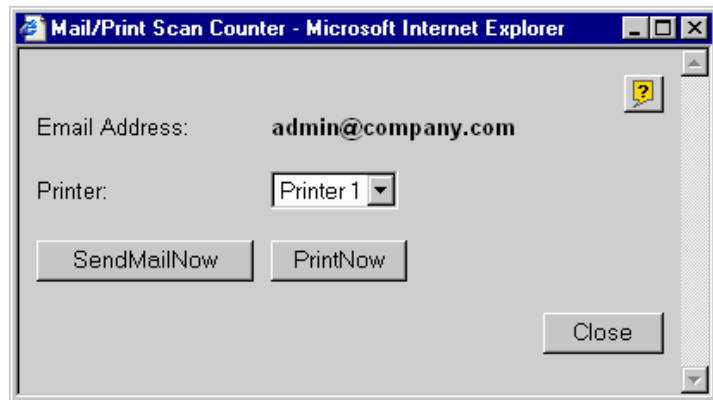
1. Click **Edit** to access the pages where you can:

- Change the password
- Specify the e-mail address destination for the counter statistics report
- Click the checkbox (default) if the counter is to be increased only if the scanning is successful. If the check box is empty, all started scanning jobs will be counted

Click **Apply** to save your changes without closing the dialog box or click **OK** to save your changes and close the dialog box.

2. Click the **Mail/Print** button to access the page where you can:
 - Click **SendMailNow** to send a scan counter report to the specified e-mail destination
 - Select a printer from the printer drop-down list and click **PrintNow** to print a scan counter report to the selected printer.
 - Click **Close** to close the dialog box
3. Click **Reset** to reset the counter

Mail/Print Scan Counter To send a scan counter report, go to **admin | Support** and click the **Scan Counter** link. The following dialog will appear:



Do one of the following depending on whether you wish to send the report to the specified e-mail destination or to a printer.

- Click **SendMailNow** to send the counter report to the specified e-mail destination
- Select a printer from the printer drop-down list and click **PrintNow**

Note:

The e-mail address is set by the authorized service user on the service page. See "*Service Page Overview*" on page 85 for details.

The printers are added from **Destinations | Printer Destination New>>**

- Scan Counter Report
- The scan counter report contains the following information:
- General information i.e. date, host name, host address and connected scanner
 - Counter information i.e. total number of pages scanned, number of pages scanned since last reset and date of last reset

Using the Document Server

This section describes how to use the Document Server and includes the following information, given from the perspective of a *user*:

Note:

The information in this manual applies to all Axis Document Server models unless otherwise stated.

- Sending methods
- Sending to destinations
- Sending multiple pages
- Adding temporary destinations and profiles
- Sending to the Web browser
- Viewing image files

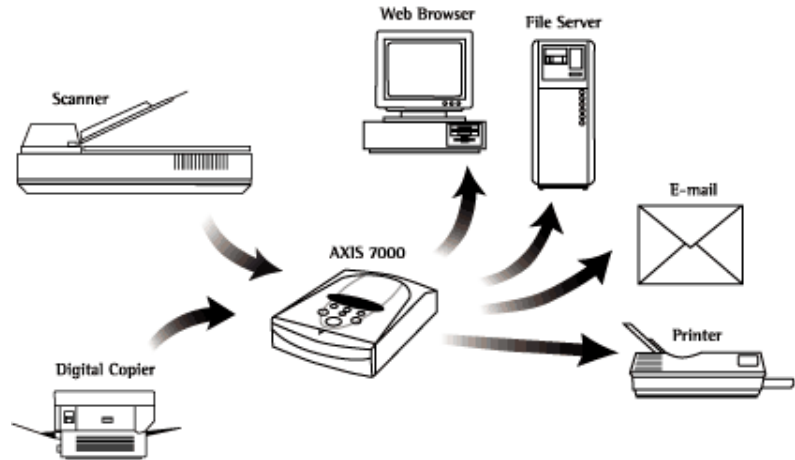
Note:

"Configuring the Document Server" is targeted specifically to users responsible for the administration of the Document Server. Please refer to this section if you wish to access the Document Server as an Administrator.

Sending Methods

The Document Server supports the following basic methods for distributing scanned and copied documents over the network:

- Send-to e-mail destinations (AXIS 70/70U/7000)
- Send-to-file destinations (AXIS 7000 only)
- Send-to-printer destinations (AXIS 7000 only)
- Send-to-URL (AXIS 7000 only)
- Send-to-Web browser (AXIS 7000 only)



The AXIS 7000 allows document information from network attached document distribution devices, such as scanners or digital copiers to be distributed to e-mail, file and printer destinations.

In addition to the resident profiles and destinations established by your Administrator, users can also create both temporary e-mail destinations and profiles, using either the Web-based user interface or user keyboard (if connected by your administrator).

Destinations Documents are typically distributed using the Document Server control panel or an attached PC compatible keyboard (if connected by your administrator), to selected e-mail, file or printer destinations.

Users can add temporary e-mail destinations using the Web interface or keyboard if the destination you wish to send your document to does not exist in the destination list.

Contact your Administrator if you wish to add a new file or printer destination, or add a permanent e-mail address.

(AXIS 7000 only) If there is a keyboard connected to the AXIS 7000, and if the option to **Specify a file name for a file destination** (admin|Edit|User Options) is enabled by the administrator, the user can enter a new file name for the file destination or e-mail destination.

Send-to-E-mail
AXIS 70/70U/7000

This allows document images to be distributed to any e-mail address defined in the destination list. This service is often referred to as Internet faxing.

E-mail transfer uses the Simple Mail Transfer Protocol (SMTP) whereby the document image is sent as a MIME-encoded e-mail attachment, or stored on a file server as an accessible hyperlink within an e-mail notification. Double-clicking the hyperlink or an e-mail attachment that is associated with an image viewer automatically starts the appropriate application.

Send-to-File
AXIS 7000

This means that the document image is sent to and then stored on a networked storage device. This could be on a server, a client with a shared drive, a mainframe, or any chosen network device available to your filing system. Image files are distributed and archived using the File Transfer Protocol (FTP) that facilitates the storage of files over the Internet.

Typically a file is sent to a specific software management application, for example groupware, document management and workflow systems.

Note:

Users can arrange to have their own directories on an FTP server to which they can send document image information. In operating systems like Windows 95/98 and Windows NT/2000, shortcuts to image directories can be placed directly on the user's desktop. This gives easy access to the document image information.

It is strongly recommended that you choose the send-to-print function for distributing documents to printer destinations. However, in some circumstances it may be desirable to send an image to a network printer using the send-to-file function instead. To do this, you must ensure that the destination printer supports FTP and PCL, or FTP and TIFF. Refer to the Axis web site for more information.

Send-to-URL
AXIS 7000

Sending to URL (Uniform Resource Locator) is a combination of send-to-e-mail and send-to-file, where images/documents are stored on a file server. The recipient will receive an e-mail containing the URL (Web link) to the file, instead of an e-mail attachment. This off-loads the mail server from handling large attachments.

Send-to-Web Browser
AXIS 7000

This is a convenient method for users that do not have an e-mail address. It is also useful if you want to try a number of different profiles.

Simply place the document in your scanner device and access the AXIS 7000 from a standard Web browser. Scanning is triggered directly from your Web browser and the image is saved within the Web browser dialog. The Web browser displays the image in an associated viewer or asks you to save the file, depending on the associated image format.

Send-to-Printer
AXIS 7000

This allows document images to be distributed to any printer defined in the AXIS 7000 destination list using either Raw TCP or LPD as printing method.

Raw TCP printing support means that you can distribute your document images across network segments to any TCP/IP printer connected on a local or remote network.

Authentication

If the administrator has enabled authentication, the user must enter a user name and password to gain access to the Document Server. If the authentication process is not enabled, proceed to the next section "*Sending to Destinations*" on page 92.

1. When the following display appears, enter your user name and press **Menu** (on the control panel) or **Tab** (on the keyboard).

User Name:

2. Enter your password and press **Menu** (on the control panel) or press **Tab** (on the keyboard):

Password:

3. If NT Authentication is enabled, the following prompt will appear:

Domain:
Default

4. The following message will appear:

```
Logi n i n progress
```

5. If the following message appears the authentication process has failed. Press **Cancel** (on the control panel) or press **Esc** (on the keyboard) to try again.

```
Logi n fai l ed!
```

6. If the authentication process is successful the following message is displayed informing you that you can log out by pressing **Cancel** for two seconds (on the control panel) or **Esc** (on the keyboard).

```
To l ogout press  
Cancel 2 sec.
```

7. To continue press any key or wait until the following message appears:

```
Send to:  
xxxxxx
```

Note:

If no destinations are set the display will show the **Add Address:** prompt.

Sending to Destinations



Note:

Before sending to an e-mail address or a file, the Administrator must have set up the destinations as described in "*Specifying Destinations*" on page 57.

Perform these instructions from the Document Server control panel:


1. The Document Server display shows "Send to: xxxxxx" when it is ready for use. For example:

Send to:
Accounting Dept

2. Use   scrolling keys to find your required destination from the list. Press and hold the key to autorepeat scrolling. If you want to add a temporary E-mail destination, refer to "Adding Temporary Destinations" on page 95.

Note:

If a keyboard is connected you can easily search the list by pressing the first letter of the required destination.

3. If you want to send the image to more than one destination, press Select  to choose each destination:

Send to: +1
Accounting Dept




Note:

When sending to a printer, the image can not be sent to another destination type and is only sent to one printer at a time.

4. Repeat steps 2 and 3, until all desired destinations are selected.

Note:

Be careful not to transmit images to an unwanted destination. The scanned image is always sent to the destination shown in the display, whether explicitly selected or not.


5. Optionally, press Menu  to change the default settings for scanning parameters. You can select temporary settings for profile, paper size and double-sided. Use   to select the desired value.

Note:




Press the **Cancel** button to reset all temporary settings to the default values.

6. Insert a single page into the flatbed or a stack of paper into the sheet feeder of the attached scanner device.

One single page or a stack of paper in the sheet feeder:

- a. Press Send  to scan and send the image to the destination in one step.

Several separate pages or stacks of paper:


- a. Press Add  to scan each page or stack.
- b. Insert the next page or stack and press Add  again. Repeat the procedure until all the pages have been scanned.
- c. Press Send  to transmit the image to the destination.

During the scanning this message appears on the display:

Scanni ng #1
pl ease wai t

Note:

If you do not press **Send** within 60 seconds after scanning a page by pressing **Add** the scan job will automatically be finished and sent.

7. When you have pressed Send  and the transfer of the document image is completed, the Document Server is released for other users to access.

Notes:

- If no operations are performed within five minutes of allocation, the Document Server will return to its default settings.
- The Document Server keeps all temporary settings in memory for 60 seconds from the last scan, and then resets all settings to the default settings.
Note: if authentication is enabled, the time span before memory reset is set by the administrator.

Multipage Image Files

By scanning multiple pages, you can accumulate several pages into one image file. Multipage documents are by default, collated and output into a single PDF or TIFF image file.

Deselect the **All pages in one file** parameter only if you want each page to appear separately in several PDF or TIFF files.

Notes:

- The JFIF format sends each page as one separate image file.
- The PCL format sends several pages in a single PCL file.
- Web browsers not supporting multipage image files require that the Multipage Documents parameter is set to **Separate file for each page**. Alternatively, scan each page using the **Send** button.
- Double-sided is only available if the scanner device supports duplexing.

**Job Separation
Sheets
(AXIS 7000 only)**

The AXIS 7000 supports the job separation sheets that can be used with certain scanner devices. A job separation sheet inserted in a stack of paper will divide the scanning job into separate image files. Other separation pages will be ignored. Visit the Axis web site for a comprehensive list of supported scanner devices with this feature.

**Paper orientation
on digital copiers**

To receive an upright image, the setting should be "Portrait" and the paper should be placed with the short-edge in the ADF (Automatic Document Feeder) or in the A4-R position on the flatbed inside the digital copier. This is true for all the supported digital copiers except Sharp AR-series which always supports the same orientation as when copying i.e. long-edge first.

Note:

The PDF rotation option can be used to enable the same feeder orientation as when copying i.e. long-edge first.

Adding Temporary Destinations

The e-mail list resident within the Document Server is initially created by your administrator. If you want to send a scanned document to an e-mail destination that is not featured in the list, you can add a temporary e-mail destination using either:

- standard PC keyboard (AXIS 70/70U/7000)
- standard web browser (AXIS 7000)

Note:

The Administrator can disable the option for users to add temporary destinations in which case the New Destination button will not appear.

Using a standard PC Keyboard

Connecting a standard keyboard to your Document Server will allow you to quickly search any destination within the resident list. You can do this by simply typing in the first couple of characters of the destination you wish to search for. The Document Server message display will automatically show the destination that best matches the keyboard input.

Note:

If the searched destination does not exist within the resident list the <Add Address> prompt will be displayed as shown below.

Follow the instructions below to add a new e-mail address to the list:

1. If the keyboard is not already connected, disconnect the Document Server power supply, connect the keyboard to the keyboard connector located on the rear panel, and then reconnect the power supply.
2. Press the Insert key on your keyboard. The following prompt will appear on the message display:

Add address:

3. Enter the new e-mail address you want to add, then press Enter.

Note:

Only the five most-recently added temporary destinations will appear in the destination list. Contact your Network Administrator if you want to add a destination permanently.

Please refer to the following table for information on additional keyboard functions:

Key	Function
Tab and Right arrow	To scroll the menu
Enter	To select multiple destinations To complete an address or subject entry
Up / Down arrows	To scroll and select menu options
Esc	To cancel the scanning process at any stage To clear any selection made from the menu To reset error messages <i>Note: Press Esc for 2 seconds to log out if authentication is enabled</i>
F1	To scan each page of bound materials, for example, magazines and books
F2	To send the scanned material to the selected destination and release the Document Server for other users. For a single page/stack of sheets, use this key to scan the material and send the image in one step
F3	To change the profile. Scroll through the list of profiles by repeatedly pressing F3
F4	To change the paper size. Scroll through the list of paper sizes by repeatedly pressing F4
F5	To switch between Duplex (double-sided) and No-duplex (single-sided) (AXIS 7000 only)
F6	To change between defined e-mail subjects. Scroll through the list of e-mail subjects by repeatedly pressing F6
F9	To select the pre-defined Quick Destination
Space	To search the next word/name in an address (e.g. J<Space>S to find John Smith)
Insert	To add an address or subject
Delete	To remove a temporary address To delete characters when editing To exit search mode
Backspace	To remove characters
Left arrow	To go backwards through the menu
Page Up	To go alphabetically to the next entry with a different first character in the "Send to:" or "Sent by:" list
Page Down	To go alphabetically to the previous entry with a different first character in the "Send to:" or "Sent by:" list
Home	To go to the first entry in a list
End	To go to the last entry in a list

From a Web
browser:
AXIS 7000 only

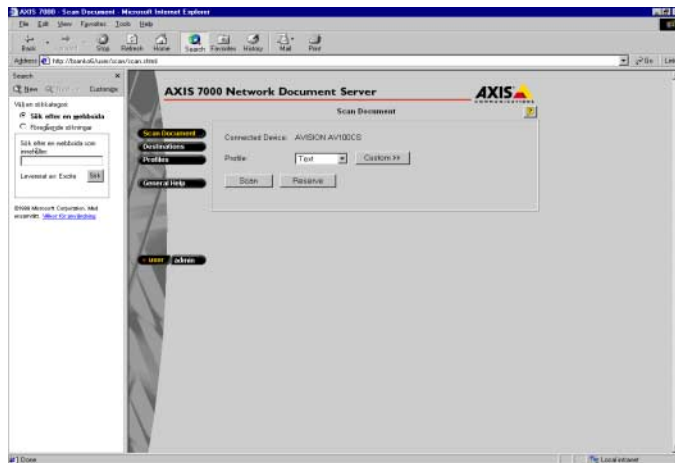
Follow the instructions below to remotely add temporary e-mail addresses to the address list:

1. Start the Web browser.
2. Enter the name or IP address of your Document Server on the location/address line.

Example:

http://172.16.253.80

This displays the Document Server Home Page



3. Click **Destinations**. The table lists the available destinations.
4. Click **New Destination** and specify the settings for the new destination.
5. Click **OK** to save the destination temporarily.

Notes:

- Only the five most-recently added temporary destinations will appear in the destination list. Contact your Administrator if you want to add a destination permanently.
- All temporary destinations are erased when the Document Server is shut down or re-started.

Adding Temporary Profiles (AXIS 7000 only)

If you have tried all the available profiles but are still not satisfied with the result of your scanned image, you can add a temporary profile from the Web browser interface.

1. Start the Web browser.

Note:

The Administrator might not allow the user to add temporary profiles.

2. Enter the name or IP address of your Document Server on the location/address line.

Example:

http://172.16.253.80

3. This brings you to the Document Server Home Page. Click **Profiles**.
4. The table lists the available profiles. Click **New Profile** and specify your settings. If you place a document in the scanner device, you can click **Scan** to monitor the results.

Note:

The Administrator can disable the option for users to add temporary profiles in which case the **New Profile** button will not appear.

5. Click **Add** to save the profile temporarily. Contact your Network Administrator to make a profile permanent.

Notes:

- Only the five most recently added temporary profiles will appear in the profile list. Contact your Administrator if you want to add a profile permanently.
- All temporary profiles will be erased when the Document Server is shut down or re-started.

Changing the Name of the Scanned Image Files (AXIS 7000 only)

To change the name of the scanned image file perform these instructions from the Document Server control panel and keyboard:

1. Select one or more file destinations.

Example:

```
Send to:      +1  
Accounting Dept
```

2. Press **Tab** and use the **Left** and **Right** arrows on the keyboard to navigate in the menu list. The Document Server display will show the following message with the default name or the previously entered name for that specific file.

```
Enter file name:  
Default name
```

Note:

You can also use the keyboard shortcut **Ctrl s**.

3. Edit the file name using the keyboard.
4. When you are finished press **Enter** and the Document Server will return to the previous state so that you can change other scanning properties and proceed as described in "*Sending to Destinations*" on page 92.

Note:

If the file name already exists a sequence number will be added to the file name if the **Append sequence number to file name** option under **admin|Destinations|File Destination New>>** has been selected. If this option has not been selected, the old file will be replaced.

Adding a Temporary E-mail Subject

There is a list of pre-defined e-mail subjects resident within the Document Server. If you want to send a scanned document with an alternative e-mail subject, you can add a temporary e-mail subject using either:

- standard PC keyboard (AXIS 70/70U/7000)
- standard Web browser (AXIS 7000)

Follow the instructions below to add a temporary e-mail subject to the list:

1. If the keyboard is not already connected, disconnect the Document Server power supply, connect the keyboard to the keyboard connector located on the rear panel, and then reconnect the power supply.
2. When you have selected the e-mail destination and the sender of the e-mail, press the **Menu** key on your Document Server. The following prompt will appear on the message display:




Subj ect :

3. Enter the new e-mail subject you want to add using the keyboard, then press **Send**.

Notes:

- The e-mail subject will appear in the list of e-mail subjects and can be made permanent by the administrator. See "*Specifying Destinations*" on page 57 for details or contact the administrator.
- You can only add one temporary e-mail subject to the list. Any temporary e-mail subject will be overwritten.

Scanning Parameters

From the Document Server control panel, press Menu  to scroll through the scanning menu. Use   to find the desired value. If a keyboard is connected, press Tab and use the UP/Down arrow keys to find the desired value or search the menu by typing the parameter name (or the first letters in the parameter name).

The table below describes the available parameters for each destination type. (The AXIS 70/70U supports e-mail destinations only):

Parameter	Destination Type			Comment
	E-mail /URL	FTP	Printer	
Send to	yes	yes	yes	
Sent by	yes	no	yes	If enabled by the administrator. <i>Note: Always disabled using Authentication.</i>
Subject	yes	no	no	If enabled by the administrator
Enter file name	yes	yes	no	If enabled by the administrator
Number of copies	no	no	yes	
Profile	yes	yes	yes	
Paper size	yes	yes	yes	
Double-sided	yes	yes	yes	If supported by your scanner device

Note:

If you do not specify anything, the default settings will be used.

Profile The AXIS 7000 comes pre-installed with 10 standard profiles designed to cover most needs. The AXIS 70 comes with 4 standard PDF profiles. Refer to "Predefined Profiles" on page 103 for details.

The profiles are maintained by the Administrator. If you have been granted permission by your *administrator*, you can define temporary profiles. For details, refer to "Adding Temporary Profiles (AXIS 7000 only)" on page 99.

Select a profile appropriate to the document to be scanned. Documents typically use one of the Text profiles. Pictures could use one of the Text/Photo, Gray or Color profiles.

Scanning color images to JPEG/JFIF can be time consuming due to the amount of computation performed by the AXIS 7000. You should therefore avoid using a higher resolution than is really needed. "Color low" (75 dpi) is normally sufficient for web publishing of color images.

If you intend to manipulate a scanned color image using an image editor, it is recommended that you use uncompressed TIFF.

Note:

Uncompressed TIFF may generate very large files.
--

Predefined Profiles

This table outlines when to use the predefined profiles:

Name	Description
Color high	Color pictures with high demand for precision. Suitable for photos, databases, clip art in documents etc. Not suitable for web publishing, since the image is larger than what the display will show. The JPEG/JFIF format cannot generate multipage files.
Color low	Color pictures suitable for web publishing, databases, clip art in documents etc. The JPEG/JFIF format cannot generate multipage files.
Gray high	Black/white pictures, diagrams etc. which require more detail. Generates 16 shades of gray.
Gray low	Black/white pictures suitable for web publishing. Generates 16 shades of gray.
Text (default)	Black/white documents intended for OCR, or documents containing small text. Suitable for most kind of document scanning. This is the default profile.
Text high	Black/white documents containing very small text. Excellent for OCR. If the scanner device does not support 600 dpi, its maximum resolution will be used instead.
Text low	Black/white documents not intended for OCR, or documents containing large text, e.g. invoices. Suitable when maximum scanning speed and minimum file size is required.
Text/Photo	Black/white documents with pictures. The pictures are dithered to create a rasterized effect. Especially good for faxing. Not suitable for OCR. As an alternative, try a grayscale profile.
Text PDF	Creates a Black and white PDF document; suitable for printing or distribution as an e-mail attachment.
Color PDF	Creates a 150 dpi PDF document; suitable for printing or distribution as an e-mail attachment.

Paper Sizes

The Document Server comes with pre-installed paper sizes designed to cover most needs. The default paper size is Letter. The paper sizes are maintained by the Administrator. See also the table on "*Predefined Paper Sizes*" on page 81.

Double-sided If supported by the attached scanner device, you can select Double-sided to scan both sides of a page simultaneously. This option is also known as *duplex* and may be referred to by that term in the scanner device documentation.

Note:

By default the double-sided (Duplex) parameter is set to **off**.

Sending to your Web Browser (AXIS 7000 only)

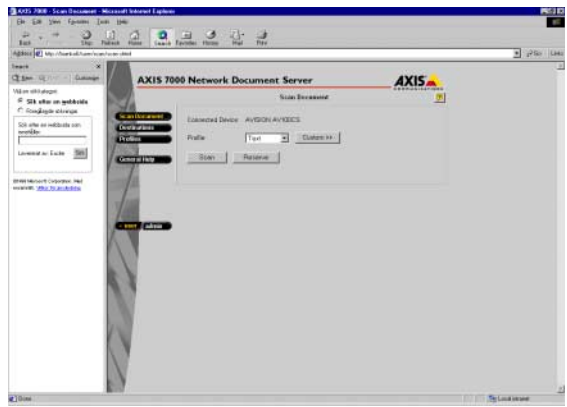
Follow these steps to scan to your Web browser:

1. Place the material in your scanner device.
2. Start the Web browser.
3. Enter the name or IP address of the AXIS 7000 on the location/address line:

Example:

<http://172.16.253.80>

4. This brings you to the AXIS 7000 Home Page, the Scan Document page.



We recommend that you add the address as a bookmark, or as a link on the Department or Workgroup Web page.

5. Optionally change the default profile.

6. Click **Scan** and wait for the image to appear in your Web browser. Depending on the image format specified by the profile, the Web browser will display the image in an associated viewer or ask you to save the file. For further processing, you must save the image from within the viewer as the Web browser will normally use a temporary file name.
7. If you are not satisfied with the result, you can try one of the other available profiles or set up a new one by clicking **Custom >>**.
8. If you have additional documents to scan, click **Reserve Scanner** to lock the unit for your own use and then complete the scanning from the AXIS 7000 control panel.
9. Insert a single page on the flatbed or a stack of paper into the sheet-feeder of the attached scanner device.
10. At the AXIS 7000 control panel, continue as follows:

One single page or a stack of paper in the sheet feeder:

- a. Press **Send** (⊞) to scan and transmit the image to your Web browser in one step.

Several separate pages or stacks of paper:

- a. Press **Add** (⊞) to scan each page or stack.
- b. Insert the next page or stack and press **Add** (⊞) again. Repeat the procedure until all your pages are scanned.
- c. Press **Send** (⊞) to transmit the image to your Web browser.

During the scanning this message appears on the display:

Scanni ng #1
pl ease wai t

11. When you have pressed **Send** (⊞) and the transfer of the scanned image is completed, the AXIS 7000 is released for other users to access.

Notes:

- By scanning multiple pages, you can accumulate several pages into one image file. See "*Multipage Image Files*" on page 94.
- You must press the **Add** button or the **Send** button on the control panel within 5 minutes. Otherwise, the operation will be executed automatically.
- The **Reserve Scanner** function is not available when Authentication is enabled.

Viewing Image Files

The AXIS 7000 generates standard TIFF, JPEG/JFIF and PDF formats that are supported by most image-related applications; and PCL format, that is supported by most printers.

Although the AXIS 7000 does not rely on any product-specific software installed on each client, tools for viewing and manipulating the images are required.

There are basically two different types of imaging tools:

- Tools optimized for image/picture editing
- Tools optimized for handling scanned documents

Tools for Image/Picture Editing

Tools for image/picture editing normally support JPEG/JFIF and single-image uncompressed TIFF format. They are optimized for handling color and gray-scale images. Such tools are delivered with the desktop scanners. Most tools will work, as long as JPEG/JFIF and/or TIFF formats are supported.

Tools for Viewing, OCR and Archiving

Tools for viewing, OCR and archiving generally support multipage compressed TIFF, but often also JPEG/JFIF. Document viewers are optimized for presenting document data in a readable format on a screen. Suitable tools are often bundled with desktop scanners. Tools that combine viewing and simple archiving are becoming increasingly popular. These tools are delivered with Windows 95/98 and Windows NT.

Notes:

- Although the generated TIFF image files do not contain searchable text, you can use an Optical Character Recognition (OCR) application to convert the bitmap to text that can be corrected, indexed, searched or copied to other files.
- The generated PDF image files do not contain searchable text. You can use Adobe Capture or the built-in capture function in Adobe Acrobat to make the text searchable.

Acrobat Reader

The PDF format requires the Adobe Acrobat Reader. Acrobat Readers for Windows, Macintosh and UNIX can be downloaded free of charge from Adobe Systems Web site <http://www.adobe.com> or from the AXIS Network Product CD.

Notes:

- When using the "Text" profiles for scanning documents, make sure that the viewing tool supports multipage CCITT G.4-compressed TIFF; the TIFF format is the most common standard for imaging and archiving of scanned documents. If your application does not support multipage documents, you can create a profile that generates single page documents, or scan each page as a separate job.
- When scanning pictures for web publishing, create a JPEG/JFIF file using either the "Color low" or "Color high" profiles. The image files generated by these profiles are supported by almost all existing image editors and Web browsers.
- The AXIS 7000 is compatible with the majority of today's popular tools. However, if you find a tool that is not supported by the AXIS 7000, we would like to know about it. For information on how to contact us see "Preface" on page 5.
- For further information, including recommendations for specific tools and sample images created by the AXIS 7000, see the Axis web site at <http://www.axis.com>

Associating Image Formats with Applications

Applications are typically associated with a file format automatically during the installation procedure. If not, we recommend that you manually associate your image applications with the supported image file formats, so that double-clicking on an image icon launches the appropriate application.

Follow the instructions below to associate an application with a specific file format in Windows 95 and NT:

1. In Windows Explorer, click the **View** menu, click **Options**, and then click the **File Types** tab.
2. To create a new file type, click **New Type**. To modify the settings for an existing file type, select the type, and then click **Edit**.
3. Specify a description for the file type and the file name extension associated with this type of file.
4. Click **New** to define an action for this file type.
5. In the **Action** field, type `Open`. In the **Application used to perform action** field, specify the path to the application you want to use for opening files that have this extension.

Meta Information

AXIS 7000 only

The Meta Information functionality allows the Developer, System Integrator, Administrator etc. of the AXIS 7000 Network Document Server to define a list of information to be requested (it can be required or optional information) from the user at the moment of scanning. The user will be prompted for this information before the document is scanned and sent over the network.

This section describes Meta Information from the perspective of the Developer/System Integrator/Administrator and the user.

The Meta Information will be sent together with the scanned image in the Information File or as a separate document to a different destination. The Meta Information file format is specified by the Developer/System Integrator/Administrator in XML, HTML or almost any other text format. The Developer can also choose to send information set by the AXIS 7000 itself, e.g. a time stamp or user identification.

This Meta Information can then be used by different applications such as accounting software, workflow systems, archiving systems, document management systems, imaging systems, knowledge management systems etc or for storing in a database server.

Note:

- The Meta Information functionality requires that there is a keyboard connected to the AXIS 7000. If the Meta Information functionality is enabled and you do not have a keyboard connected you will receive the Error Message "Meta Data Enabled. Keyboard required".
- XML (eXtensible Markup Language) is used as the language that defines the requested information.

Specifying the Meta Information (XML DD File)

The administrator defines the list of requested information that the user is required to enter before scanning the document. The user is prompted to enter the information by messages on the AXIS 7000 Document Server control panel display.

The administrator specifies these messages by writing an XML DD (Document Description) file in a text editor. This file is then saved on an FTP server and the AXIS 7000 will be configured to retrieve the XML DD file from the specified FTP server. See "*Retrieving the XML DD file*" on page 127.

Note:

You can write the XML DD file in any text editor although it is recommended that you download a Freeware XML writer with XML validation. There are several XML writers available in the AXIS 7000 Developer section at <http://www.axis.com>

XML DD file The XML DD (Document Description) file specifies what the user will be prompted for, and the format and contents of the output information file. The file is limited to a size of 50 000 bytes. The AXIS MetaData DTD defines the syntax of the XML DD file. For more information see "*Meta Information DTD*" on page 145.

The built in html-based XML parser can be used for validating an XML DD file. This enables the administrator to verify that the XML DD file used for Meta Information is correct before setting up the whole environment.

Note:

This functionality is **only** for the validation of an XML DD file. Nothing of the parsed XML DD file will be used or stored in any way.

Application Examples

This section contains three examples of the Meta Information functionality. The examples are complete with XML DD files. For more examples, please refer to the White papers in the Developer section at http://www.axis.com/products/axis_7000/

Note:

You cannot copy n' paste the following examples into the XML parser. If you want to try out the examples you can find them in the correct format in the Developer section at <http://www.axis.com>

Example: Archiving You have an electronic archive (file server) for your scanned documents and you want to store certain information together with each document. The administrator can, for example, request the following information before scanning the document:

- Document Identification Number
- Name of Document
- Name of Issuer
- Version Number
- Classification
- Level of Importance

Example: Invoice You receive an invoice and you want to scan and send it over your network to the Accounts Department and to the Orderer with the following information:

- Invoice Number
- Date of Payment
- Name of Orderer

Example: Job applications Your company receives a number of job applications and you want to store these applications for future reference. The user is prompted to enter the following information when scanning the document:

- Job Description
- Arrival Date
- Personal Details of Applicant
- Job Type

Example: Archiving

Electronic Archive (File server) The administrator wants to send the following information with the scanned image (as specified in the "Archiving" example above):

1. Document Identification Number
2. Name of Document
3. Name of Issuer

4. Version Number
5. Classification
6. Level of Importance

In this example the information is always asked and is not associated with any specific destination. The XML DD file generates the required messages (1 to 6) in this example.

- XML DD file
1. Document Identification Number:
(Required information)

```
<?xml version="1.0"?>
<!DOCTYPE MetaDataFile SYSTEM "metadata.dtd">
<MetaDataFile>
<AlwaysAsk>
<MetaData Required = "yes"
      Id = "DOC_ID"
      Prompt = "Doc Id No:"
      ErrorMessage = "Wrong Id!"
      DefaultValue = "00000"
      Pattern = "0-9]{5}"
/>
```

Notes:

- The value entered by the user must match the set pattern which is, in this case, 5 digits.
- Make sure that the **DefaultValue** matches the **Pattern** in the XML DD file. The Meta Data will be discarded if the **DefaultValue** and **Pattern** do not match.
- When the Required attribute of the Meta Data is set to yes the Administrator must specify a pattern.
- See "*Regular Expressions*" on page 128 for a list of the defined expressions.

2. Name of Document:
(Required information)

```
<MetaData Required = "yes"
      Id = "DOC_NAME"
      Prompt = "Doc Name:"
      DefaultValue = "DEFAULT_NAME"
      Pattern = ".+"
/>
```

3. Name of the Issuer:
(This information is not required)

```
<MetaData Required = "no"
  Id = "DOC_ISSUER"
  Prompt = "Doc Issuer:"
  DefaultValue = "DEFAULT_ISSUER"
/>
```

4. Document Version Number:
(This information is not required)

```
<MetaData Required = "no"
  Id = "DOC_VERSION"
  Prompt = "Doc Version:"
  DefaultValue = "0.0"
/>
```

5. The user will not see the classification <DOC_CLASS> as the information is hidden and used by the archiving system only. Data with the required attribute defined as "hidden" is useful when the administrator wants to define a default value that will be included in the Information File.

```
<MetaData Required = "hidden"
  Id = "DOC_CLASS"
  DefaultValue = "AXIS7000_DOC"
/>
```

6. The user is prompted to choose from a list of values. The values in this example describe which level of importance the scanned document has. The values are not editable in this example, but if **Editable** is set to Yes the user can specify a value using the external keyboard.

```
<MetaData Required = "yes"
  Id = "DOC_IMPORTANCE"
  Prompt = "Doc Importance:"
  Editable = "no"
  DefaultValue = "Medium">
  <Value>Very high</Value>
  <Value>High</Value>
  <Value>Low</Value>
  <Value>Very Low</Value>
</MetaData>
```


The information file will be sent to the "Archiving System" destination with the entered value - in this case the archiving system would be set to archive the document corresponding to the specified level of importance.

```
<Output FileName="$DOC_IMPORTANCE$">
  <To><Destination Description="Archiving
System" /></To>
```

In this scenario, the archiving system understands the XML syntax. An XML information file is generated (through the CDATA section).

```
<Format><!CDATA<?xml version="1.0"?>
<!DOCTYPE NewArchiveDocument SYSTEM
  "newarchivedoc.dtd">
<NewArchiveDocument>
<DOC_ID>$DOC_ID$</DOC_ID>
<DOC_IMPORTANCE>$DOC_IMPORTANCE$</DOC_IMPORTANCE>
<DOC_NAME>$DOC_NAME$</DOC_NAME>
<DOC_ISSUER>$DOC_ISSUER$</DOC_ISSUER>
<DOC_VERSION>$DOC_VERSION$</DOC_VERSION>
<DOC_CLASS>$DOC_CLASS$</DOC_CLASS>
<HOST>$INT_HOST_ADDRESS$</HOST>
</NewArchiveDocument>
]]>
</Format>
</Output>
</AlwaysAsk>
</MetaDataFile>
```

Information File The destination selected by the user will receive the image and the information file. The "Archiving System" destination will receive the following information file containing the information entered by the user.

```
<?xml version = "1.0"?>
<!DOCTYPE NewArchiveDocument SYSTEM
    "newarchivedoc.dtd">
<NewArchiveDocument>
<DOC_ID>12345</DOC_ID>
<DOC_IMPORTANCE>Medium</DOC_IMPORTANCE>
<DOC_NAME>AXIS 7000 User's Manual</DOC_NAME>
<DOC_ISSUER>AXIS</DOC_ISSUER>
<DOC_VERSION>0.0</DOC_VERSION>
<DOC_CLASS>AXIS7000_DOC</DOC_CLASS>
<HOST>171.16.4.140</HOST>
</NewArchiveDocument>
```

The XML code is now complete. Save the file on an FTP server. For information on how to configure the AXIS 7000 to retrieve the XML DD file, see "Retrieving the XML DD file" on page 127.

Entering the Required Meta Information Archiving

When the user wants to scan and send a document a destination is selected from the list:

Send to:
any_destinati on

Note:

This example describes a scenario where the user is prompted to add the information before scanning and sending a document, regardless of the destination.

1. The following prompt will appear on the message display when the **Add/Send** key has been pressed. The user is prompted to enter the information and then press **Enter**. The star indicates that this is required Meta Information and that the user cannot scan without entering the requested information.

Doc I d No: *

If the entered information is invalid the following display will be shown. The user must press **Enter** and try again to be able to scan.

Wrong I d!
abcdef

2. The user is prompted to enter the name of the document and then press **Enter**. The star indicates that this is required Meta Information and that the user can not scan and send a document without entering the requested information.

Doc Name: *

3. The user is prompted to enter the name of the person who issued the document. This information is not required and can be ignored by pressing **Menu**.

Doc I ssuer:

Note:

The **Menu** button scrolls through the list of Meta Information. The **Enter** button validates the entered information against the pattern defined in the XML DD file.

4. The user is prompted to enter the version number of the document. This information is not required and can be ignored by pressing **Menu**.

Doc Versi on:

5. The user is prompted to enter the level of importance by which the document is to be archived. The specified default value appears in the display. Using the UP/Down arrows the other values can be selected.

Doc Importance:
Medium

Here is the same XML DD file in full:

```

<?xml version="1.0"?>
<!DOCTYPE MetaDataFile SYSTEM "metadata.dtd">
<MetaDataFile>
<AlwaysAsk>
<MetaData Required = "yes"
      Id = "DOC_ID"
      Prompt = "Doc Id No:"
      ErrorMessage = "Wrong Id!"
      DefaultValue = "00000"
      Pattern = "0-9]{5}"
    />
<MetaData Required = "yes"
      Id = "DOC_NAME"
      Prompt = "Doc Name:"
      DefaultValue = "DEFAULT_NAME"
      Pattern = ".+"
    />
<MetaData Required = "no"
      Id = "DOC_ISSUER"
      Prompt = "Doc Issuer:"
      DefaultValue = "DEFAULT_ISSUER"
    />
<MetaData Required = "no"
      Id = "DOC_VERSION"
      Prompt = "Doc Version:"
      DefaultValue = "0.0"
    />
<MetaData Required = "hidden"
      Id = "DOC_CLASS"
      DefaultValue = "AXIS7000_DOC"
    />
<MetaData Required = "yes"
      Id = "DOC_IMPORTANCE"
      Prompt = "Doc Importance:"
      Editable = "no"
      DefaultValue = "Medium">
    <Value>Really high</Value>
    <Value>High</Value>
    <Value>Low</Value>
    <Value>Really Low</Value>
  </MetaData>
<Output FileName="$DOC_IMPORTANCE$"
  <To><Destination Description="Archiving System"/></To>
  <Format><!CDATA<?xml version="1.0"?>
<!DOCTYPE NewArchiveDocument SYSTEM "newarchivedoc.dtd">
<NewArchiveDocument>
<DOC_ID>$DOC_ID$</DOC_ID>
<DOC_IMPORTANCE>$DOC_IMPORTANCE$</DOC_IMPORTANCE>
<DOC_NAME>$DOC_NAME$</DOC_NAME>
<DOC_ISSUER>$DOC_ISSUER$</DOC_ISSUER>
<DOC_VERSION>$DOC_VERSION$</DOC_VERSION>
<DOC_CLASS>$DOC_CLASS$</DOC_CLASS>
<HOST>$INT_HOST_ADDRESS$</HOST>
</NewArchiveDocument>
  ]]>
</Format></Output></AlwaysAsk>
</MetaDataFile>

```

Example: Invoice Handling

Invoice The administrator wants to send the following information with the scanned image (as specified in the "Invoice" example above):

The information is associated with the destination. When a destination with associated Meta Information is selected the user will be prompted to enter the requested information. The XML DD file generates the required messages (1 to 3) in this example.

1. Invoice Number
2. Date of Payment
3. Name of Orderer

In this example the information is associated with the "Accounts" or "Orderer" destination. The XML DD file generates the required display messages (1 to 5) in this example.

- XML DD file
1. Invoice number:
(Required Information)

```
<?xml version="1.0"?>
<!DOCTYPE MetaDataFile SYSTEM "metadata.dtd">
<MetaDataFile>
<Ask><When><Destination Description= "Accounts"/>
<Destination description="Orderers"/></When>
<MetaData Required="yes"
Id="INVOICE_NO"
Prompt="Invoice No:"
ErrorMessage= "Wrong No!"
DefaultValue= "00000"
Pattern= "0-9]{5}"
/>
```

2. Date of Payment:
(Required Information)

```
<MetaData Required="yes"
Id="DUE_DATE"
Prompt="Due Date:"
ErrorMessage= "Date: DD/MM/YYYY!"
Pattern= "0-9]{2}/0-9]{2}/0-9]{4}"
/>
```

3. Name of Orderer:
(Required Information)

We want the user to enter a name so the pattern is created to match a non empty string.

```
<MetaData Required="yes"
Id="ORDERER"
Prompt="Orderer name:"
Pattern= ".+"
/>
```

4. Close the elements.

```
</Ask>
</MetaDataFile>
```

Information File The destination selected by the user will receive the image and the Information File. The Information File will contain the following Meta Information.

```

MetaData]
INVOICE_NO = 12345
DUE_DATE = 05/05/2000
ORDERER = Name

```

XML DD file Here is the same XML DD file in full:

```

<?xml version = "1.0"?>
<!DOCTYPE MetaDataFile SYSTEM "metadata.dtd">
<MetaDataFile>
<Ask><When><Destination Description = "Accounts"/>
<Destination Description="Orderers"/></When>
<MetaData Required = "yes"
Id = "INVOICE_No"
Prompt = "Invoice No:"
ErrorMessage = "Wrong No!"
DefaultValue = "00000"
Pattern = "0-9]{5}"
/>
<MetaData Required = "yes"
Id = "DUE_DATE"
Prompt = "Due Date:"
ErrorMessage = "Date: DD/MM/YY!"
Pattern = "0-9]{2}/0-9]{2}/0-9]{2}"
/>
<MetaData Required = "yes"
Id = "ORDERER"
Prompt = "Orderer name:"
Pattern = ".+"
/>
</Ask>
</MetaDataFile>

```

Entering the
Required Meta
Information
Invoice Handling

The user selects the Orderer or Accounts destination:

Send to:
Accounts

The Meta Information in this example is associated with these destinations and the following messages will be displayed:

1. The user is requested to enter the number of the invoice and press Enter.

```
I nvoi ce No: *
```

If the entered value is incorrect according to the pattern the following display will be shown for two seconds before returning to the previous prompt.

```
Wrong No!  
abcdef
```

2. The user is requested to enter the date and then press Enter.

```
Due Date: *  
08/05/0000
```

3. The user is requested to enter the name of the orderer, then press Enter.

```
Orderer name: *
```

Example: Job Applications

Job Applications The administrator wants to send the following information with the scanned image (as specified in the "Job Applications" example above):

1. Job Description
2. Arrival Date
3. Personal Details of Applicant
4. Job Type

The XML DD file generates the required messages (1 to 3) in this example.

XML DD file 1. Job Description:
(Required information)

```
<?xml version = "1.0"?>
<!DOCTYPE MetaDataFile SYSTEM "metadata.dtd">
<MetaDataFile>
<Ask><When><Destination Description="Job
Applications" /></When>
<MetaData Required = "yes"
    Id = "JOB_ID"
    Prompt = "Job Ref:"
    ErrorMessage = "Wrong Job Ref!"
    Pattern = "0-9]{2}-a-zA-Z]{2}-0-9]{5}"
    DefaultValue = "00-aa-00000"
/>
```

2. Arrival Date:
(Required information)

```
<MetaData Required = "yes"
    Id = "ARRIVAL_DATE"
    Prompt = "Arrival date:"
    DefaultValue = "00/00/0000"
    ErrorMessage = "DD/MM/YYYY"
    Pattern = "0-9]{2}/0-9]{2}/0-9]{4}"
/>
```

3. Personal Details of Applicant - name:
(Required information)

```
<MetaData Required = "yes"
    Id = "PERSON_NAME"
    Prompt = "Name:"
    Pattern = ".+"
/>
```

4. Personal Details of Applicant - date of birth:
(This information is not required)

```
<MetaData Required = "no"
    Id = "PERSON_BIRTH"
    Prompt = "Birth date:"
    DefaultValue = "00/00/0000"
    ErrorMessage = "DD/MM/YYYY"
    Pattern = "0-9]{2}/0-9]{2}/0-9]{4}"
/>
```

- The user will be prompted to enter the type of job. There are listed options but the user can also enter a specific value, for example **Manager**.

```
<MetaData Required = "yes"
  Id = "JOB_TYPE"
  Prompt = "Applied Job Type:"
  Pattern = ".+"
  Editable = "yes">
  <Value>Student</Value>
  <Value>Clerk</Value>
  <Value>Boss</Value></MetaData>
```

The information file will be sent to the "Job Applications" destination

```
<Output>
<Format>
# Job Application Form
JOB_ID = $JOB_ID$
ARRIVAL_DATE = $INT_DATE$
PERSON_NAME = $PERSON_NAME$
PERSON_BIRTH = $PERSON_BIRTH$
</Format>
</Output>
</Ask>
</MetaDataFile>
```

Note:

The administrator can choose to output information internally stored in the AXIS 7000. For a list of these variables, see "*Internally Defined Variables*" on page 131.

Information File The destination selected by the user will receive the image and the information file. The "Job Applications" destination will receive the following information file containing the information entered by the user.

```
# Job Application Form
JOB_ID      = 12-ab-12345
ARRIVAL_DATE = 08/05/2000
PERSON_NAME  = John Doe
PERSON_BIRTH = 05/05/1965
```

The XML code is now complete. Save the file on an FTP server. For information on how to configure the AXIS 7000 to retrieve the XML DD file, see "*Retrieving the XML DD file*" on page 127.

Note:

The administrator has the option to specify the extension of the Information File when saving the file on the FTP server under admin|Destinations|new File Destination. If the extension is not specified the default value will be used.

Entering the
Required Meta
Information
Job Applications

When the user wants to scan and send a document a destination is selected from the list:

Send to:
Job Applications

Note:

This example describes a scenario where the user is prompted to add the information on selecting the "Job Applications" destination.

1. The following prompt will appear on the message display. The user is prompted to enter the information and then press Enter. The star indicates that this is required Meta Information and that the user cannot proceed without entering the requested information.

Job Ref: *

If the entered information is invalid (i.e. does not match the pattern) the following display will be shown. The user must press Enter and try again to be able to proceed.

Wrong Job Ref!
abcdef

2. The user is prompted to enter the arrival date and then press Enter. The star indicates that this is required Meta Information and that the user can not proceed without entering the requested information

Arrival Date: *

3. The user is prompted to enter the name of the applicant and then press **Enter**. The star indicates that this is required Meta Information and that the user can not proceed without entering the requested information.

Name: *

4. The user is prompted to enter the date of birth of the applicant. This information is not required and can be ignored by pressing **Menu**.

Birth Date:

5. The user is prompted to enter the type of job the application is for. The values are editable meaning that the user can scroll among the listed values or enter a value using the external keyboard.

Applied Job Type:

Note:

The **Menu** button scrolls through the list of Meta Information. The **Enter** button validates the entered information against the defined pattern.

XML DD file Here is the same XML DD file in full:

```

<?xml version = "1.0"?>
<!DOCTYPE MetaDataFile SYSTEM
"http://10.13.16.165/admin/support/xml_parser.shtml?GetDTD=yes">
<MetaDataFile>
<Ask><When><Destination Description="Job Applications" /></When>
<MetaData Required = "yes"
    Id = "JOB_ID"
    Prompt = "Job Ref:"
    ErrorMessage = "Wrong Job Ref!"
    Pattern = "0-9]{2}-a-zA-Z]{2}-0-9]{5}"
    DefaultValue = "00-aa-00000"
/>
<MetaData Required = "yes"
    Id = "ARRIVAL_DATE"
    Prompt = "Arrival date:"
    DefaultValue = "00/00/0000"
    ErrorMessage = "DD/MM/YYYY"
    Pattern = "0-9]{2}/0-9]{2}/0-9]{4}"
/>
<MetaData Required = "yes"
    Id = "PERSON_NAME"
    Prompt = "Name:"
    Pattern = ".+"
/>
<MetaData Required = "no"
    Id = "PERSON_BIRTH"
    Prompt = "Birth date:"
    DefaultValue = "00/00/0000"
    ErrorMessage = "DD/MM/YYYY"
    Pattern = "0-9]{2}/0-9]{2}/0-9]{4}"
/>
<MetaData Required = "yes"
    Id = "JOB_TYPE"
    Prompt = "Applied Job type:"
    Pattern = ".+"
    Editable = "yes">
    <Value>Student</Value>
    <Value>Clerk</Value>
    <Value>Boss</Value></MetaData>
<Output>
<Format>
# Job Application Form
JOB_ID = $JOB_ID$
ARRIVAL_DATE = $INT_DATE$
PERSON_NAME = $PERSON_NAME$
PERSON_BIRTH = $PERSON_BIRTH$
</Format>
</Output>
</Ask>
</MetaDataFile>

```

Retrieving the XML DD file

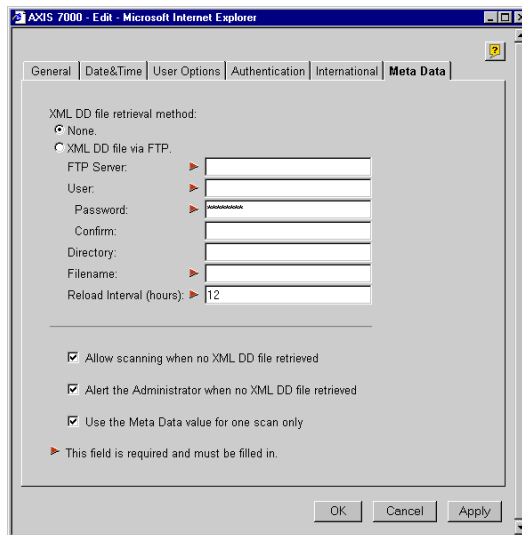
To download the XML file to the AXIS 7000, you must access the AXIS 7000 embedded web pages using a standard Web browser such as Netscape Navigator or Internet Explorer:

1. Start your Web browser.
2. Enter the name or IP address of your AXIS 7000 in the location/address field.

Example:

`http://172.16.253.80`

3. This brings you to the AXIS 7000 Home Page. Click **admin**. Log on as described in "*Accessing the Tools*" on page 37.
4. Click the **Edit** button on the This AXIS 7000 page and then click the **Meta Information** tag to display the page where you specify the Meta Information parameter settings.



5. Click one of the radio buttons to disable/enable the Meta Information handling:
 - Click **None** to disable Meta Information (disabled by default).
 - Click **XML DD file via FTP** to enable the Meta data functionality. Specify the parameter settings as described in the table below.

Parameter	Description
FTP Server	Specify the name or IP Address of the FTP server where the file is stored.
User	Specify the user name for logging on to the FTP server
Password	Specify the password for logging on to the FTP server. If the user field is left blank, this setting will be ignored.
Confirm	Confirm the password to make sure the spelling is correct.
Directory	Specify the directory on the FTP server where the file is stored. If left blank, the root directory on the FTP server will be used. <i>Note: Specifying the root as "/" will work in the majority of FTP servers.</i>
File name	Specify the name of the file.
Reload Interval	Specify how often the XML DD file is reloaded. The value is specified in whole hours.
Allow scanning when no XML DD file retrieved	If enabled, the user is allowed to send a document without entering any Meta Information even though the AXIS 7000 has failed to retrieve the XML DD file from the FTP server, .
Alert the Administrator when no XML DD file retrieved	If enabled, the AXIS 7000 will send an e-mail to the administrator indicating that it was unable to retrieve the XML DD file
Use the Meta Data value for one scan only	If enabled, the AXIS 7000 will not reuse the values entered by the User for additional scanning.

6. Click **Apply** to save your changes, then click **OK** to return to the **This AXIS 7000** page.
If you want to return to the **This AXIS 7000** page without saving your changes click **Cancel**.

Regular Expressions

Each MetaData object is defined in the XML DD (Document Description) file. In this file the Administrator can set the pattern which is defined by a set of regular expressions used to check the lexical correctness of the value.

Example:

- Prompt="Due Date:"
Pattern= "0-9]{2}/0-9]{2}/0-9]{2}"
- Prompt="Orderer name:"
Pattern= ".+"

The format is enclosed into a string delimited by the quote ("") character, new lines are not accepted in the regular expression.

The regular expressions are described here:

Character	Description
" "	empty string only
.	matches any character except new line. (This pattern will be the default value of the Meta Information format field)
+	(postfix) matches the previous expression one or several times
*	(postfix) matches the previous expression zero, one or several times
?	(postfix) matches the previous expression once or not at all
..]	character set; ranges are denoted with -, as in a-z]; an initial ^, as in ^0-9], complements the set
r{1,5}	r could be repeated between 1 and 5 times *(upper limit: 48)
r{1}	r must be repeated exactly once.
r{2,}	r must be repeated at least twice.
r{,2}	r could be repeated twice (i.e. 0, 1 or 2 times).
^	matches at beginning of line
\$	matches at end of line
"a b"	"a" or "b"
	(infix) alternative between two expressions
(...)	grouping and naming of the enclosed expression
\1	the text matched by the first (...) expression (\2 for the second expression, etc)
\b	matches word boundaries
\	quotes special characters.
"0-9]"	"", "0", "14876328746", ...
"a-z]+"	"a", "qwerty", ...
"abcd?"	only "abc" and "abcd" correct
"A-Z]"	only one letter between 'A' and 'Z' correct
"i{1,3}"	only "i", "ii", "iii" correct.

"i{5}"	only "iiii" correct
"i{2,}"	only "ii", "iii", "iiii", ...
"i{,2}"	only "" "i" and "ii"
"^qwerty"	"qwerty" correct but not "aqwerty"
"qwerty\$"	"qwerty" correct but not "qwertyu"

Notes:

- **infix** notation:
Structure notation where the operator is located between the operands, e.g. (A+B).
- **postfix** notation:
Structure notation where the operator follows the operands, e.g. (A,B)-.
- *The upper limit for repetitions is set to 48. (This limitation does not apply if the **Editable** attribute in the XML DTD is set to **NO**)

Some more examples of regular expressions:

Example	Description
"0-9]{2}/0-9]{2}/0-9]{4}"	Date DD/MM/YYYY
"a-zA-Z]+) (a-zA-Z]+.a-zA-Z]+) @a-zA-Z]+.a-z]{2,3}"	E-mail address: name@example.com name@example.se
"(\(0-9]{3}\))?0-9]{3}]{,1}0-9]{4}"	Telephone number "(123) 123-1234" "(123)1231234" "(123) 123 1234"
"a-zA-Z]+)"	Name: "John Doe" "John"
"0-9]{2} ?0-9]{3}"	ZIP code "12345" "12 345"
"(1 2 3 4 5 6 7 8 9 10 11 12): 0-9]{,2}(:0-9]{0,2}) ?(AM am Am PM pm Pm)"	Time : "1:05:59 AM" "1:05:59 am" "1:05:59 PM" "1:05:59 pm" "1:05 AM"
"^(http:// ftp:// https:// go- pher://)?(a-zA-Z0-9]+.)*a-zA-Z 0-9]+(/(a-zA-Z0-9] - .)+)*"	URL : "http://www.ax- is.com/prod/index.html" "ftp://ftp.axis.com/pub/" "www.axis.com" "http://www2.lemonde.fr/arti- cle/0,2320,seq-2039-53663-MI A,00.html"

Internally Defined Variables

There are several internal variables defined by the AXIS 7000 that can be output in the Information File. These internal variables are listed below.

Example:

```
<Format>
The image is located at $INT_FILE_URL$
The time at the moment of scanning was $INT_TIMES$
</Format>
```

This table contains a list of these internal variables:

Character	Description
INT_FILE_URL	Specifies the URL of the image file. For a file on an FTP server this URL will correspond to the complete URL of the file. For an e-mail to a pre-set destination it will correspond to the URL specified on the Web interface.
INT_FILE_NAME	Specifies the file name of the image file only.
INT_FILE_SIZE	Specifies the size of the image file.
INT_DATE	Specifies the date of the image file.
INT_TIME	Specifies the time of the image file.
INT_HOST_NAME	Specifies the host name of the AXIS 7000 that produced the file.
INT_HOST_ADDRESS	Specifies the IP address of the AXIS 7000 that has produced the file.
INT_SCANNER	Specifies the descriptive name of the scanner that produced the image file.
INT_PROFILE	Specifies the profile used for the scanning.
INT_PAPER_SIZE	Specifies the paper size used for the scanning.
INT_NUMBER_OF_PAGES	Specifies the number of pages of the image file.
INT_WIDTH	Specifies the width of the image file.
INT_HEIGHT	Specifies the height of the image file.
INT_X_RESOLUTION	Specifies the horizontal resolution of the image file.
INT_Y_RESOLUTION	Specifies the vertical resolution of the image file.

INT_BITS_PER_PIXEL	Specifies the number of bits per pixel of the image file.
INT_DATA_TYPE	Specifies the data type of the image file.
INT_PAPER_ORIENTATION	Specifies the paper orientation of the image file.
INT_FORMAT	Specifies the format of the image file.
INT_DOUBLE_SIDED	Specifies the orientation of the image file.
INT_INTENSITY	Specifies the intensity of the image file.
INT_CONTRAST	Specifies the contrast of the image file.
INT_DESTINATION	Specifies the destination description that originated the image file.
INT_SUBJECT	Specifies the selected subject.
INT_USER_MAIL	Specifies the e-mail address of the user.
INT_USER_ID	Specifies the description of the user.
INT_MAC_ADDRESS	Specifies the MAC address of the Axis Network Document Server that produced the image file.
INT_LAST_RESET_DATE	The date when the counter was last reset
INT_COUNTER_LAST_RESET	The counter at the time of the last reset
INT_COUNTER_TOTAL	The counter total (cannot be reset)

More Information For more information on the Meta Information functionality and for more XML DD file examples, please refer to the White papers in the AXIS 7000 Developer section at <http://www.axis.com>

Troubleshooting

This appendix helps you to:

- Restore factory default settings to the AXIS 70/70U/7000
- Interpret the Document Server front panel indicators
- Interpret the Document Server error messages
- Display the log file

Restoring Factory Default Settings

The factory default settings can be restored using one of the following methods:

- Push button
- Web browser
- FTP

Important!

When you restore the factory default settings, all your current settings including the destinations and profiles will be lost. You will need to re-assign the IP address as described in "*Assigning an IP Address*" on page 24.

Push Button Follow these steps to restore the default settings using the Push button:

Important!

If you have forgotten the previously installed server password, the push button provides the only method available for resetting the unit to factory default.

1. Turn off the Document Server by disconnecting the power supply.
2. Press and hold the Push button while you connect the Document Server. Keep the Push button pressed until the Status indicator flashes at regular two second intervals.



Push button

Example AXIS 7000

3. Release the Push button and wait at least two seconds (one flash of the indicators).
4. Press and hold the Push button for at least five seconds until the Status indicator remains constantly lit.
5. The Document Server is now reset to factory default settings.
6. Restart the Document Server by disconnecting and reconnecting the power supply.

Web Browser Follow these steps to reset to the defaults settings from a web browser:

1. Start the web browser.
2. Enter the name or the IP address of the Document Server in the location/address field. The Document Server Home Page is displayed.
3. Click **admin**.
4. Click **Factory Defaults**.
The Document Server will now restart with the factory default settings.

FTP Follow these steps to restore the default settings using FTP:

1. Log in to the Document Server with the command `ftp <Internet address>`, where `<Internet address>` is the name or IP address assigned to your Document Server.
2. You will be prompted for user id and password. Use the user id `root`, which has the default password `pass`.
3. Issue the command `get defaults` to restore the default settings. The unit now restarts automatically.
4. Log out using the command `quit`, `bye` or `exit` depending on your FTP version.

The Document Server will now restart with the factory default settings.

Front Panel Indicator Conditions

The Power LED is hardware controlled and should always remain on when power is connected to the Document Server. The remaining LEDs are all software controlled.

Normal Conditions This table shows the front panel indicators during normal conditions:

Event	Status LED	Busy LED	Network LED	Remarks
Power up	On	On	On	Initial power to unit
	On	Off	Off	Memory test
	Flash	On	Off	Self test in progress
	On	Off	Flash	Network LED flashes when network traffic is present
Sending	On	On	Flash	
Idle	On	Off	Flash	Network LED flashes when network traffic is present
Flash loading	Blink	Blink	Blink	During Flash loading, the Network LED blinks quickly

Error Conditions This table lists a summary of error conditions:

Event	Status LED	Busy LED	Network LED	Remarks
Power up	On	Off	Off	Check SCSI cable to scanner device
	Off	Off	Off	Check RJ45 cable to network
Idle	On	Off	Off	Check RJ45 cable to network. If known network traffic, the Network LED should flash.
Error in FLASH PROM	Flash	Off	Flash	Consult Network Administrator
Error in SRAM	Flash	Flash	Off	Consult Network Administrator
Error in DRAM/DIMM	Flash	Off	Off	Consult Network Administrator
DRAM/DIMM configuration error	Flash	Flash	Off	Consult Network Administrator
SW-HW combination error	Flash	Flash	Flash	Consult Network Administrator
Illegal serial no.	Flash	Flash	Flash	Consult Network Administrator
Flash load failed	Flash	Off	Off	Consult Network Administrator

Status Indicator Off The Status indicator remains off if a problem with the scanner device communication has occurred. The Document Server message display may additionally provide error status information.

Network Indicator Off The Network indicator flashes when there is network traffic. If it remains off and you know there is network activity, check the network connection.

Error and Warning Messages

This table lists the error and warning messages that might appear on the Document Server message display. Some error messages are applicable to the AXIS 7000 only:

Message	Description
A timeout has occurred on the scanner, the job has been canceled	Please check the scanner device and try again.

Message	Description
A value specified for XML Meta Data XX ignored: the value has illegal format	Check that the XML values correspond with the specified pattern.
Could not connect to LDAP server	The DNS name or the IP address may be wrong. The server may be unreachable.
Could not connect to Windows NT domain controller	The name or the IP address may be incorrect or the server may be unreachable.
Device is busy	Please try again later.
Disconnected: <destination>	The connection to the destination specified in <destination> has been lost. The image transfer has been aborted.
Failed to retrieve user information	Check that the entered username has a corresponding name listed in the destinations list.
Illegal address <recipient>	Incorrect e-mail address specified for the e-mail destination.
Illegal command for (The printer may be busy):	Incorrect LPD Mode selected for the specified printer destination.
Illegal directory on: <server address>	The directory specified for the file destination does not exist.
Illegal LDAP filter specified	Invalid LDAP filter. Please enter a new value.
Illegal queue for:	The specified LPD print queue does not exist; check spelling and syntax.
Incorrect Value	The entered value does not match the pattern specified by the administrator.
Invalid field in SCSI CDB (AXIS 70/7000)	The SCSI command includes an invalid field. Contact your Document Server dealer.
Invalid field in SCSI parameter list (AXIS 70/7000)	The SCSI parameter block includes one or several invalid fields. Contact your Document Server dealer.
Invalid LDAP credentials (e.g. invalid user or password)	The LDAP server did not recognize the user with the specified password.
Invalid SCSI command (AXIS 70/7000)	The scanner device does not support the given SCSI command. Contact your Document Server dealer.
Invalid Windows NT credentials	Check the username and password and try again.
LDAP error! No/several e-mail address(es) were retrieved	The user could not be authenticated by the LDAP server. Change the LDAP settings and try again.
Login failed: <server address>	Incorrect FTP server password specified for the file destination.
Meta Data enabled. Keyboard Required	The meta Information functionality is enabled and requires that a keyboard is connected.
MetaData Enabled. XML DD file required	The Document Server failed to retrieve the XML DD file from the FTP server. Contact the administrator.
Missing mandatory FTP parameter for external address book	Check the FTP settings for the external address book and try again.
No destinations were retrieved	No destinations were retrieved. Change your LDAP settings and try again.

Message	Description
No info file on: <server address>	The information file could not be stored on the FTP server. Possible reasons are lack of memory or naming conflicts. The image file will be removed.
No paper in scanning device	No paper in the sheet feeder. Applies to scanners and digital copiers without a flatbed.
No valid mail recipient found	All the selected e-mail destinations were incorrect.
Not available: <server address>	Cannot establish communication with the server specified in <server address>. Please try again later.
Out of memory	The document image contains too much data. Please try another profile.
Out of scanner image memory	The document image contains too much data. Please contact your equipment supplier.
Paper jam	Paper jam in the scanner device. Remove paper to continue sending.
Scanner compression unit failure	The image compression unit in the scanner device did not work properly. Contact your equipment supplier.
Scanner firmware failure	The scanner device reports a software failure. Contact your supplier.
Scanner fuse blown	A fuse in the connected scanner device is blown. Refer to your suppliers user documentation for instructions.
Scanner hardware failure	The scanner device reports a hardware failure. Contact your equipment supplier.
Scanner lamp failure	The lamp in the connected scanner device is blown. Refer to your suppliers user documentation for instructions.
Scanner not connected Scanner disconnected	Please check the scanner device connection and try again.
Scanner not ready, please check scanner and retry	The scanner device is busy. Please try again. If the error occurs repeatedly, contact your equipment supplier.
Scanner not ready, please check scanner and restart the scan server	An error has occurred in the scanner device. Check the scanner device and restart the Document Server.
Scanner not supported	The attached scanner device is not supported. Digital copying/scanning will not work properly.
Scanner warming up, please retry	The scanner device lamp must reach the correct temperature and intensity.
Scanning failed	An error occurred whilst sending. Please refer to earlier messages.
SCSI command sequence illegal (AXIS 70/7000)	The scanner device cannot receive the SCSI commands in the order they were sent. Contact your Document Server dealer.
SCSI parameter length illegal (AXIS 70/7000)	The length of the SCSI command is illegal. Contact your Document Server dealer.
SMTP Authentication is not supported on xxx	Check xxx and make sure that SMTP authentication is supported
SMTP Authentication failed for user xxx	Invalid user name for SMTP authentication. Enter a correct user name.








Message	Description
xxx is an invalid SMTP Authentication protocol	Check that the xxx file supports the SMTP Authentication protocol
SMTP Authentication needs an authenticated user	The user must enter a valid username and password in order to access the Document Server
The ADF cover is open, please check and retry	Check that the ADF cover is properly closed and try again.
The user specified for LDAP is invalid	Invalid user name for the LDAP server. Enter a correct user name.
Unresolved name: <server name>	Cannot find the IP address mapped to <server name>.
USB Device not supported	The connected device is not supported by the Document Server
USB Hub not supported	The Document Server cannot be connected to a USB Hub
User and password are required to connect to this LDAP server	Please enter your username and password.
User and password can not be used to connect to this LDAP server	This LDAP server does not accept requests with the specified username and password.
Unable to open file on:	Default file name is missing.
Write error on: <server address>	Insufficient access rights to the directory specified for the file destination.

Displaying the Log File

The Document Server log file automatically logs all events and errors that have occurred since the last restart. You can access the log file using one of these methods:

- Control panel
- Web browser

Control Panel Follow these steps to display the log file from the control panel:

1. Press Menu  and Select  simultaneously to display the **Advanced** menu.
2. Use   to find the **Server log** option.
3. Press Select  to enter the submenu.
4. Use   to scroll through the messages.

Web Browser Follow these steps to display the log file from a Web browser:

1. Start the Web browser.
2. Enter the name or IP address of the Document Server in the location/address field:

Example

`http://172.16.253.80`

3. The Document Server Home Page is displayed. Click **admin**.
4. Click **Event Log**.
The event log is displayed.

LDAP

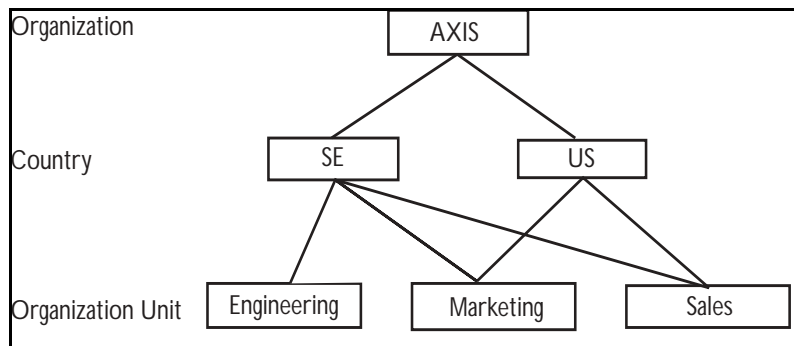
Introduction LDAP (Lightweight Directory Access Protocol) is used to program directory-enabled applications. It is a directory service that allows people to locate other users, resources, services and information. LDAP allows resources and services to be selected with ease and accessed with location-independence.

Note:

LDAP works differently depending on the organization and the structure of the system.

Structure Example A structure can look like this:

Example:



Common Attribute Types

These are the most typical attribute types (the LDAP server implementation should understand these attribute types):

Attribute Type	Matches
objectClass	Describes the kind of object which the entry represents.
cn	Contains the name of an object. If the object is a person, it is typically the person's full name.
sn	Contains the family name of a person.
c	Contains a two-letter country code.
l	Contains the name of a locality, such as a city, county or other geographic region.
st	Contains the full name of a state or province.
street	Contains the physical address of the object to which the entry corresponds, such as an address for package delivery.
o	Contains the name of an organization.
ou	Contains the name of an organization unit.
title	This attribute contains the title, such as "Vice President", of a person within an organization.

The attribute types are used to create search filters. There are six types of basic search filters and the syntax of the filters is in the <attribute><operator><value> format. Complex search filters can easily be constructed by combining these basic search filters and other complex filters using the Boolean operations AND, OR and NOT. The six basic filter components are presented in the table below:

Filter Type	Format	Example	Matches
Equality	(<attr>=<value>)	(sn=Smith)	Surnames exactly equal to Smith.
Approximate	(<attr>~=<value>)	(sn~=Smitt)	Surnames approximately equal to Smitt (for example, that sounds like Smitt - note the misspelling).
Substring	(<attr>=<leading>]*<any>]*<trailing>])	(sn=*smith*)	Surnames containing the string "smith".
		(sn=smith*)	Surnames starting with "smith".

Filter Type	Format	Example	Matches
		(sn=*smith)	Surnames ending with "smith".
		(sn=s*mi*th)	Surnames starting with "s", containing "mi" and ending with "th".
Greater than or equal	(<attr>=<value>)	(sn>=Smith)	Surnames lexicographically greater than or equal to Smith.
Less or equal than	(<attr><=<value>)	(sn<=Smith)	Surnames lexicographically less than or equal to Smith.
Presence	(<attr>=*)	(sn=*)	All surnames.

Using the Boolean operators and a prefix notation, the basic filters can be combined to form more complex ones. The '&' character represents AND, the '|' character represents OR and the '!' character represents NOT. Here are some examples that explain how to do that:

Filter Type	Format	Example	Matches
AND	(&(<filter1>) (<filter2>) ...)	(&(sn=smith) (objectclass =person))	Entries with an object class of person and a surname exactly equal to Smith.
OR	((<filter1>) (<filter2>) ...)	((sn=smith) (cn=*smith))	Entries with a surname exactly equal to Smith or a commonname ending in "smith".
NOT	(&(!(<filter>)))	(&(!mail=*))	Entries without a mail attribute.

Note:

It is wise to create filters that sort out unwanted entries based on their object class. For example, in an address book, you might only want to retrieve entries of the "people" class, with the common name "John", leaving out computers called John. This could be achieved with the following filter: (&(objectclass=person)(cn=john))

Note:

The way you construct your filter will have a large impact on how fast the search is conducted. If you create a filter involving structures that the directory server can not evaluate efficiently, performance is likely to suffer. Apart from being familiar with the administrator and/or the inner workings of the server itself, only trial and error can tell you whether your filter is working efficiently or not.

Example searches Here are some advanced search examples:

Searched	Filter to use
All persons in Sweden.	<code>(&(objectclass=person)(c=SE))</code>
All entries at Axis independent of country, except the ones called Smith.	<code>(&(o=axis)(!(sn=smith)))</code>
All persons at Axis Marketing in Sweden.	<code>(&(objectclass=person)(c=SE)(o=axis)(ou=marketing))</code>
All persons with a common name containing "bert" at Axis Marketing or Sales.	<code>(&(objectclass=person)(cn=*bert*) ((ou=marketing)(ou=sales)))</code>

Meta Information DTD

(AXIS 7000 only) The DTD (Document Type Definition) is a specific definition of the rules and syntax that the DD (Document Description) file must follow. It contains the definition of the element hierarchy and relation between these elements in the hierarchy. When your XML document is processed, it is compared to its associated DTD to be sure that it is structured correctly and that all tags are correctly used.

You can download the DTD file from the internal web pages in the Troubleshooting section at [admin | support](#).

Meta Information DTD

Here follows the Meta Information DTD:

```
<?xml version="1.0" ?>
<!--=====
FILE:metadata.dtd
ROOT:MetaDataFile
DESCRIPTION:This file contains the DTD for the Meta
Data functionality. This functionality allows the
Administrator to define custom information that will
be required from the User at the moment of scanning.
This custom information can either be related to a
particular destination (for instance an Invoice
number when an invoice destination is selected) or
it can be requested regardless of the
destination.===== -->
<!-- =====
ENTITY:MD_DTD_VERSION
DESCRIPTION:This entity contains the version number
of this DTD.===== -->
<!ENTITY MD_DTD_VERSION "1.00">
<!-- =====
ENTITY:MD_DOMAIN
```

```

DESCRIPTION:This entity contains the domain of this
DTD.===== -->

<!ENTITY MD_DOMAIN "XML meta data">
<!-- =====
ELEMENT:MetaDataFile
PARENT:None
CHILD:AlwaysAsk (optional)
        Ask (zero or more)
ATTRIBUTES:None
DESCRIPTION:This element is the root element. It
allows the Administrator to define meta data that
will always be requested (gathered in the
"AlwaysAsk" section) regardless of the destination,
and meta data that will be requested only when a
particular destination is selected (gathered in the
"Ask"section).
===== -->
<!ELEMENT MetaDataFile (AlwaysAsk?, Ask*)>
<!ATTLIST MetaDataFile
Version CDATA #FIXED "&MD_DTD_VERSION;"
Domain CDATA #FIXED "&MD_DOMAIN;">
<!-- =====
PARENT:MetaDataFile
CHILD:MetaData (one or more)
        Output (optional)
ATTRIBUTES:None
DESCRIPTION:This element gathers the meta data that
is requested from the user regardless of the
destination. This does not imply that the different
meta data is required but just that it is not
destination dependent as the meta data gathered in
the "Ask" section is. For instance the Administrator
can always ask the User to identify himself. This is
not destination
dependent.===== -->

```

```

<!ELEMENT AlwaysAsk (MetaData+, Output?)>
<!-- =====

ELEMENT:Ask
PARENT:MetaDataFile
CHILD:When (one)
        MetaData (one or more)
        Output (optional)
ATTRIBUTES:None

DESCRIPTION:This element gathers the different meta
data that is Destination dependent. The Administrator
is able to specify the meta data which is to be
requested from the User on selecting a specific
destination (gathered in the "When" element). This
section also allows the Administrator to define the
specific format of the output for this set of
MetaData. For instance, the Administrator can ask for
an invoice number when the User selects the invoice
destination. He can also define a particular output
format that can easily be processed (by a database
for instance).===== -->
<!ELEMENT Ask (When, MetaData+, Output?)>
<!-- =====

ELEMENT:MetaData
PARENT:AlwaysAsk
        Ask
CHILD:Value (zero or more)
ATTRIBUTES:
Required:

This attribute is an enumerated value that defines if
the User must enter the MetaData (= "yes") or if it
can be skipped (= "no") or if it is hidden to the User
(= "hidden"). MetaData with the "Required" attribute
defined as "yes", is mandatory and must be entered

```

before the User can proceed with the scanning. MetaData with the "Required" attribute defined as "hidden", is useful when the administrator wants to define a default value that will help in processing the information entered by the User.

Id:

This attribute indicates the system and name the MetaData is known by. This identifier must be unique among all the MetaData elements.

Prompt:

This attribute contains the string that will be displayed on the LCD display when requesting this particular MetaData from the User. If the Administrator does not specify the text the User will be prompted with the "Id" attribute.

Label:

This attribute contains the output string when the Administrator has not defined an output format. If no labels are defined, the "Id" attribute will be used instead.

ErrorMessage:

This attribute contains the string that will be displayed when the value entered by the User does not match the "Pattern" attribute. If the Administrator does not specify this attribute, the default string "Incorrect value!" will be displayed instead.

DefaultValue:

This attribute contains the output string for when the MetaData is not required and not entered by the User (attribute "Required" equal "no") or hidden (attribute "Required" equal "hidden"). The default value for this attribute is the empty string.

Pattern:

This attribute contains the regular expressions that describe the expected format in the value entered by the User. For more details on the Regular Expression syntax see the User's Manual. The default value for this attribute is the match-everything pattern (".*").

Editable:

This attribute is an enumerated value that defines if the User is allowed to enter a value different from the one purposed in the list of value defined for this Meta Data. The User will be allowed if the attribute is set to "yes" and will not be if the attribute is set to "no"

DESCRIPTION: This element contains the information specific to the meta data itself. See the attribute descriptions for more details.===== -->

```
<!ELEMENT MetaData (#PCDATA|Value)*>
```

```
<!ATTLIST MetaData
```

```
    Required (yes|no|hidden) "no"
```

```
    Id ID #REQUIRED
```

```
    Prompt CDATA #IMPLIED
```

```
    Label CDATA #IMPLIED
```

```
    ErrorMessage CDATA #IMPLIED
```

```
    DefaultValue CDATA #IMPLIED
```

```
    Pattern CDATA #IMPLIED
```

```
    Editable (yes|no) "yes">
```

```
<!--=====
```

```
ELEMENT:Value
```

```
PARENT:MetaData
```

```
CHILD:None
```

```
ATTRIBUTES:None
```

```

DESCRIPTION:This element contains a specific value
for a Meta Data. This allow the User to choose the
value of a certain Meta Data among several
value.===== -->
<!ELEMENT Value (#PCDATA)>
<!-- =====
ELEMENT:When
PARENT:Ask
CHILD:Destination (one or more)
ATTRIBUTES:None
DESCRIPTION:This element contains a list of the
different destinations that trigger the request of
the dependent MetaData elements from the User. When
one or more of the specified destinations is
selected by the User, the following MetaData will be
requested===== -->
<!ELEMENT When (Destination+)>
<!-- =====
ELEMENT:Destination
PARENT:When
        To
CHILD:None
ATTRIBUTES:Description:
This is the Id of the Destination. One restriction is
that the destination's description attribute must be
a valid destination description. This means that the
Administrator cannot define a new destination here.
DESCRIPTION:This element contains the description of
the defined destination===== -->
<!ELEMENT Destination (#PCDATA)>
<!ATTLIST Destination
Description CDATA #REQUIRED>
<!-- =====
ELEMENT:Output
PARENT:AlwaysAsk

```

Ask

CHILD:To (optional)

Format (optional)

ATTRIBUTES:FileName

This attribute indicate to the AXIS 7000 which template it should use in order to determine the remote file name. This template can contain references to Meta Data's Id, in order to create a file name that is created with the values entered by the User. This attribute overrides the value set for the Destination.

DESCRIPTION:This element contains the specific information for when the Administrator wants to specify a format different from the traditional one. The Administrator can also specify a destination for the output file. ===== -->

```
<!ELEMENT Output (To | Format | (To, Format))?>
```

```
<!--=====
```

ELEMENT:To

PARENT:Output

CHILD:Destination

ATTRIBUTES:None

DESCRIPTION:This element contains the particular destination to which the output file should be sent.===== -->

```
<!ELEMENT To (Destination)>
```

```
<!-- =====
```

ELEMENT:Format

PARENT:Output

CHILD:None

ATTRIBUTES:None

DESCRIPTION: This element contains the custom declaration that defines the output format defined by the Administrator for this specific destination.===== -->

```
<!ELEMENT Format (#PCDATA)>
```

The Parameter List

This table below displays the AXIS 7000 parameter list. The middle column shows applicable default values, and the right-hand column a brief description of the parameter. Some parameters may not be applicable in the AXIS 70/70U.

Important! The parameters are case dependent and must be entered exactly as in the table below.

Parameter name	Value	Description
Server]		
HardwareAddress	= 00:40:8c:18:02:3c	Specifies the AXIS 7000 hardware address which is equal to the serial number.
Date	= yyyy-mm-dd	Specifies the date in yyyy-mm-dd format
Time	= hh:mm:ss	Automatically specifies the time zone in which the AXIS 7000 operates using the Network Time Protocol (NTP). Time can also be set manually in hh:mm:ss format using the 24 hour clock. Note: The AXIS 7000 contains a real time clock which means that the time will be kept even if the power is turned off.
FactoryDefaults	= no	Set this parameter to <i>yes</i> to reset to factory default settings. Note that all current settings will be lost.
Restart	= no	Set this parameter to <i>yes</i> to restart the AXIS 7000.
TimeZone	= UTC	Specifies the time zone in which AXIS 7000 operates.
TimeSyncSource	= NTP	Specifies the time source for the AXIS 7000. Valid values are <i>NTP</i> , <i>Windows (SMB)</i> or <i>None</i> . Note: To use Microsoft Windows NT Network (SMB) properly WINS must be enabled and the Domain/GroupName parameter must be set to a valid name.
ServerPassword	= pass	Specifies the Server password. The Supervisor/Administrator will be prompted for this password when trying to access the AXIS 7000 for administration tasks. The password is used in basically all protocols, i.e. HTTP, SNMP and FTP. Once written to the configuration file, the password will be replaced by *'s, representing each letter of the password.
DefaultProfile	= Text	Specifies the default profile.
DefaultPaperSize	= letter	Specifies the default paper size.
TemporaryDestinations	= yes	Specifies if users are allowed to add temporary e-mail destinations.
TemporaryProfiles	= yes	Specifies if users are allowed to add temporary profiles.
WebScanning	= yes	Specifies if users are allowed to use the Scan Document facility. Scan Document means that the user places a document in the scanner device, and then displays or saves the image via the AXIS 7000 Web browser interface.

Parameter name	Value	Description
SpecifySender	= no	Specifies if users are allowed to specify the sender when scanning from the AXIS 7000 control panel.
FrontPanelConfiguration	= yes	Specifies if user may configure network settings from the control panel.
PDFRotation	=no	If enabled, this option allows the user to place the document long-edge first in the document feeder regardless if you are scanning or copying.
SpecifyFileName	=no	If enabled, this option allows the user to change the file name for an FTP destination or e-mail destination.
SpecifySubject	=yes	If enabled, this option allows the user to enter a subject in the subject field.
QuickDestination		Specifies an e-mail address to be associated with the F9 key on the external keyboard (if connected)
IP]		
InternetAddress	= 0.0.0.0	Specifies the AXIS 7000 IP address, which must be a unique and valid address to prevent conflicts with other network devices.
DefaultRouter	= 0.0.0.0	Specifies the IP address for the default router. All traffic directed outside the local network (according to the NetMask) is sent to the default router. Any re-routing via other routers is done automatically. The default <i>0.0.0.0</i> indicates that no default router is set.
NetMask	= 0.0.0.0	Specifies the subnet mask used for determining whether the traffic should stay within the network or be sent via a router. For example, the normal class C mask is 255.255.255.0. The default <i>0.0.0.0</i> indicates that automatic router sensing is used.
BOOTPEnable	= yes	Enables/Disables BOOTP for setting the IP address.
DHCPEnable	= No	Enables/Disables DHCP for setting the IP address.
RARPEnable	= yes	Enables/Disables RARP for setting the IP address.
DomainName	= company.se	Specifies the name of the domain to which the AXIS 7000 belongs. Domain refers to a set of computers on a network that have been assigned a group name. A domain might contain two or more workgroups.
PrimaryDNS	= 0.0.0.0	Specifies the IP address of the primary DNS server. Used e.g. for setting up of destinations with names instead of IP addresses.
SecondaryDNS	= 0.0.0.0	Specifies the IP address of the secondary DNS server, should the primary be unavailable or disconnected.
NTPServer	=0.0.0.0	Specifies the name or IP address of the NTP server used for time synchronization.
EnableWINS	=yes	Specifies if WINS is enabled
PrimaryWINSserver	=0.0.0.0	Specifies the name or IP address of the server
SecondaryWINSserver	=0.0.0.0	Specifies the name or IP address of the server
ProtectIP	=Off	If enabled, the IP address cannot be changed from the control panel using the Menu button
HTTP]		

Parameter name	Value	Description
ExternalLink	=www.company.name	Specifies the URL to a customized link, e.g. to your company's web site. The link will be available from the AXIS 7000 Web browser interface.
ExternallImage	=	Specifies the URL to the image that will indicate the customized external link.
SMB]		
ServerName	=AXISCD0000	The server name in the SMB environment. Default is <i>AXIS<nnnnnn></i> where <i>nnnnnn</i> are the last six digits of the serial number.
Domain/GroupName	=	Name of the AXIS 7000 workgroup in SMB. If not specified, the AXIS 7000 will appear in the workgroup that comes first in alphabetical order.
NTDomainInstallation	=no	Set to <i>yes</i> when you want to install the AXIS 7000 in an NT domain.
SNMP]		
GetCommunityName	= public	Specifies the community that has read only access to all supported SNMP objects except WriteCommunity, SupervisorPassword and ftpPassword. It corresponds to the ReadCommunity SNMP object.
TrapDestination	= 0.0.0.0	Specifies the IP Address which SNMP traps are sent to. It corresponds to the TrapAddress SNMP object. Default is <i>0.0.0.0</i> , which means that all SNMP traps are disabled.
TrapCommunityName	= public	Specifies the community for all generated SNMP traps. It corresponds to the TrapCommunity SNMP object.
SystemContact	=	Optional entry which should be in plain text and may be used to show the name of the system contact person.
SystemName	=	Optional entry which should be in plain text and may be used to show the name of the system.
SystemLocation	=	Optional entry which should be in plain text and may be used to show the location of the system.
AuthenticationTrap	= disabled	Enables or disables the SNMP authentication failure traps. It corresponds to the snmpenableAuthenTraps (MIB-II) SNMP object.
Clients]		
InformationLevel	= Basic	Specifies the default amount of information to be transmitted with a scanned image. If not set for a destination, this setting will be used. Valid values are <i>Nothing</i> , <i>Basic</i> or <i>Complete</i> . <i>Basic</i> includes information about the AXIS 7000, the connected scanner device, the parameter settings used when scanning etc. <i>Complete</i> also includes the image-related profile settings.
FTPDefaultUser	= anonymous	If not set for a destination, this username will be used.
FTPDefaultPassword	= AXIS_7000@any.com	If not set for a destination, this password will be used. This field can also contain the identity of the user transmitting the scanned image. This is useful for administrative purposes.

Parameter name	Value	Description
FTPDefaultFileName	= img%3i.%e	If no file name has been assigned to the transmitted file, this name will be used. In the default file name, <i>img%3i.%e</i> , %3i means a 3-digit number and %e means the file extension, e.g. <i>img001.tif</i>
SMTPReplyAddress	=	Specifies the e-mail address of the person responsible for the administration of the AXIS 7000. Note: Be sure to configure the AXIS 7000 with a valid SMTP reply address.
SMTPSubject	= A scanned image	Specifies the text that will appear on the Subject line of the e-mail containing the scanned image.
SMTPSendBcc	=no	Specifies the option to send a Bcc (blind carbon copy).
SMTPBccAddress	=name@example.com	Specifies the e-mail address of the recipient of the Bcc (blind carbon copy).
URL FTP Server	=	Specifies the IP address of the FTP server on which the scanned image will be stored.
URL FTP User	=	Specifies the user name for logging on the FTP server.
URL FTP Password	=	Specifies the password for logging on to the FTP server
URL Directory	=	Specifies the directory on the FTP server where the image will be stored.
URL	=	Specifies an external URL to the specified directory, e.g. <i>http://www.company.com/documents/filename</i> or <i>ftp://ftp.company.com/documents/filename</i> . This could be necessary when scanning to destinations outside your own company. If left blank, the URL will be constructed from the other fields.
Use URL as default	= no	Specifies the option to send the image as a hyperlink to the location where the image is stored.
FTPDefaultInfoFileExtension	=txt	Specifies the option to define the extension of the Information File.
SMTPBodyTextLevel	=nothing	Specifies the selected e-mail body text (nothing, built-in or custom)
SMTPBodyText	=	Specifies the SMTP body text
SMTPSendDeliveryNotification	=no	
SMTPSendMessageNotification	=no	
SMTPSendCc	=no	
SMTPCcAddress		
SMTPAuthentication	=no	
SMTPAuthenticationAccount		
SMTPAuthenticationUser		
SMTPAuthenticationPassword		
SMTPAuthenticationProtocol		
International]		
Language	= U.S. English	Specifies the language used on the AXIS 7000 message display. Valid values are U.S. <i>English, German, French, Italian, Swedish and Spanish.</i>

Parameter name	Value	Description
Unit	= inches	Specifies the measurement units used, e.g. for paper sizes. Valid values are <i>inches</i> or <i>cm</i> .
Keyboard Layout	= U.S. English	Specifies the keyboard layout that is compatible with your external keyboard.
Address Book]		
Retrieve Method	= None	Specifies from where the address book will be retrieved. <i>None, FTP</i> or <i>LDAP</i> .
FTP Server	=	Specifies the name or IP address of the FTP server.
FTP User	=	Specifies the user name for logging on to the FTP server. If left blank, the FTPDefaultUser will be used.
FTP Password	=	Specifies the password for logging on to the FTP server. If left blank, the FTPDefaultPassword will be used.
FTP Directory	=	Specifies the directory on the FTP server where the file is stored.
FTP File Name	=	Specifies the name of the file on the FTP server.
LDAP Server	=	Specifies the name or IP address of the LDAP server.
LDAP Port	=389	Specifies the number of the TCP/IP port.
LDAP User	=	Specify the name for logging on to the LDAP server, e.g.cn=name, o=company name, c=country code. If left blank no authorization will be attempted.
LDAP Password	=	Specify the password for logging on to the LDAP server. If the User Field is left blank, this setting will be ignored.
LDAP Search Base	=	Specifies where to begin the search, e.g. <i>o=companyname, c=countrycode</i>
LDAP Name Field	= cn	Specifies the name of the field that contains the destination name.
LDAP Mail Field	= mail	Specifies the name of the field that contains the e-mail address.
LDAP Filter	=	Specifies an LDAP filter to reduce the length of the destination list, e.g. <i>(givenName=*)</i>
LDAP Reload Interval	=12	Specifies how often the external addresses are to be reloaded. The value is specified in whole hours and the default value is 12 hours.
SMTP]		
Primary Mail Server	=mail	Specifies the name or IP address of the SMTP mail server that provides the e-mail facilities for the AXIS 7000. If you are using DNS, specify the name. Otherwise, specify the IP address. E.g. <i>mail</i> or <i>mail.domain.com</i> or <i>192.36.253.80</i> .
Secondary Mail Server	=	Specifies the name or IP address of the secondary mail server, should the primary be unavailable or disconnected.
Connection Timeout	=10	Specifies time before connection time-out.
SMTP Port	=25	Specifies the SMTP Port number
Authentication]		
Authentication Method	=None	Specifies which authentication method is enabled.
Authentication TimeOut	=60	Specifies the time before automatic logout.

Parameter name	Value	Description
No mail fail	=yes	If enabled, the user will not be authenticated if the matching e-mail address is not found.
LDAP Server	=	Specifies the name or IP address of the LDAP server
LDAP Port	=389	Specifies the number of the TCP/IP port
LDAP Base DN		
LDAP User ID Field	=uid	Specifies the User ID field that contains the user ID / user name of the authenticated user, e.g. uid, userid=johnsmith
LDAP Search Base	=o=company name, c=country code	Specifies where to begin the search
LDAP Filter Field		
LDAP Name Field	=cn	Specifies the name of the field that contains the destination name
LDAP Mail Field	=mail	Specifies the name of the field that contains the e-mail address
Use LDAP Substring		Specifies whether the AXIS 7000 is to search for the e-mail address and common name attribute using a 'substring' search or an 'equal' search.
Meta Data]		
Retrieve Method	=None	Indicates whether the Meta Information functionality is used or not.
FTP Server	=myFTPserver.company.com	Specifies the name or IP address of the FTP server that holds the Meta Information file.
FTP User	=anonymous	Specifies the name used to log on to the server.
FTP Password	=*****	Specifies the password used to log on.
FTP Directory	=metadata4axis7000	The directory where the AXIS 7000 will find the Meta Information file.
FTP File Name	=axis7000.xml	Specifies the file that contains the Meta Information.
FTP Reload Interval	=12	Specifies the reload interval in hours.
AllowScanIfDownloadFail	=No	Specifies if the user is allowed to scan despite failing to retrieve the XML DD file from the FTP server.
SendMailIfDownloadFail	=yes	Specifies if the box is to send an e-mail to the Administrator if it fails to retrieve the XML DD file. The e-mail address is specified in Network Settings SMTP Reply Address
UseMetaDataForOneScanOnly		Specifies if the AXIS 7000 should reuse the values entered by the User for additional scanings.
Destinations]		
Clear List First	=no	
Destinations	= x	Specifies the number of destinations defined in the AXIS 7000.
Destination0	= <i>Destination name</i>	Specifies the name of the destination
Destination-name(FTP)]		
Description	=Descriptive name	Specifies the name of the file destination. This is the name that will appear in the destination list on the AXIS 7000 message display.

Parameter name	Value	Description
Transfer method	=Scan-to-e-mail (SMTP), Scan-to-e-mail (URL), Scan-to-file (FTP), Scan-to-Print (TCP) and Scan-to-print (LPD)	Specifies how the scanned image should be sent; that is by which protocol.
Destination	=Directory	Dependent upon the transfer method specified (above), defines either: the E-mail address of the e-mail recipient (SMTP), the directory for Scan-to-file (FTP), port number for Scan-to-print (TCP), or the print queue for scan to print (LPD).
Profile	=Text	
Server	=ftp.axis.se	Specifies the name or IP address of the FTP server that holds the file.
User	=name	Specifies the name used to log on to the server.
Password	=*****	Specifies the password used to log on.
File name	=FTPImage	Specifies the name of the file.
Index file	=no	Defines the option to store the sequence number on the FTP server.
Destination-name(URL)]		
Description	=name(URL)	Specifies the name of the file destination. This is the name that will appear in the destination list on the AXIS 7000 message display.
Transfer method	=Scan-to-URL (SMTP & FTP)	Specifies how the scanned image should be sent; that is by which protocol.
Destination	=name@company.com	Defines the E-mail address of the e-mail recipient (SMTP).
Destination-printer]		
Description	=printer	Specifies the name of the printer. This is the name that will appear in the destination list on the AXIS 7000 message display.
Transfer method	=Scan-to-print (LPD) Scan-to-print (TCP)	Specifies how the scanned image should be sent; that is by which protocol.
Destination	=Printer Queue	Defines the print queue for scan to print (LPD).
Information level	= Nothing, Basic or Complete	Specifies the amount of image information to be included with the image. Prints Date, time information to the destination printer if the value is set to something other than None. See also Clients] InformationLevel.
Server	=IP address or DNS name	Dependent on the destination type, specifies the IP address of the FTP server on which the scanned image will be stored, or the printer destination.
Resolutions	=75, 100, 150, 200, 300, 600, 1200	Specifies the resolution settings supported by the destination printer.
Paper sizes	=Executive, Letter, Legal, Ledger, A4, A3	Specifies the different paper sizes supported by the destination printer.
Duplex supported	=yes/no	Defines if the printer destination has duplex support; that is, capable of printing on both sides of the paper.

Parameter name	Value	Description
Duplex selection	=SingleSided, DoubleSided, AsScanned	Defines the printing format for the printer destination.
LPD Mode	=SingleDataFile, SplitSourceFile, BufferDataFiles, MultipleDataFiles	Specifies the LPD mode for the printer destination
Destination-name(SMTP)]		
Description	=Descriptive name	Specifies the name of the file destination. This is the name that will appear in the destination list on the AXIS 7000 message display.
Transfer method	=Scan-to-e-mail (SMTP)	Specifies how the scanned image should be sent; i.e. by which protocol.
Destination	=name@company.com	Defines the E-mail address of the e-mail recipient (SMTP).
Profile	=Text	
Subjects]		
Clear List First	=no	
Subjects:	=1	
Subject0:	Subject-A Scanned Image	
Subject-A Scanned Image]		
Description	A Scanned Image	Specifies the text that will be used in the subject field when scanning to e-mail destinations.
Profiles]		
Clear List first	= no	
Profiles	= 10	
Profile0	= Profile-Color high	
Profile1	= Profile-Color low	
Profile2	= Profile-Color PDF	
Profile3	= Profile-Gray high	
Profile4	= Profile-Gray low	
Profile5	= Profile-Text	
Profile6	= Profile-Text high	
Profile7	= Profile-Text low	
Profile8	= Profile-Text PDF	
Profile9	= Profile-Text/Photo	
Profile-Text]		
Description	=Text	Specifies the name of the profile. This is the name that will appear on the AXIS 7000 message display.
X-Resolution	= 300	Specifies the resolution to be used for scanning in dots per inch (dpi). Higher-resolution settings produce higher-quality scanning. However, your documents might take longer to scan. The resolutions available depend the capabilities of your scanner device.
Y-Resolution	= 300	Specifies the resolution to be used for scanning in dots per inch (dpi).

Parameter name	Value	Description
Data type	= Black & White	Specifies data type depending on the material you are scanning and the imaging application you intend to use.
Paper size	=Executive, Letter, Legal, Ledger, A4, A3	Specifies the default paper size for this profile.
Paper orientation	= Portrait	Specifies how the document should be scanned.
Image compression	=CCITT G.4	Specifies the image compression
File format	=JFIF	Specifies the file format.
Double-sided	= Off	Specifies whether the scanner device should scan the document on both sides of the paper. This feature is only available for digital copiers/scanners that support duplex scanning.
Document mode	=Multi page	Specifies if several separate images can be scanned and sent in the same file.
Intensity	= 50	Specifies the level of intensity.
Contrast	= 50	Specifies the level of contrast. The contrast is the tonal gradation between the highlights, midtones and shadows in an image.
Image enhancement	=none	Specifies the type of image enhancement.
Paper sizes]		
Clear List first	= no	
PaperSizes	= 14	Specifies the number of paper sizes defined in the AXIS 7000.
PaperSize0	= PaperSize-A3	
PaperSize1	= PaperSize-A4	
PaperSize2	=PaperSize-A5	
PaperSize3	= PaperSize-B4	
PaperSize4	= PaperSize-B4(JIS)	
PaperSize5	= PaperSize-B5	
PaperSize6	= PaperSize-B5(JIS)	
PaperSize7	= PaperSize-Business Card	
PaperSize8	= PaperSize-Executive	
PaperSize9	= PaperSize-Ledger	
PaperSize10	= PaperSize-Legal	
PaperSize11	= PaperSize-Letter	
PaperSize12	= PaperSize-Photo 3.5"x 5"	
PaperSize13	= PaperSize-Photo 4"x 6"	
PaperSize-A3]=		
Description	=A3	Specifies the name of the paper size. This is the name that will appear on the AXIS 7000 message display.
Width	=11.69 inches	Specifies the width of the paper.
Length	=16.54 inches	Specifies the length of the paper.
PDF Rotation	=No	Enables/Disables PDF rotation
Meta Information]		

Parameter name	Value	Description
Retrieve Method	=None	Indicates whether the Meta Information functionality is used or not.
FTP Server	=myFTPserver.company.com	Specifies the name or IP address of the FTP server that holds the Meta Information file.
FTP User	=anonymous	Specifies the name used to log on to the server.
FTP Password	=*****	Specifies the password used to log on.
FTP Directory	=metadata4axis7000	The directory where the AXIS 7000 will find the Meta Information file.
FTP File Name	=axis7000.xml	Specifies the file that contains the Meta Information.
FTP Reload Interval	=12	Specifies the reload interval in hours.
ImageEnhancements]		
Clear List First	=No	
ImageEnhancements	= 3	Specifies the number of image enhancement profiles defined in the AXIS 7000.
ImageEnhancement0	=ImageEnhancement - DTC	
ImageEnhancement1	=ImageEnhancement - IPC	
ImageEnhancement2	=ImageEnhancement - Static Threshold	
ImageEnhancement - DTC]		
Description	=DTC	Specifies the name of the image enhancement profile. This is the name that will appear on the AXIS 7000 message display.
Enhancement Type	=Fujitsu DTC	Specifies the type of image enhancement
Gamma	=Sharp	Specify image processing parameters to improve image quality
White Level Follower	=Auto	
DTC Scan Mode	=Image	See descriptions in manual or help files
DTC Curve	=Image Darkest	
DTC Gradation	=Ordinary	
DTC Smoothing	=Image	
DTC Filtering	=Ball-Point Pen	
DTC Equal to	=Black	
DTC Noise Removal	=Off	
ImageEnhancement - IPC]		
Description	=IPC	Specifies the name of the image enhancement profile. This is the name that will appear on the AXIS 7000 message display.
Enhancement Type	=Fujitsu IPC	Specifies the type of image enhancement
Gamma	=Default	Specify image processing parameters to improve image quality
White Level Follower	=Auto	
Emphasis	=No	See descriptions in manual or help files
Mirror	=On	
Threshold Variance	=4	
Automatic Separation	=On	

Parameter name	Value	Description
ImageEnhancement - Static Threshold]		
Description	=Static Threshold	Specifies the name of the image enhancement profile. This is the name that will appear on the AXIS 7000 message display.
Enhancement Type	=Fujitsu Static Threshold	Specifies the type of image enhancement
Gamma	=Sharp	Specify image processing parameters to improve image quality See descriptions in manual or help files
White Level Follower	=Disable	
Emphasis	=Smoothing	
Mirror	=On	
Outline Extraction	=On	
Automatic Separation	=On	

Updating the Software

The system software for your Document Server is stored in a resident flash memory chip that, like ordinary ROM memory, keeps its contents even when the power is turned off. Flash memory is unique because its contents can be erased and re-written.

This means that new system software can be easily loaded into your Document Server over the network using FTP as soon as it becomes available. Instructions on how to update the system software are provided within this section.

Obtaining the Updated System Software

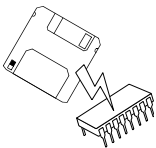
Your Dealer Contact your dealer to check if there have been any new issues of the software. You should have your present version numbers ready to compare against the latest software issues from Axis.

Axis Web Site Check the Axis web site at <http://www.axis.com> where you can download the latest versions of the software.

Anonymous FTP You can also get files and information through anonymous ftp: log in to <ftp.axis.com> and go to the `/pub/axis/` directory.

Updating the Flash Memory

Before you begin:



To upgrade over the network you will need the following:

- The file with the new Document Server software, where the name file name is in the form product-version.bin, i.e. 7000_224.bin for software release 2.24
- A computer on the network with TCP/IP and FTP.
- It is recommended that you make a backup copy of your current config.ini file before updating.

Follow these steps to upgrade the Document Server software:

1. Log in to the Document Server with the command `ftp <Internet address>` where `<Internet address>` is the name or Internet address assigned to the Document Server.
2. You will be prompted for user id and password. Use the user id `root` which has the default password `pass`.
3. Issue the command `bin` to change to binary transfer mode.
4. Issue the command `put <software name> flash` where `<software name>` is the name of the new software, e.g. `7000_224.bin`.
5. During the flash load, the Document Server LCD will display the message "Updating server" and a progress bar. Wait for the flash load to finish. This normally takes 1 to 4 minutes. The unit will then automatically restart with the new Document Server software.

Caution

Be careful not to interrupt the upgrade process. If the upgrade is interrupted, try again. If this is unsuccessful, the Document Server may have to be re-initialized by your dealer.

6. Log out using the command `quit`, `bye` or `exit` depending on your FTP version.

Notes:

- If you are using a window-based FTP client application such as `Ws_ftp` or `Fetch`, you must rename the new file `<software file>` to `flash` before downloading.
- Downgrading to a software version lower than 2.22 is not possible if the current software version is 2.22 or above (AXIS 7000 only).

Technical Specifications

<u>Supported Systems</u>	<p>Systems supporting TCP/IP, Line Printer Daemon (LPD), Hypertext Transfer Protocol (HTTP) client (Web browser), and at least one of these protocols:</p> <ul style="list-style-type: none">• (Document Server) Simple Mail Transfer Protocol (SMTP) server• (AXIS 7000) File Transfer Protocol (FTP) server
<u>Supported Web Browsers</u>	<ul style="list-style-type: none">• Netscape Navigator 4.0 or higher• Microsoft Internet Explorer 4.0 or higher• HTTP 1.0+ and HTML 3.0+ compatible Web browsers
<u>Supported Protocols</u>	<p>All models - HTTP, IP, FTP, SMTP, TCP, ARP, RARP, BOOTP, DHCP, ICMP, SNMP, UDP, LDAP, NTP, WINS, SMB</p> <p>AXIS 7000 only- LPD, Reverse Telnet, SLP</p>
<u>Supported Devices</u>	<p>If supported, the Document Server automatically senses the brand and model of the attached scanner device, without any user intervention. Scanner devices with built-in compression provide optimum performance.</p> <p>Supported scanners and digital copiers:</p> <p>Avision, Bell+Howell, Canon, Epson, Fujitsu, Gestetner, Hewlett Packard, Infotec, Kodak, Lanier, Nashuatec, Océ, Rex Rotary, Ricoh, Savin, Sharp, UMAX</p> <p>For a detailed list of supported scanners and digital copiers, check the Document Server support pages at http://www.axis.com or contact your local dealer.</p>
<u>Device Connection</u>	<p>SCSI-2 (AXIS 70 / AXIS 7000)</p> <p>USB 1.1 (AXIS 70U)</p>
<u>Supported Printers</u>	<p>AXIS 7000 - TCP/IP with Raw TCP or LPD printing supported.</p>

<u>Supported LDAP Server Software</u>	<ul style="list-style-type: none"> • Microsoft Exchange 5.x, 2000 • Lotus cc: Mail 8.2, Domino • Novell GroupWise 5.2, 5.5 • Netscape iPlanet • OpenLDAP
<u>Supported Image Formats</u>	<p>Document Server - Adobe PDF 1.2: The created PDF file contains compressed or uncompressed bit images in CCITT G.3/G.4 packbits or JPEG (24 bit) formats</p> <p>AXIS 7000 - TIFF 6.0: CCITT G.3 and G.4 for bilevel images, Packbits for grayscale images; both single- and multi-page images are supported</p> <p>AXIS 7000 - JPEG File Interchange Format (JFIF) for single-page color (24 bit) or grayscale (8 bit) images.</p> <p>AXIS 7000 - PCL 5, TIFF 4.0 and PackBits for grayscale images</p>
<u>Control Panel</u>	<p>Alphanumeric LCD display with 2 rows by 16 characters, side-scrollable by 40 characters. English, German, French, Spanish, Italian and Swedish text available.</p> <p>4 LED indicators signaling Status, Busy, Network, and Power.</p> <p>7 keys for Menu, Up, Down, Select, Send, Add, and Cancel.</p> <p>Menu for selecting Destination, Profile, Paper size, Subjects, Number of Copies, Double-sided, Sender, Meta Information and File name. Multiple selection of destinations is possible. Error log.</p>
<u>Installation</u>	<p>IP address set from control panel, PC compatible keyboard (not supplied as standard), or using ARP, RARP, BOOTP or DHCP. E-mail and file destinations, the destinations established via Web browser, PC compatible keyboard, or downloaded via LDAP or from an FTP server.</p>
<u>Network Management</u>	<p>Configuration and Administration via a Web browser. SNMP MIB-II</p>
<u>Security</u>	<p>Administrator's login for configuration and administration.</p>

Administrator specifies which destinations should be accessible and whether users are allowed to add temporary e-mail destinations.

Possible to set a default destination (and optionally no other) for fixed application use.

AXIS 70/70U/7000 - Windows NT4 authentication

AXIS 70/70U/7000 - SMTP authentication

AXIS 7000 - LDAP authentication

Number of Destinations

Depending on the length of the addresses, the Administrator can define approximately 1500 destinations within the Document Server; the maximum number is generally limited by the User Storage Area. LDAP destinations are limited only by available RAM memory.

Software Updates

Flash memory allows central and remote updating of the Document Server software over the network using FTP.

Hardware

CPU: 32 bit RISC Controller (AXIS ETRAX 100LX)
Flash memory: 2 Mbytes
RAM: 16 Mbytes

Logical Connection

IEEE 802.2, IEEE 802.3, SNAP and Ethernet II frame types simultaneously.

Network Connectors

10baseT (twisted pair) and 100baseTX for Fast Ethernet.

Optional Accessories

(AXIS 70 / AXIS 7000 only):

SCSI cable: 50 pin high-density shielded (micro-D)
SCSI cable: 50 pin high-density shielded to 50 pin shielded low-density (Centronics)

Power supply

:
(revision 3) 5.1 V, 2A, via external power unit (PS-H)
(revision 2) 12V DC, 13.6 VA, via external power unit (PS-E)

Dimensions Height: 1.7 in (4.3 cm)
 Width: 5.9 in (14.9 cm)
 Depth: 8.8 in (22.4 cm)

Weight 1.5 lbs (0.7 kg)

Environmental Temperature: 40-105°F (5-40°C)
 Humidity: 20-80% RHG, noncondensing

Approvals

EMC: FCC:
 Part 15 Subpart B, Class B
 CE:
 EN 55022 1998 Class B
 EN 55024 1998
 EN 61000-3-2 2000
 EN 61000-3-3 1995+A1:2000
 VCCI:
 Class B
 C-Tick
 AS/NZS 3548

Safety: EN 60950

Warranty Warranty Sheet included in the package

All specifications are subject to change without prior notice.

Glossary

- ADF** Automatic Document Feeder
- AIX** Advanced Interactive eXecutive. A version of the UNIX operating system from IBM that runs on various IBM computers including Mainframe systems
- ARP** Address Resolution Protocol. A protocol within TCP/IP networks that allows a host to find the physical address of a node on the same network
- Bcc** Blind Carbon Copy. Send a copy to the entered Bcc address but do not indicate to the recipient that you have sent this copy.
- BOOTP** Boot Protocol. A TCP/IP protocol, which allows an Internet node to discover certain startup information such as its IP address
- BSD** Berkeley Software Distribution. The University of California, Berkeley additions to the UNIX operating system
- CCITT G.4** The most common format for compressed TIFF files. Used for viewing and archiving of scanned documents
- CMIP** Common Management and Information Protocol
- DD** Document Description.
- DTC** Dynamic Threshold Curve. Image enhancement type (see IPC)
- DTD** Document Type Definition. A specific definition of the rules and syntax that the DD (Document Description) file must follow
- DHCP** Dynamic Host Configuration Protocol. A system based on network interface card addresses, which is used to allocate IP addresses and other configuration information for networked systems
- dither** A method to obtain a rasterized effect for pictures, especially scanned photos

- DNS** Domain Name System. A hierarchical naming system that uses a combination of text names separated by periods to create a unique name
- DSN** Delivery Status Notifications. A method used to confirm the delivery of e-mails
- duplex** A scanner/printer with the capability to scan/print both sides of a page simultaneously
- FTP** File Transfer Protocol. The TCP/IP protocol used for transferring files between computers on a network
- HTML** Hypertext Markup Language. A standard hypertext language used to create web pages and other hypertext documents
- HTTP** Hypertext Transfer Protocol. The TCP/IP protocol for web based communication, e.g. Web browsers
- IP** Internet Protocol. The TCP/IP session-layer protocol that regulates packet forwarding by tracking IP addresses, routing outgoing messages, and recognizing incoming messages
- IPC** Image Processing Circuit. Used to capture text on a colored background or from poor quality originals
- JFIF** JPEG File Interchange Format. Format for storing bitmap images
- JPEG** Joint Photographic Experts Group. Compression type for color and greyscale bitmap images
- LCD** Liquid Crystal Display
- LDAP** Lightweight Directory Access Protocol. A protocol for accessing on-line directory services
- LPD** Line Printer Daemon. A protocol for network printing
- LED** Light Emitting Diode
- Meta** An underlying definition or description

- MDN** Message Disposition Notification. A method used to confirm the delivery of e-mails
- MIB** Management Information Base. A database of network configuration information used by SNMP and CMIP to monitor or change network settings
- Mini-DIN PS/2** Connector used on a PC to connect a keyboard. If your keyboard has a DIN connector, a DIN to Mini-Din adapter can be used
- MIME** Multipurpose Internet Mail Extension. Enables transmission of e-mail containing non-English characters as well as attachments such as image files
- NIS** Network Information Services. The security and file-access databases on UNIX systems, previously known as Yellow Pages
- NTP** Network Time Protocol. A protocol to get time from a timeserver (NTP-server). To get a time when a message was stored in the event log, a NTP server must be specified
- OCR** Optical Character Recognition. A technology that converts scanned documents into editable and searchable text
- PDF** Portable Document Format. A format for cross-platform distribution of electronic documents. Can be viewed by anyone that has Acrobat Reader from Adobe installed
- RARP** Reverse Address Resolution Protocol. A TCP/IP protocol governing the translation of a Data-Link Control (DLC) address to an IP address
- RISC** Reduced Instruction Set Computing. A processor that recognizes only a limited number of assembly-language instructions
- SCSI** Small Computer System Interface. A high-speed parallel interface, used to connect a computer to peripheral devices using just one port
- SMTP** Simple Mail Transfer Protocol. The TCP/IP protocol for exchanging e-mail
- SNMP** Simple Network Management Protocol. A TCP/IP protocol used to manage and monitor nodes on a network

- TCP** Transmission Control Protocol. The connection-oriented, transport-level protocol used in the TCP/IP suite of protocols
- TIFF** Tagged Image File Format. Format for storing bit-mapped images. Typically used for scanned documents and uncompressed images
- UNIX** A 32-bit multitasking, multiuser operating system originally developed by AT&T
- URL** Uniform Resource Locator. A way of specifying the location of publicly available information on the Internet
- USB** Universal Serial Bus. A plug-and-play interface between a computer and peripheral devices (scanners, printers etc)
- UTC** Universal Time Coordinated
- WINS** Windows Internet Name Service
- XML** Extensible Markup Language. Describes how to define a collection of data. Sometimes referred to as metadata
- YP** Yellow Pages. The security and file-access databases on UNIX systems. These databases are now known as Network Information Services

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