Viisage iA-thenticate® 4.1



Administrator's Guide

Viisage iA-thenticate 4.1 Administrator's Guide

Copyright ©2005 by Viisage Technology, Inc. 296 Concord Road, Billerica, MA 01821 USA Phone 978-932-2200, fax 978-932-2225, web www.viisage.com

All rights reserved.

Unpublished rights reserved under the copyright laws of the United States.

Viisage, the Viisage logo, iA-thenticate, BorderGuard, iA-Passport, iA-DataPort, iA-Examiner, iA-License, TextWatch, and iA-Administrator are trademarks or registered trademarks of Viisage Technology, Inc. All other brand and product names are trademarks or registered trademarks of their respective companies or organizations.

Covered by one or more U.S. and foreign patents including U.S. Patent No. 6,269,169.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by Viisage for compliance could void the user's authority to operate the device.

Safety Guidelines: Follow these safety guidelines to protect your iA-thenticate system from damage and to ensure your own safety.



WARNING: Do not attempt to disassemble the iA-thenticate unit or to operate it with any parts removed. The unit contains no user-serviceable parts.

Operate iA-thenticate only in an area where the temperature is between 50° F and 105° F (between 10° C and 40° C).

Do not spill food or liquids on the iA-thenticate unit. If the unit gets wet, immediately shut down the system and contact Visage. Do *not* attempt to open the unit. Only a qualified iA-thenticate technician should perform service and repair work.

Do not set anything on top of the iA-thenticate unit or cables. Route all cables so that people will not step or trip on

Use a surge-protection power strip to protect iA-thenticate against electrical damage, as you would with any computer.

The information contained in this document is subject to change without notice. Viisage assumes no responsibility for technical or editorial errors or omissions, or for the use of this material. Nor does Viisage make any commitment to update the information contained in this document. This document contains proprietary information that is protected by copyright. All rights reserved. No part of this document may be photocopied or reproduced in any form without the prior written consent of Viisage.

Edition: IA-ADMIN-4.1, 12/05 Publication number: PUB-00052-A-11

Table of Contents

Part One Setting Up a New iA-thenticate Unit

| 1 | Introduction to iA-thenticate | 1-1 |
|---|---|-----|
| | Hardware Configurations | 1-1 |
| | Basic Setup Options | 1-2 |
| | Full-Featured Document Security Workstation | 1-2 |
| | Compact, Self-Contained Unit | |
| | Setting Up iA-thenticate | |
| 2 | Setting Up Standard Monochrome iA-thenticate | 2-1 |
| | PC System Requirements for a Monochrome Unit | |
| | Installing Software | |
| | Setting the PC's Taskbar and Display Properties | |
| | Installing the iA-thenticate Security Software | |
| | Installing iA-Administrator | |
| | Installing iA-Examiner | |
| | Installing the Custom Calibration File | |
| | Installing Optional Software | |
| | Installing Hardware | |
| | Installing the PCI Card | |
| | Connecting the iA-thenticate Cables | |
| | Finishing Installation | |
| | Starting Up and Checking Installation | 2-6 |
| | Configuring Internet Explorer | |
| | Configuring a French Version of Windows | |
| | Controlling Access | |
| | Creating Local User Groups and Users | 2-8 |
| | Assigning File and Folder Permissions | |
| | Installing a Bar Code and Magstripe Reader | |
| | What's Next? | |

| 3 | Setting Up Standard Color iA-thenticate | 3-1 |
|---|---|------|
| | PC System Requirements for a Color Unit | 3-1 |
| | Software Installation | 3-2 |
| | Setting the PC's Taskbar and Display Properties | 3-2 |
| | Installing DirectX | 3-3 |
| | Installing the iA-thenticate Security Software | 3-3 |
| | Installing iA-Administrator | 3-3 |
| | Installing iA-Examiner | 3-4 |
| | Installing the Custom Calibration File | 3-4 |
| | Installing Optional Software | |
| | Hardware Installation | |
| | Connecting the iA-thenticate Unit | |
| | Finishing Installation | |
| | Starting Up and Installing Drivers | 3-5 |
| | Checking the Camera Driver | |
| | Configuring the Camera Port | |
| | Configuring a Smart-Card Unit | |
| | Configuring Internet Explorer | |
| | Configuring a French Version of Windows | |
| | Controlling Access | |
| | Creating Local User Groups and Users | |
| | Assigning File and Folder Permissions | |
| | Installing a Bar Code and Magstripe Reader | |
| | What's Next? | 3-11 |
| 4 | Setting Up Monochrome iA-thenticate Plus | 4-1 |
| | Connecting Cables | 4-1 |
| | Starting Up and Logging On | 4-3 |
| | Installing Optional Software | |
| | Controlling Access | 4-3 |
| | Users and Groups | 4-3 |
| | Full-Featured Document Security Workstation | |
| | Compact, Self-Contained Unit | 4-4 |
| | Installing a Bar Code and Magstripe Reader | 4-5 |
| | What's Next? | 4-5 |
| 5 | Installing a Bar Code and Magstripe Reader | 5-1 |
| | Installing the E-Seek Intelli-Check Serial Reader | |
| | Installing the E-Seek Intelli-Check USB Reader | |
| | Connecting the Reader | |
| | Installing the Drivers | |
| | Finding Driver Files | |
| | Configuring iA-Examiner | |

Part Two Configuring and Managing iA-thenticate

| 6 | Using the Administration Tools | 6–1 |
|---|---|------|
| | iA-Administrator | 6-2 |
| | iA-Examiner | 6-3 |
| | What's Next? | 6-5 |
| 7 | Configuring iA-thenticate | 7–1 |
| | Viewing Unit Information | 7-2 |
| | Setting Options for Basic Operation | 7-3 |
| | ICAO Expiration Test | 7-3 |
| | Signals and Alerts | 7-4 |
| | Startup | 7-4 |
| | Hardware | 7-5 |
| | Advanced | 7-6 |
| | Setting Options for Saving Images and Logs | 7-8 |
| | Two Ways to Save Images and Logs | |
| | Captured Images | 7-10 |
| | Document Results Log | 7-10 |
| | Saving Based on Test Results | 7-11 |
| | JPEG Image Quality | |
| | Temporary Images and Logs | 7-12 |
| 8 | Configuring iA-Examiner | 8-1 |
| | System Configuration Screens | 8-1 |
| | Configuring Peripherals | 8-2 |
| | Configuring Driver's License Processing | 8-3 |
| | Configuring Printing | 8-4 |
| | Configuring Data Saving | 8-5 |
| | Data Saving Options | |
| | Using a Networked Database | 8-8 |
| | Configuring Tests | 8–10 |
| | Configuring Document Processing | 8-12 |
| | Configuring Verification Databases | |
| | About VerifyME | 8-14 |
| | Configuring VerifyME | 8-15 |
| | Configuring Data Entry | 8-16 |
| | Configuring a Custom ID Type | 8-17 |
| | Configuring Static Database Information | 8-17 |
| | Configuring Debugging | 8-18 |
| | Configuring Processing of Unidentified Documents | 8-18 |
| | configuring frocessing of officentifica bocuments | 0 10 |

| | Configuring Smart Card Options | 8-23 |
|----|--|-------|
| | About Basic Access Control | 8-23 |
| | Smart Card Options | 8-23 |
| | Configuring Examiner Doc Log Options | 8-24 |
| | Configuring System Directories | 8-25 |
| | Configuring Other Options | 8-26 |
| | Configuring Test Suppression | 8-27 |
| | Configuring Test Override Options | 8-27 |
| | Configuring Data Transmission Options | |
| | Configuring Credit Card Options | 8-29 |
| 9 | Managing iA-Examiner | 9-1 |
| | The System Management Screen | 9-1 |
| | Purging Saved Data | 9-2 |
| | Backing Up Saved Data | 9-3 |
| | Temporarily Disabling Verification Databases | 9-4 |
| 10 | Using iA-DataPort | 10-1 |
| | Preparing to Use iA-DataPort | |
| | Choosing Where to Send Data | |
| | Using the Optional Keyboard Filter | |
| | Starting iA-DataPort | |
| | Starting the iA-DataPort Utility | |
| | Running the Utility Minimized | 10-4 |
| | Viewing Captured Data | 10-5 |
| | Configuring Settings | 10-6 |
| | Configuring General Settings | 10-6 |
| | Configuring Communication Port Settings | 10-8 |
| | Configuring Data Format Settings | 10-8 |
| | Configuring MRZ Data Format Settings | 10-10 |
| | Configuring Data Transmit Settings | |
| | Configuring Display Settings | |
| | Configuring Startup Settings | |
| | Checking the Capture Devices | 10-14 |
| | | |

Appendixes

| A | Resetting the E-Seek Reader | A -1 |
|---|------------------------------|-------------|
| В | Periodic Maintenance | B- 1 |
| | Cleaning the Glass Platform | B- |
| | Cleaning the Sensor Switch | B-2 |
| | Defragmenting the Hard Drive | B-2 |

Part One

Setting Up a New iA-thenticate Unit

Introduction to iA-thenticate

iA-thenticate® is a hardware and software system for testing the authenticity of travel and ID documents and for checking the identity of document owners.

Basic document testing includes verifying the checksum digits in a document's machine-readable zone (MRZ), checking its expiration date, and confirming the proper use of IR-absorbent (B900) ink.

With optional software and hardware, iA-thenticate can test documents in additional ways and also check a document owner's identity. For example:

- ☐ With iA-Passport® software, iA-thenticate can verify additional features such as UV patterns and security laminate.
- □ With iA-License[™] and DL-Alert[™] software and a magnetic stripe and bar code reader, iA-thenticate can read and verify driver's licenses and nondriver IDs.
- ☐ With TextWatch® software, iA-thenticate can compare information read from the document against a custom database of names, stolen document numbers, or other important data.
- ☐ With an integrated smart card reader, iA-thenticate can read, verify, and cross-check information from an embedded smart chip.

Hardware Configurations

Note

Not all combinations of these configuration options are available.

iA-thenticate is available in several hardware configurations:

- ☐ With a monochrome or a color camera
 - A *monochrome* unit captures and displays grayscale images. The captured images are 768×576 pixels, 8 bits.
 - A *color* unit captures and displays full-color images. The captured images are 1280×1024 pixels, 24 bits. A color unit needs more processing power, memory, and disk space than a monochrome unit due to the larger images.

- ☐ With or without an integrated PC
 - An iA-thenticate *Plus* unit includes an integrated Windows® PC for running the iA-thenticate software and other Windows programs. It can also operate as a compact, self-contained unit without a keyboard, mouse, or monitor.
 - A *standard* iA-thenticate unit has no built-in processor but attaches to a host PC that runs the software. A monochrome unit connects through a PCI card, and a color unit connects through a USB port.
- ☐ With or without an integrated smart-card reader

A smart-card unit has an extended document platform and one or two antennas for reading chips embedded in the front and back pages (covers) of documents.

- A *dual-page* reader has two antennas for reading *both* front-page and back-page chips when you place documents in the usual way.
- A *single-page* reader has one antenna for reading *either* front-page or back-page chips, depending on the antenna location. It can also read a chip in the opposite page if you reposition the document during processing.

Basic Setup Options

You can set up each iA-thenticate or iA-thenticate Plus unit as a full-featured document security workstation. You can also set up iA-thenticate Plus as a compact, self-contained unit with no monitor, keyboard, or mouse.

Full-Featured Document Security Workstation

In a full-featured setup:

- ☐ You use a standard monitor, keyboard, and mouse (or touch screen) for interacting with the iA-thenticate software.
- ☐ Users log on just as they do with any Windows PC, with access privileges controlled by their accounts.
- ☐ You can use the workstation as a PC for running other Windows software in addition to iA-thenticate.

Compact, Self-Contained Unit

In a self-contained iA-thenticate Plus setup:

- ☐ You attach no monitor, keyboard, or mouse. Test results appear on the built-in text panel. (You do need a monitor, keyboard, and mouse for setup and configuration.)
- ☐ The unit starts up without requiring logon and automatically runs the iA-thenticate software.

Setting Up iA-thenticate

The next three chapters explain how to set up your iA-thenticate unit—installing software and hardware, connecting cables, logging on, and controlling access using Windows security features.

| To set up: | Go to: |
|---|---|
| Standard iA-thenticate, monochrome camera | Chapter 2, "Setting Up Standard Monochrome iA-thenticate" |
| Standard iA-thenticate, color camera | Chapter 3, "Setting Up Standard Color iA-thenticate" |
| iA-thenticate Plus, monochrome camera | Chapter 4, "Setting Up Monochrome iA-thenticate Plus" |

Note

iA-thenticate Plus is not currently available with a color camera.

The remaining chapters explain how to configure all the details of your system's operation.

Introduction to iA-thenticate

2

Setting Up Standard Monochrome iA-thenticate

This chapter explains how to install software and hardware, connect cables, and control access to your *standard* iA-thenticate unit with *monochrome* camera. Other chapters explain how to set up other kinds of units.

Before you proceed with installation, check the *Release Notes* for new information. If you are upgrading from a previous version, you may need to follow additional steps.

IMPORTANT

Setting up iA-thenticate requires the same skills as setting up a standard PC in a networked environment. If you are not an experienced installer and system administrator, you should not attempt to do the setup yourself.

Although setting up iA-thenticate is similar to setting up a PC, there are important differences. If you don't follow the instructions in this chapter carefully, your system may not work properly.

PC System Requirements for a Monochrome Unit

The standard iA-thenticate monochrome unit attaches to your Windows PC through a plug-in PCI interface card. You install the iA-thenticate software on your PC, and iA-thenticate then operates as a peripheral device. The result is a full-featured document security workstation that still has all the capabilities of the desktop PC.

To work properly with iA-thenticate, your PC must meet these requirements:

Hardware

□ Processor: 800 MHz Pentium 4 or better recommended
 □ RAM: 256 MB minimum
 □ Free disk space: 300 MB minimum; 1 GB or more recommended when saving captured images and data
 □ Video display: 1024x768 resolution, 65536 colors, or better
 □ An available PCI-bus master slot, 2.0-compliant, capable of supplying 1.2 A at 12 VDC

Configuration

☐ Swap file: Recommended 768 MB minimum and 1024 MB maximum for drive C and for the data drive (where you store captured images)

Supported operating systems

- □ Windows 2000 Service Pack 4 or higher with updates 823980 (Microsoft Security Bulletin MS03-026) and 828028 (Bulletin MS04-007)
- ☐ Windows XP Professional Service Pack 2

Other software requirements

☐ Internet Explorer 6.0 Service Pack 1 or higher with update 832894 (Microsoft Security Bulletin MS04-004)

Installing Software

Be sure to install the software before you install the PCI card and connect the iA-thenticate hardware.

Setting the PC's Taskbar and Display Properties

| Windows 2000 | Windows XP | |
|--|--|--|
| 1. Start the PC, log on as an administrator, and exit from all programs. | 1. Start the PC, log on as an administrator, and exit from all programs. | |
| Right-click the taskbar and choose Properties. | 2. Right-click the taskbar and choose Properties. | |
| On the Taskbar Properties screen, deselect Always on top and click OK. | 3. On the Taskbar Properties screen, deselect Keep the taskbar on top of other | |
| 4. Right-click the Windows desktop and | windows and click OK. | |
| choose Properties. | 4. Right-click the Windows desktop and | |
| 5. On the Settings tab, click Advanced. | choose Properties. | |
| 6. In the Font Size drop-down list, select Small Fonts if it is not already selected. | 5. On the Appearance tab, in the Font Size drop-down list, select Normal if it is not already selected. | |
| 7. Follow any further on-screen instructions for confirming your choice and installing fonts. You do <i>not</i> need to restart the system at this point unless Windows requires you to do so. | 6. Follow any further on-screen instructions for confirming your choice and installing fonts. You do <i>not</i> need to restart the system at this point unless Windows requires you to do so. | |

Installing the iA-thenticate Security Software

Windows 2000 and XP

Note

If you are upgrading, you

may see somewhat different

- 1. Mount the iA-thenticate CD.
- 2. On the CD, in folder 1_iA-thenticate, run Setup.exe.
- 3. On the first screen, click Next.
- 4. On the License Agreement screen, read the license and click Yes to agree.
- On the Setup Type screen, select iA-thenticate 4.1 for monochrome units and click Next.
- 6. On the iA-thenticate 4.1 Data Drive screen, if you do *not* have a separate E drive for storing data, change the Destination Folder by clicking Browse and choosing drive C (or a different drive reserved for data). Then click Next.
- 7. On the Current Settings screen, click Next.
- 8. On the Installation Complete screen, select No, I will restart my computer later and click Finish.

Installing iA-Administrator

Windows 2000 and XP

- 1. On the CD, in folder 2_iA-Administrator, run Setup.exe.
- 2. Proceed through the installer screens by clicking Next twice.
- 3. On the Installation Complete screen, select No, I will restart my computer later and click Finish.

Installing iA-Examiner

Windows 2000 and XP

- 1. On the CD, in folder 3_iA-Examiner, run Setup.exe.
- 2. On the first installer screen, click Next.
- 3. On the iA-Examiner Data Drive screen, accept the Destination Folder you chose earlier—or change it if you want to use a different location for data and images saved by iA-Examiner.
- 4. On the InstallShield Wizard Complete screen, click Finish.

Installing the Custom Calibration File

Each standard iA-thenticate unit comes with a matching SampleScan diskette containing a calibration file. You should not use this file with any other iA-thenticate unit.

Windows 2000 and XP

- 1. Make sure the serial number printed on the SampleScan diskette matches the serial number on the iA-thenticate unit.
- 2. Insert the SampleScan diskette, and copy the SampleScan.cfg file from the diskette to directory C:\BorderGuard\Config\.
- 3. Eject the diskette.

Installing Optional Software

- 1. If you have the optional DL-Alert™ feature, install it from the iA-thenticate CD:
 - a. In folder 4_DL-AlertIC, run DL-AlertIntelli-Check.exe.
 - b. Click Next and then Finish.
- 2. *If* you have other optional software such as iA-Passport or iA-License, install it now. Follow the instructions included with the optional software.

Installing Hardware

Install the software as described in the previous section before you install the hardware.

Use proper antistatic procedures for the following steps, grounding yourself with a wrist strap or carefully discharging static by touching the metal case of the power supply.

Installing the PCI Card

To install the PCI card into your PC:

- 1. Shut down the PC and disconnect the power and other cables.
- 2. Remove the PC's case to gain access to the PCI slots, following the instructions supplied by the PC manufacturer.
- 3. Remove the slot cover from an available PCI master slot.
- 4. Carefully align and insert the iA-thenticate PCI card into the slot, applying just enough pressure to seat it fully.
- 5. Replace the screw from the removed slot cover to secure the PCI card.
- 6. Replace the PC's case and reattach its cables. *Do not start the PC* until you connect the iA-thenticate cables as explained next.

2-4

Note

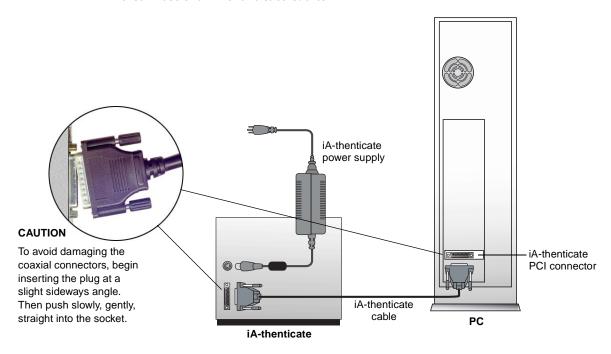
This release requires

version 2.0 or later of iA-Passport and iA-License.

Connecting the iA-thenticate Cables

iA-thenticate comes with a cable for connecting it to the PCI card you installed in your PC. It also comes with its own power supply and cord.

To connect the iA-thenticate cables:



Note

The included power supply might not have a power cord suitable for your country. In this case you must obtain and use a 3-conductor grounded supply cord with a plug cap suitable for your country. It must have a minimum internal conductor area of 0.75 mm² and have a standard IEC 320 female connector.

- 1. Plug one end of the iA-thenticate cable into the connector on the PCI card you installed in your PC.
- 2. Plug the other end of this cable into the matching connector on the back of the iA-thenticate unit.
- 3. Make sure the power switch on the iA-thenticate unit is off.
- 4. Plug the cable from the iA-thenticate power supply into the power connector on the back of the iA-thenticate unit.
- 5. Plug the line cord from the power supply into a surge-protected power source that can supply 170 W at 100–240 VAC, 47–63 Hz.

Finishing Installation

Starting Up and Checking Installation

- 1. Turn on the iA-thenticate unit using its power switch.
- 2. Start the PC and log in as an administrator. You will see a message saying that the system has found new hardware.
- 3. When you see a message about the digital signature (Windows 2000) or Windows Logo testing (XP), click Yes or Continue Anyway.
- 4. Double-click the iA-Examiner icon on your desktop. After an initialization process, you should see the iA-Examiner screen.

If you see an error message instead, see below.

5. Exit by clicking the close button or selecting File→Exit.

If you see an error message:

If the driver for the PCI card was not properly installed for some reason, you see one of these error messages when you try to start iA-Examiner:

IACOM0: The system cannot find the file specified.

IACOM0: The port does not exist. Please check for its availability.

In this case you must follow these steps to reinstall the driver:

Windows 2000 Windows XP 1. Open the System control panel. 1. Open the System control panel. On the Hardware tab, click Device On the Hardware tab, click Device Manager. Manager. 2. Under Imaging Devices (or possibly 2. Under Imaging Devices (or possibly Other Devices) find the item named Other Devices) find the item named Multimedia Controller, displayed with Multimedia Controller, displayed with an exclamation point. Right-click it an exclamation point. Right-click it and select Properties. and select Properties. 3. On the Driver tab, click Update Driver. 3. On the Driver tab, click Update Driver. 4. On the first screen of the wizard, 4. On the first screen of the wizard, click Next. select Install the software automatically... and click Next. 5. On the next screen, select Search for a suitable driver... and click Next. 5. When you see a message about Windows Logo testing, click Continue Any-6. On the next screen, deselect all the checkboxes and click Next. 6. On the final screen, click Finish. 7. On the next screen, click Next. 8. On the Digital Signature Not Found screen, click Yes. 9. On the final screen, click Finish.

Now try starting iA-Examiner again. If you still get an error message, contact Viisage Customer Support.

Configuring Internet Explorer

If you use the VerifyMe verification database, follow these steps to configure Internet Explorer. Otherwise you can skip these steps.

- 1. Start Internet Explorer.
- 2. Select Tools→Internet Options.
- 3. On the Advanced tab, under the Security heading, deselect Warn if changing between secure and not secure mode.

Configuring a French Version of Windows

If you install this software on a unit running a *French* version of Windows, you must follow these additional steps:

- 1. Select Start—Run, type DCOMCNFG, and click OK.
- 2. On the Default Security tab, under Default Access Permissions, click Edit Default.
- 3. If the list does not include both INTERACTIF and SYSTEM, follow these steps to add the missing name or names:
 - a. Click Add.
 - b. In the drop-down List Frames From list, select the name of your unit.
 - c. In the Names list, select the missing name or names (INTERACTIF, SYSTEM) and click Add.
 - d. Click OK several times to accept the changes.

Controlling Access

This section explains how to create local user groups and set file permissions for your iA-thenticate unit so that different users have just the access they need. (This security setup matches the way iA-thenticate Plus units are shipped from the factory.)

Creating Local User Groups and Users

First, create two local user groups and assign users to these groups as needed.

1. Create these two local user groups:

iA-thenticate Users iA-thenticate Administrators

2. Create as many users as you need for the people who will use the system, and make each one a member of the appropriate user group:

| Local User Group | Users Who Should Belong to This Group | Access Allowed |
|---------------------------------|--|--|
| iA-thenticate Users | Personnel who use iA-Examiner to test and examine documents | iA-Examiner: user functions |
| iA-thenticate Administrators | Technical administrators, security managers, and operations managers | iA-Examiner: user and management functions iA-Administrator All Users startup folder (C:\Documents and Settings\ All Users\Start Menu\ Programs\Startup) |

Assigning File and Folder Permissions

Assigning file and folder permissions ensures that each group of users can run the appropriate iA-thenticate programs.

To assign file and folder permissions:

- 1. Follow steps a-c for each file in the table below:
 - a. Right-click the file and choose Properties.
 - b. Select the Security tab.
 - c. In the Name list, remove the entries for Everyone and Users (if listed). Then add Read & Execute permissions for user groups as indicated in the table.

| For this file in C:\BorderGuard\Bin\ | Assign Read & Execute permissions for these groups |
|---|---|
| iA-Administrator.exe (iA-Administrator) | iA-thenticate Administrators |
| BGDataPort.exe (iA-DataPort) | iA-thenticate Users iA-thenticate Administrators |
| BGExaminer.exe (iA-Examiner) | iA-thenticate Users iA-thenticate Administrators |
| BGServer.exe (iA-Server) | iA-thenticate Users iA-thenticate Administrators |
| ExaminerConfiguration (iA-Examiner configuration) | iA-thenticate Administrators |
| ExaminerManager (iA-Examiner management) | iA-thenticate Administrators |
| ExaminerReport (iA-Examiner reporting) | iA-thenticate Administrators |
| ExaminerViewer (iA-Examiner document review) | iA-thenticate Administrators |
| iA-SecondaryStation.exe (Secondary Station) | iA-thenticate Users iA-thenticate Administrators |

- 2. iA-thenticate Administrators must be able to change startup settings for All Users. Follow these steps to assign the needed permissions to C:\Documents and Settings\ All Users\Start Menu\Programs\Startup:
 - a. Right-click folder C:\Documents and Settings and choose Properties.
 - b. Select the Security tab.
 - c. Add Full Control permissions for the iA-thenticate Administrators group.
 - d. Repeat steps a-c for each successive folder in the path:

All Users (inside Documents and Settings) Start Menu (inside All Users) Programs (inside Start Menu) Startup (inside Programs)

- 3. *If* you use Windows security to limit users' access to various folders on your system, *all iA-thenticate users* must have these permissions:
 - Read and execute access to C:\, C:\BorderGuard, and C:\BorderGuard\Bin
 - Read, write, and execute access to:
 - The work folder, normally C:\BorderGuard\Working
 - The folder for storing captured images—for example, E:\BorderGuard\Images
 - The folder containing the iA-Examiner database BGExaminer.mdb, normally C:\BorderGuard\Bin
 - If you use TextWatch, the folder containing the TextWatch database iAT.sys, normally C:\BorderGuard\Bin

In addition, *iA-thenticate administrators* must have these permissions:

- Write access to:
 - The folder containing the iA-Administrator database Administrator.mdb, normally C:\BorderGuard\Bin
 - The Windows registry

Installing a Bar Code and Magstripe Reader

If your system includes a bar code and magstripe reader, install it now by following the instructions in chapter 5.

What's Next?

Your iA-thenticate unit is now set up to work using factory-default settings. Probably you will want to change some of those settings. Part Two of this guide explains how:

Part Two: Configuring and Managing iA-thenticate

Chapter 6, "Using the Administration Tools"

Chapter 7, "Configuring iA-thenticate"

Chapter 8, "Configuring iA-Examiner"

Chapter 9, "Managing iA-Examiner"

Setting Up Standard Color iA-thenticate

This chapter explains how to install software and hardware, connect cables, and control access to your *standard* iA-thenticate unit with *color* camera. Other chapters explain how to set up other kinds of units.

Before you proceed with installation, check the *Release Notes* for new information. If you are upgrading from a previous version, you may need to follow additional steps.

IMPORTANT

Setting up iA-thenticate requires the same skills as setting up a standard PC in a networked environment. If you are not an experienced installer and system administrator, you should not attempt to do the setup yourself.

Although setting up iA-thenticate is similar to setting up a PC, there are important differences. If you don't follow the instructions in this chapter carefully, your system may not work properly.

PC System Requirements for a Color Unit

The standard iA-thenticate color unit attaches to your Windows PC through a USB port and, for some configurations, a standard serial port. You install the iA-thenticate software on your PC, and iA-thenticate then operates as a peripheral device. The result is a full-featured document security workstation that still has all the capabilities of the desktop PC.

To work properly with iA-thenticate, your PC must meet these requirements:

Hardware

□ Processor: 1.6 GHz Pentium 4 or better recommended; 2.8 GHz or better for a smart-card unit
 □ RAM: 256 MB minimum; 512 MB minimum for a smart-card unit
 □ Free disk space: 300 MB minimum; 1 GB or more recommended when saving captured images and data
 □ Video display: 1024x768 resolution, 65536 colors, or better
 □ An available USB 2.0 port (high speed, 480 Mbps)
 □ An available standard serial port (for units that require it)

Configuration

☐ Swap file: Recommended 768 MB minimum and 1024 MB maximum for drive C and for the data drive (where you store captured images)

Supported operating systems

- □ Windows 2000 Service Pack 4 or higher with updates 823980 (Microsoft Security Bulletin MS03-026) and 828028 (Bulletin MS04-007)
- ☐ Windows XP Professional Service Pack 2

Other software requirements

- ☐ Internet Explorer 6.0 Service Pack 1 or higher with update 832894 (Microsoft Security Bulletin MS04-004)
- ☐ Current Microsoft USB driver recommended; third-party USB drivers may also perform well

Software Installation

Be sure to install the software before you connect the iA-thenticate hardware.

Setting the PC's Taskbar and Display Properties

Windows 2000 Windows XP 1. Start the PC, log on as an administra-1. Start the PC, log on as an administrator, and exit from all programs. tor, and exit from all programs. 2. Right-click the taskbar and choose 2. Right-click the taskbar and choose Properties. Properties. 3. On the Taskbar Properties screen, 3. On the Taskbar Properties screen, deselect Always on top and click OK. deselect Keep the taskbar on top of other windows and click OK. 4. Right-click the Windows desktop and choose Properties. 4. Right-click the Windows desktop and choose Properties. 5. On the Settings tab, click Advanced. 5. On the Appearance tab, in the Font 6. In the Font Size drop-down list, select Size drop-down list, select Normal if it Small Fonts if it is not already is not already selected. selected. 6. Follow any further on-screen instruc-7. Follow any further on-screen instructions for confirming your choice and tions for confirming your choice and installing fonts. You do not need to installing fonts. You do not need to restart the system at this point unless restart the system at this point unless Windows requires you to do so. Windows requires you to do so.

Note

This release has been tested with DirectX 9.0. If you have a later version already installed, we expect iA-thenticate will run with no problems.

Note

If you are upgrading, you may see somewhat different screens.

Installing DirectX

This software requires that DirectX 9.0 End-User Runtime be installed on your PC. To find out whether you already have this software installed:

- 1. Select Start—Run, type dxdiag, and click OK.
- 2. Find the DirectX version listed under System Information on the System tab.

If the version is not 9.0, follow these steps to install DirectX 9.0:

Windows 2000 and XP

- 1. Insert the iA-thenticate CD into your CD drive.
- 2. On the CD, open folder DirectX and run the installer program, dx90update_redist.exe.
- 3. Follow the on-screen instructions to install the DirectX software.

Installing the iA-thenticate Security Software

Windows 2000 and XP

- 1. Mount the iA-thenticate CD.
- 2. On the CD, in folder 1_iA-thenticate, run Setup.exe.
- 3. On the first screen, click Next.
- 4. On the License Agreement screen, read the license and click Yes to agree.
- 5. On the Setup Type screen, select iA-thenticate 4.1.0 for color units and click Next.
- 6. On the Data Drive screen, *if* you do *not* have a separate E drive for storing data, change the Destination Folder by clicking Browse and choosing drive C (or a different drive reserved for data). Then click Next.
- 7. On the Choose COM Port screen, select the COM port where you will connect the serial cable from the iA-thenticate unit. For a unit without a serial cable connection, accept the default (COM 1).
- 8. On the Current Settings screen, click Next.
- 9. On the Installation Complete screen, select No, I will restart my computer later and click Finish.

Installing iA-Administrator

Windows 2000 and XP

- 1. On the CD, in folder 2_iA-Administrator, run Setup.exe.
- 2. Proceed through the installer screens by clicking Next twice.
- 3. On the Installation Complete screen, select No, I will restart my computer later and click Finish.

Installing iA-Examiner

Windows 2000 and XP

- 1. On the CD, in folder 3_iA-Examiner, run Setup.exe.
- 2. On the first installer screen, click Next.
- 3. On the Data Drive screen, accept the Destination Folder you chose earlier—or change it if you want to use a different location for data and images saved by iA-Examiner.
- 4. On the InstallShield Wizard Complete screen, click Finish.

Installing the Custom Calibration File

Each standard iA-thenticate unit comes with a matching SampleScan diskette containing a calibration file. You should not use this file with any other iA-thenticate unit.

Windows 2000 and XP

- 1. Make sure the serial number printed on the SampleScan diskette matches the serial number on the iA-thenticate unit.
- 2. Insert the SampleScan diskette, and copy the SampleScan.cfg file from the diskette to this directory:
 - C:\BorderGuard\Config\
- 3. Eject the diskette.

Installing Optional Software

- 1. *If* you have the optional DL-Alert[™] feature, install it from the iA-thenticate CD:
 - a. In folder 4_DL-AlertIC, run DL-AlertIntelli-Check.exe.
 - b. Click Next and then Finish.
- 2. *If* you have other optional software such as iA-Passport or iA-License, install it now. Follow the instructions included with the optional software.

Note

This release requires version 2.0 or later of iA-Passport and iA-License. Color units require the color version of iA-Passport.

Hardware Installation

Note

The included power supply might not have a power cord suitable for your country. In this case you must obtain and use a 3-conductor grounded supply cord with a plug cap suitable for your country. It must have a minimum internal conductor area of 0.75 mm2 and have a standard IEC 320 female connector.

Install the software as described in the previous section before you install the hardware.

Before connecting any cables, be sure your PC and the iA-thenticate unit are fully powered off.

Connecting the iA-thenticate Unit

Each iA-thenticate unit ships with:

- □ A USB cable
- ☐ A standard serial cable (some configurations)
- ☐ A power supply and cord

To connect the iA-thenticate cables:

- 1. Connect the provided USB cable between the USB port on the back of the iA-thenticate unit and an available USB 2.0 port (high-speed, 480 Mbps) on your PC.
- 2. *If* your unit includes a serial cable, connect the provided cable between the serial port on the back of the unit and the appropriate COM port on your PC (selected during installation, page 3-3).
- 3. Make sure the power switch on the iA-thenticate unit is off.
- 4. Plug the cable from the iA-thenticate power supply into the power connector on the back of the iA-thenticate unit.
- 5. Plug the line cord from the power supply into a surge-protected power source that can supply 170 W at 100–240 VAC, 47–63 Hz.

Finishing Installation

When you start your system after installing the hardware, you must help Windows install drivers and confirm that they have been properly installed. You may also need to set some configuration options.

Starting Up and Installing Drivers

When you start up for the first time, Windows tries to install drivers and may need your help locating some. The steps vary with your hardware configuration and your version of Windows.

To start the system:

- 1. Turn on the iA-thenticate unit using its power switch.
- 2. Start the PC and log in as an administrator.
- 3. Wait for the New Hardware wizard to run.

Note

During driver installation, you may also be asked to locate the file ftser2k.sys. If so, browse to the *US232B Drivers* directory on the install CD.

To install each device driver (repeat as needed):

| Windows 2000 | Windows XP | |
|---|--|--|
| 1. Make sure you can see the small window that shows the name of the hardware device; this is sometimes hidden behind the wizard. | 1. Make sure you can see the small window that shows the name of the hardware device; this is sometimes hidden behind the wizard. | |
| On the first wizard screen, click Next. Select Search for a suitable driver for my device (Recommended) and click Next. Select Specify a location and click Next. Click Browse and select the file shown in the table below. Then click OK. When the wizard displays the driver, click Next. If you see a message about the digital signature, click Yes to continue. Click Finish. | On the first wizard screen, select Install from a list or specific location (Advanced) and click Next. Select Include this location in the search and browse to the folder shown in the table below. Then click Next. If you see a message about Windows logo testing, click Continue Anyway. Click Finish. | |

Driver files and locations:

| For this hardware device: | Browse to this file: |
|--|--|
| USB 2.0 PC Camera (May install without your help) | C:\Borderguard\Tools\Electrim\OVUSB2.inf |
| USB Fast Serial Adapter | Install CD: US232B Drivers\ftdibus.inf |
| USB Serial Port | Install CD: US232B Drivers\FTDIPORT.INF |
| SCR331-DI USB Smart Card Reader | Install CD: SmartCard Drivers\S331DI2K.INF |
| SCR331-DI Contactless Reader | Install CD: SmartCard Drivers\S331DICL.INF |

If the wizard tries to install additional drivers, repeat these steps. For a dual-page smart-card unit, you may need to install each of the SCR331-DI drivers twice.

ce Manager lists Checking the Camera Driver

Follow these steps to make sure the camera driver is properly installed.

- 1. Open the System control panel. On the Hardware tab, click Device Manager.
- 2. Under Imaging Devices, find the item named OmniVision SuperCAM. Right-click it and select Properties.

Note

If the Device Manager lists no Imaging Devices: Unplug the USB cable from the iA-thenticate unit. Wait at least 10 seconds, then plug the USB cable back in.

If the problem persists: Power down the PC and the iA-thenticate unit. Wait at least 30 seconds, then turn on the iA-thenticate unit. Finally, turn on the PC. 3. Compare the properties on the screen to the ones in this table:

| Right driver | Wrong driver |
|--|---|
| OmniVision SuperCAM [or Super Cam] Driver Provider = OmniVision Driver Date = 2002-04-05 [or N/A] Driver Version = 2.1.0.1 Digital Signer = Not digitally signed | OmniVision SuperCAM Driver Provider = OmniVision Driver Date = 2002-04-11 Driver Version = 5.2.2600.1 Digital Signer = Microsoft Windows Hardware Compatibility |

4. If you have the wrong driver, continue with these steps to install the right one:

| Windows 2000 | Windows XP | |
|--|--|--|
| 1. In the Properties window, go to the Driver tab and click Update Driver. | 1. In the Properties window, go to the Driver tab and click Update Driver. | |
| 2. On the first screen of the wizard, click Next. | 2. On the first screen of the wizard, select Install from a list or specific location (Advanced) and click Next. | |
| On the next screen, select Search for a suitable driver and click Next. | 3. On the next screen, select Don't search. I will choose the driver to install. Then browse to C:\BorderBuard\Tools\Electrim and select OVUSB2.INF. 4. When you see a message about Windows Logo testing, click Continue Anyway. | |
| 4. On the next screen, select only Specify a location and click Next. | | |
| On the next screen, click Browse. Then browse to C:\BorderBuard\Tools\Electrim and select OVUSB2.INF. Click OK. | | |
| On the Digital Signature Not Found screen, click Yes. | 5. On the final screen, click Finish. | |
| 7. On the final screen, click Finish. | | |

Configuring the Camera Port

(Units with no serial cable)

If your unit has *no serial cable* connecting it to the PC, follow these steps to configure the camera port:

- 1. Open the Device Manager. (Right-click My Computer, choose Manage, and click Device Manager.)
- 2. Expand the Ports (COM & LPT) item and find the USB serial port listing. Note the COM port number assigned to the entry. For example, it might be listed as USB Serial Port (COM3).
- 3. Run iA-Administrator by choosing Start→Programs→iA-thenticate→iA-Administrator.
- 4. On the Configuration tab, under Advanced, select the number for Color camera COM port that matches the one you found in Device Manager.
- 5. Click Apply, then exit iA-Administrator.

Configuring a Smart-Card Unit

If you are installing a smart-card unit, follow these steps to configure it:

- 1. Run iA-Administrator by choosing Start→Programs→iA-thenticate→iA-Administrator.
- 2. On the Configuration tab, under Signals and Alerts, deselect both of the Beep when... options. (These are currently incompatible with smart-card processing.)
- 3. Under Hardware, select either Dual page or Single page to match the type of reader you have.
- 4. Click Apply, then exit iA-Administrator.
- Run iA-Examiner using the desktop shortcut or by choosing Start→Programs→
 iA-thenticate→iA-Examiner.
- 6. Click Mgmt Functions and then System Config.
- 7. On System Configuration Page 1, select Smart Card Reader.
- 8. Click Apply and Done, then exit iA-Examiner.

Configuring Internet Explorer

If you use the VerifyMe verification database, follow these steps to configure Internet Explorer:

- 1. Start Internet Explorer.
- 2. Select Tools→Internet Options.
- On the Advanced tab, under the Security heading, deselect Warn if changing between secure and not secure mode.

Configuring a French Version of Windows

If you install this software on a unit running a *French* version of Windows, you must follow these additional steps:

- 1. Select Start—Run, type DCOMCNFG, and click OK.
- 2. On the Default Security tab, under Default Access Permissions, click Edit Default.
- 3. If the list does not include both INTERACTIF and SYSTEM, follow these steps to add the missing name or names:
 - a. Click Add.
 - b. In the drop-down List Frames From list, select the name of your unit.
 - In the Names list, select the missing name or names (INTERACTIF, SYSTEM) and click Add.
 - d. Click OK several times to accept the changes.

Controlling Access

This section explains how to create local user groups and set file permissions for your iA-thenticate unit so that different users have just the access they need. (This security setup matches the way iA-thenticate Plus units are shipped from the factory.)

Creating Local User Groups and Users

First, create two local user groups and assign users to these groups as needed.

1. Create these two local user groups:

iA-thenticate Users iA-thenticate Administrators

2. Create as many users as you need for the people who will use the system, and make each one a member of the appropriate user group:

| Local User Group | Users Who Should Belong to This Group | Access Allowed |
|---------------------------------|--|--|
| iA-thenticate Users | Personnel who use iA-Examiner to test and examine documents | iA-Examiner: user functions |
| iA-thenticate Administrators | Technical administrators, security managers, and operations managers | iA-Examiner: user and management functions iA-Administrator All Users startup folder (C:\Documents and Settings\ All Users\Start Menu\ Programs\Startup) |

Assigning File and Folder Permissions

Assigning file and folder permissions ensures that each group of users can run the appropriate iA-thenticate programs.

To assign file and folder permissions:

- 1. Follow steps a–c for each file in the table below:
 - a. Right-click the file and choose Properties.
 - b. Select the Security tab.
 - c. In the Name list, remove the entries for Everyone and Users (if listed). Then add Read & Execute permissions for user groups as indicated in the table.

| For this file in C:\BorderGuard\Bin\ | Assign Read & Execute permissions for these groups |
|---|---|
| iA-Administrator.exe (iA-Administrator) | iA-thenticate Administrators |
| BGDataPort.exe (iA-DataPort) | iA-thenticate Users iA-thenticate Administrators |
| BGExaminer.exe (iA-Examiner) | iA-thenticate Users iA-thenticate Administrators |
| BGServer.exe (iA-Server) | iA-thenticate Users iA-thenticate Administrators |
| ExaminerConfiguration (iA-Examiner configuration) | iA-thenticate Administrators |
| ExaminerManager (iA-Examiner management) | iA-thenticate Administrators |
| ExaminerReport (iA-Examiner reporting) | iA-thenticate Administrators |
| ExaminerViewer (iA-Examiner document review) | iA-thenticate Administrators |
| iA-SecondaryStation.exe (Secondary Station) | iA-thenticate Users iA-thenticate Administrators |

- 2. iA-thenticate Administrators must be able to change startup settings for All Users. Follow these steps to assign the needed permissions to C:\Documents and Settings\ All Users\Start Menu\Programs\Startup:
 - a. Right-click folder C:\Documents and Settings and choose Properties.
 - b. Select the Security tab.
 - c. Add Full Control permissions for the iA-thenticate Administrators group.
 - d. Repeat steps a-c for each successive folder in the path:

All Users (inside Documents and Settings)
Start Menu (inside All Users)
Programs (inside Start Menu)
Startup (inside Programs)

- 3. *If* you use Windows security to limit users' access to various folders on your system, *all iA-thenticate users* must have these permissions:
 - Read and execute access to C:\, C:\BorderGuard, and C:\BorderGuard\Bin
 - Read, write, and execute access to:
 - The work folder, normally C:\BorderGuard\Working
 - The folder for storing captured images—for example, E:\BorderGuard\Images
 - The folder containing the iA-Examiner database BGExaminer.mdb, normally C:\BorderGuard\Bin
 - If you use TextWatch, the folder containing the TextWatch database iAT.sys, normally C:\BorderGuard\Bin

In addition, *iA-thenticate administrators* must have these permissions:

- Write access to:
 - The folder containing the iA-Administrator database Administrator.mdb, normally C:\BorderGuard\Bin
 - The Windows registry

Installing a Bar Code and Magstripe Reader

If your system includes a bar code and magstripe reader, install it now by following the instructions in chapter 5.

What's Next?

Your iA-thenticate unit is now set up to work using factory-default settings. Probably you will want to change some of those settings. Part Two of this guide explains how:

Part Two: Configuring and Managing iA-thenticate

Chapter 6, "Using the Administration Tools"

Chapter 7, "Configuring iA-thenticate"

Chapter 8, "Configuring iA-Examiner"

Chapter 9, "Managing iA-Examiner"

Setting Up Standard Color iA-thenticate

Setting Up Monochrome iA-thenticate Plus

This chapter explains how to connect cables, install optional hardware and software, log on, and control access to your iA-thenticate *Plus* unit (with built-in PC) with *monochrome* camera. Other chapters explain how to set up other kinds of units.

Before you proceed with installation, check the *Release Notes* for new information. If you are upgrading from a previous version, you may need to follow additional steps.

IMPORTANT

Setting up iA-thenticate requires the same skills as setting up a standard PC in a networked environment. If you are not an experienced installer and system administrator, you should not attempt to do the setup yourself.

Although setting up iA-thenticate is similar to setting up a PC, there are important differences. If you don't follow the instructions in this chapter carefully, your system may not work properly.

Connecting Cables

Note

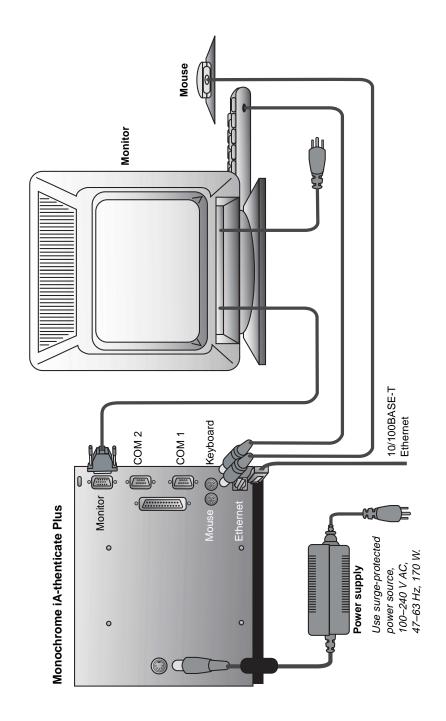
The included power supply might not have a power cord suitable for your country. In this case you must obtain and use a 3-conductor grounded supply cord with a plug cap suitable for your country. It must have a minimum internal conductor area of 0.75 mm² and have a standard IEC 320 female connector.

Referring to the diagram on the next page, make the appropriate connections to the marked connectors on the back of the iA-thenticate Plus unit. (You must connect a monitor, keyboard, and mouse for initial setup, even if you plan to use the unit later without these peripherals.)

To connect a monochrome iA-thenticate Plus unit:

- 1. Plug a standard monitor into the monitor connector on the unit, and plug the monitor's power cord into an appropriate power source.
- 2. Plug a standard keyboard and mouse into the matching PS/2 connectors on the unit.
- 3. Optionally, plug an Ethernet cable into the 10/100BASE-T connector on the unit.
- 4. Make sure the power switch on the iA-thenticate unit is off.
- 5. Plug the cable from the power supply into the power connector on the unit.
- 6. Plug the line cord from the power supply into a surge-protected power source that can supply 170 W at 100–240 VAC, 47–63 Hz.

Connecting Monochrome iA-thenticate Plus



Starting Up and Logging On

If your iA-thenticate unit is powered off, follow these steps to start up and log on:

- 1. Start the iA-thenticate unit by turning on its switch.
- 2. Log on with an administrator username.

For a new iA-thenticate Plus unit, log on as administrator, with password iai. As soon as you log on, assign a secure password to administrator.

Installing Optional Software

Note

This release requires version 2.0 or later of iA-Passport and iA-License.

If you have other optional software such as iA-Passport or iA-License, install it now. Follow the instructions included with the optional software.

Controlling Access

This section explains how to control access to your iA-thenticate Plus unit, whether you're setting it up as a full-featured document security workstation or as a compact, self-contained unit. (See "Basic Setup Options" on page 1-2.)

Users and Groups

iA-thenticate Plus units are preconfigured with local user groups that let you give different users the kind of access they need:

| Local User Group | Users Who Should Belong to This Group | Access Allowed |
|---------------------------------|--|--|
| iA-thenticate Users | Personnel who use iA-Examiner or Secondary Station to test and examine documents | iA-Examiner: user functions Secondary Station |
| iA-thenticate Administrators | Technical administrators, security managers, and operations managers | iA-Examiner: user and management functions Secondary Station iA-Administrator All Users startup folder, C:\Documents and Settings\ All Users\Start Menu\ Programs\Startup\ |

| Username | Password | Description |
|---------------|---|--|
| administrator | iai (Change the first time you log on.) | For initial iA-thenticate setup and continuing master administrator access. |
| autologon | autologon (Do not change.) | For use with the auto-logon feature, which allows you to set up an iA-thenticate unit with no keyboard or mouse. |

Full-Featured Document Security Workstation

If you're setting up your unit as a full-featured document security workstation with monitor, keyboard, and mouse, you control access by creating users and making each one a member of the appropriate group.

To control access to a full-featured workstation:

- 1. Log on to the iA-thenticate unit with an administrator username.
- 2. Create as many local users as you need for the people who will use the system, and make each one a member of the appropriate user group—either iA-thenticate Users or iA-thenticate Administrators, as described above.

Compact, Self-Contained Unit

With a compact, self-contained unit, the operator can't log on because the unit has no keyboard. So iA-thenticate includes an auto-logon feature that can bypass the logon dialog box and automatically log on with the username autologon and password autologon.

To control access to a self-contained unit:

- 1. Optional: Create one or more users as members of the iA-thenticate Administrators group, as just described under "Full-Featured Document Security Workstation." This lets an administrator attach a monitor and keyboard and log on when necessary. (If you don't create any such users, an administrator can still log on as administrator.)
- 2. Enable the auto-logon feature and set appropriate options as explained under "Setting Startup Options" on page 4-7. This section also explains how to bypass or disable auto-logon when needed.
- 3. After setting up auto-logon, be sure to control physical access to the unit as needed, since anyone can attach a monitor and keyboard and use the unit without logging on.

Installing a Bar Code and Magstripe Reader

If your system includes a bar code and magstripe reader, install it now by following the instructions in chapter 5.

What's Next?

Your iA-thenticate Plus unit is now set up to work using factory-default settings. Probably you will want to change some of those settings. Part Two of this guide explains how:

Part Two: Configuring and Managing iA-thenticate

Chapter 6, "Using the Administration Tools"

Chapter 7, "Configuring iA-thenticate"

Chapter 8, "Configuring iA-Examiner"

Chapter 9, "Managing iA-Examiner"

Setting Up Monochrome iA-thenticate Plus

Installing a Bar Code and Magstripe Reader

Note

You can also use a "keyboard wedge" magstripe reader connected between your keyboard and PC. This reader is no longer provided by Viisage but is supported as a legacy device. We do not recommend this reader for processing credit cards. This release supports both the *serial* and *USB* models of the E-Seek Intelli-Check combination bar code and magstripe reader.

The reader is preconfigured with the correct settings to work with your iA-thenticate unit. However, if it should lose its settings, you can restore them as explained in appendix A, "Resetting the E-Seek Reader."

Installing the E-Seek Intelli-Check Serial Reader

Follow these instructions if you have an E-Seek Intelli-Check *serial* reader. If you have an E-Seek Intelli-Check USB reader, skip to the next section instead.

- 1. Locate the longer serial cable supplied with the reader.
- 2. Plug in the cable's 9-pin D connector:
 - For a standard iA-thenticate unit, plug the cable into your PC's COM 2 serial port.
 - For a monochrome iA-thenticate Plus unit, plug the cable into the unit's COM 2 (upper) serial port.
- 3. Plug the other end of the cable into the E-Seek Intelli-Check reader.
- 4. Plug the cable from the supplied power adapter into the reader.
- 5. Plug the power adapter into a surge-protected power source that meets the requirements printed on the adapter. The reader should beep three times when you connect the power.

This completes the installation of the serial reader.

Note

If needed, you can use a port other than COM 2. If you do, you must change the port settings in Examiner (page 8-2) or DataPort (page 10-8) to match.

Installing the E-Seek Intelli-Check USB Reader

Follow these instructions if you have an E-Seek Intelli-Check *USB* reader. If you have an E-Seek Intelli-Check Serial reader, see the previous section instead.

Note that:

- ☐ Your exact installation steps depend on which version of Windows you have and which USB drivers you already have installed.
- ☐ You may need the driver CD supplied with the reader. If you are installing on a unit with no CD drive, you can mount the CD on a network-accessible drive or copy its contents to a network-accessible folder.

Connecting the Reader

♦ With the system running, plug the reader's USB cable into an available USB port. Your next step depends on how the system responds:

| If your system does this: | Then do this: | |
|---|--|--|
| Finds neither USB driver and starts the New Hardware wizard (most likely with Windows 2000 when the system has never used a USB-serial converter) | Continue with "Installing the Drivers" | |
| Finds one driver but not the other and asks you to locate needed files (most likely with Windows 2000 when the system has previously used a USB-serial converter) | Skip to "Finding Driver Files" | |
| Finds and installs both USB drivers on its own, and then tells you it has done so (most likely with Windows XP) | Skip to "Configuring iA-Examiner" | |

Installing the Drivers

Follow these steps if the New Hardware wizard runs.

| Windows 2000 | Windows XP | |
|---|---|--|
| 1. Make sure you can see the small window that shows the name of the hardware device; this is sometimes hidden behind the wizard. | 1. Make sure you can see the small window that shows the name of the hardware device; this is sometimes hidden behind the wizard. | |
| 2. On the first wizard screen, click Next. | 2. On the first wizard screen, select | |
| 3. Select Search for a suitable driver for my device (Recommended) and click Next. | Install from a list or specific location (Advanced) and click Next. | |
| 4. Select Specify a location and click Next. | 3. Select Include this location in the search and browse to the folder shown in the | |
| 5. Click Browse and select the file shown | table below. Then click Next. | |
| in the table below. Then click OK. | 4. If you see a message about Windows | |
| 6. When the wizard displays the driver, | logo testing, click Continue Anyway. | |
| click Next. | 5. Click Finish. | |
| 7. If you see a message about the digital signature, click Yes to continue. | | |
| 8. Click Finish. | | |

Driver files and locations:

| For this hardware device: | Browse to this file: | |
|---------------------------|--|--|
| USB <-> Serial | Driver CD: DCM_USB_driver\FTDIBUS.INF | |
| USB Serial Port | Driver CD: DCM_USB_driver\FTDIPORT.INF | |

Next, skip to "Configuring iA-Examiner."

Finding Driver Files

Follow these steps if the system doesn't run the New Hardware wizard but asks you to locate needed files.

- 1. In the Files Needed window, browse to the folder named DCM_USB_driver on the driver CD and click OK.
- 2. When the Files Needed window appears a second time, repeat step 1.

Next, proceed to "Configuring iA-Examiner."

Configuring iA-Examiner

After the USB drivers are installed, follow these steps to configure iA-Examiner to use the reader.

1. Open the Device Manager. (Right-click My Computer, choose Manage, and click Device Manager.)

2. Expand the Ports (COM & LPT) item and find any USB Serial Port entries. Assuming your PC has no additional USB serial devices attached, you should see either one entry (if your unit has a serial cable) or two (if it has no serial cable).

On a unit with no serial cable, one entry is for the camera. This is the one you found earlier and matched to the Color camera COM port number listed in iA-Administrator (page 3-7). You are now interested in the *other* entry.

Note the COM port number assigned to the entry. For example, it might be listed as USB Serial Port (COM4).

3. Start iA-Examiner by double-clicking its icon on the desktop or by selecting Start→ Programs→iA-thenticate—iA-Examiner.

If you see an error message about serial port initialization, click OK to continue.

- 4. In iA-Examiner, click Mgmt Functions and then System Config.
- 5. On System Configuration Page 1, under Peripherals:
 - a. Select E-Seek Reader.
 - b. For Comm. Port, select the number you found in step 2.
- 6. Click Apply and then Done.

This completes the installation of the USB reader.

Note: If you unplug the reader and plug it into a different USB port, your system may want to reinstall USB drivers and assign a different COM port number. In this case you must reconfigure iA-Examiner for the new port number as explained above.

Part Two

Configuring and Managing iA-thenticate

Using the Administration Tools

You use two administration tools to configure iA-thenticate:

- □ iA-Administrator
- □ iA-Examiner (Management Functions)

This chapter introduces these tools, and the following chapters explain how to use them to configure an iA-thenticate unit.

iA-Administrator

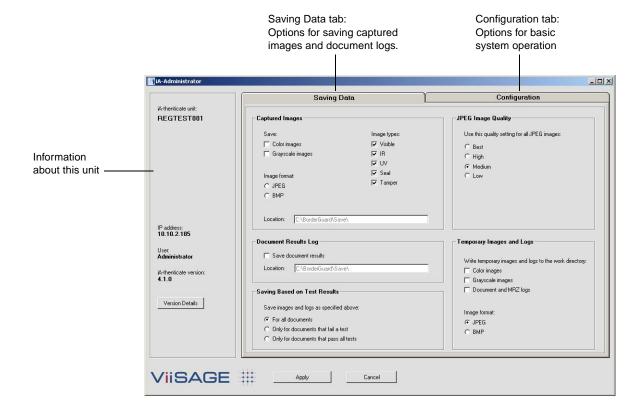
You use iA-Administrator to:

- ☐ View information about the iA-thenticate unit
- ☐ Set options for basic system operation
- ☐ Set options for saving captured images and document logs—if you do *not* use iA-Examiner to save images and logs

To run iA-Administrator:

- 1. Log on as a local administrator or member of the iA-thenticate Administrators user group.
- 2. Select Start→Programs→iA-thenticate→iA-Administrator.

The iA-Administrator screen looks like this:



iA-Examiner

iA-Examiner is the primary program that operators use for processing documents. In addition to its operator screens, it has a section of Management Functions screens that let you set options beyond those you set with iA-Administrator.

You use the iA-Examiner management screens to:

- ☐ Set options for saving captured images and document logs
- ☐ Control details of iA-Examiner appearance and behavior
- ☐ Choose document testing options
- ☐ Enable optional iA-Examiner features
- ☐ Configure a magstripe and bar code reader and a printer

To use iA-Examiner's management functions:

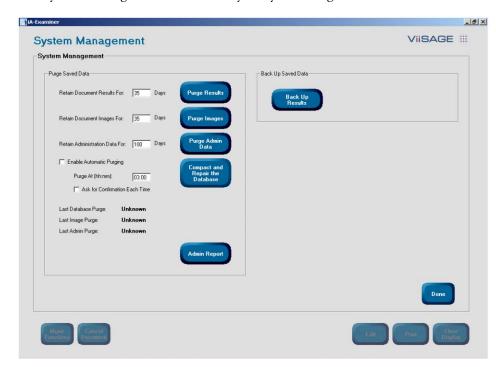
- 1. Log on as a local administrator or member of the iA-thenticate Administrators user group.
- 2. Run iA-Examiner by double-clicking the iA-Examiner icon on your desktop or by selecting Start—Programs—iA-thenticate—iA-Examiner.
- 3. On the main iA-Examiner screen, click Mgmt Functions.



You can then click System Management or System Config to accomplish various management and configuration tasks.

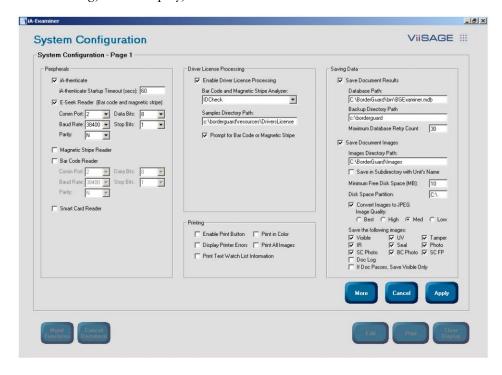
Note

Access to the management screens is restricted when you use the recommended security setup described on page 3-9.



The System Management screen mostly lets you manage saved data:

The System Configuration screen lets you set a variety of options (on several pages) for peripheral configurations, driver's license and ID processing, printing, data saving, document testing, screen display, and other features:



What's Next?

Use the following chapters to learn how to use iA-Administrator and iA-Examiner to configure your unit's operation:

- ☐ Chapter 7, "Configuring iA-thenticate" (using iA-Administrator)
- ☐ Chapter 8, "Configuring iA-Examiner" (using the iA-Examiner configuration screens)
- ☐ Chapter 9, "Managing iA-Examiner" (using iA-Examiner management functions)

Using the Administration Tools

7 Configuring iA-thenticate

This chapter explains how you use iA-Administrator to:

- ☐ View information about the iA-thenticate unit
- ☐ Set options for basic system operation
- ☐ Set options for saving captured images and document logs—if you do *not* use iA-Examiner to save images and logs

Chapter 6, "Using the Administration Tools," introduces iA-Administrator, tells how to start it, and gives an overview of its screen.

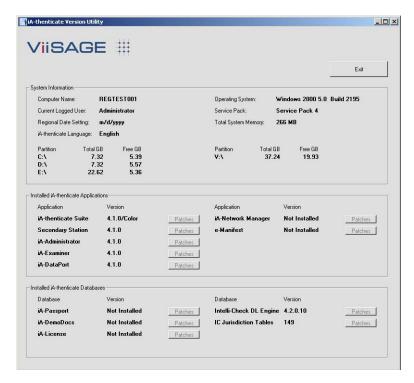
Chapter 8, "Configuring iA-Examiner," describes additional ways to control and configure your system using iA-Examiner.

Viewing Unit Information



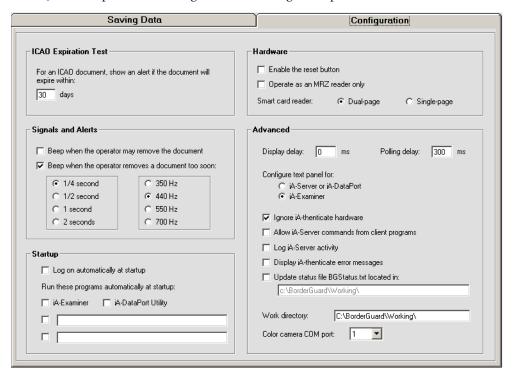
The left side of the Administrator screen shows the computer name of the iA-thenticate unit, its IP address, the name of the logged-on user, and the iA-thenticate software version. It also includes a button for viewing detailed version information.

Clicking Version Details runs the iA-thenticate Version Utility, which shows detailed information about the installed software:



Setting Options for Basic Operation

To set options for basic operation, run iA-Administrator (Start—Programs—iA-thenticate—iA-Administrator) and click the Configuration tab. In each section of the screen, set the options according to the following descriptions and recommendations.



ICAO Expiration Test

| Option | Description | Recommendations |
|---|---|--|
| For an ICAO document, show an alert if the document will expire within days | Tells iA-thenticate to display an alert for an <i>ICAO</i> document if it expires within this number of days. (When Examiner tests the expiration date of a <i>non-ICAO</i> license or ID by reading the magstripe or bar code, it displays an alert only if the document has already expired.) | Use the default value of 30 days unless you want the alert displayed farther in advance or not as far. |

Signals and Alerts

You can use audio signals and alerts with an iA-thenticate Plus unit (which has a small built-in speaker) and with a standard iA-thenticate unit attached to a PC with a sound card and speaker.

| Option | Description | Recommendations | |
|--|--|--|--|
| Beep when the operator may remove the document | Beeps (using the standard system beep) when testing is complete and the operator may safely remove the document. | Deselect this if you are using a smart card reader. Otherwise, select it if you want the operator to hear a beep when the document may be removed. | |
| Beep when the operator removes a document too soon | Beeps at the selected frequency and for the selected time when the operator removes a document before testing is complete. | Deselect this if you are using a smart card reader. Otherwise, select it if you want the operator to hear a beep when the document is removed too soon. If several units are located near each other, you can choose different beep frequencies to make them distinctive. | |

Startup

If you want to use an iA-thenticate *Plus* unit as a compact, self-contained unit without monitor or keyboard (see page 1-2), you must set it up to log on automatically and to run any necessary programs. You can also set up a *standard* iA-thenticate unit to run programs automatically at startup for convenience.

| Option | Description | Recommendations |
|--|---|--|
| Log on automatically at startup | Bypasses the Windows logon screen at startup and logs on as user autologon. This setting is only available if your user account allows you to edit the Windows registry. You may need to log on as an administrator to change it. | Select this if you are setting up a compact, self-contained unit for use without an attached monitor or keyboard (page 1-2). We do not recommend using this option for a full-featured unit with keyboard and monitor, because it bypasses normal Windows logon security. |
| Run these programs automatically at startup | After Windows starts, runs the selected programs automatically. To add a program, type its full pathname. Selected programs are added to the Startup program group for All Users: C:\Documents and Settings\All Users\ Start Menu\Programs\Startup\ | Select the programs you want to run at startup. If you select more than one program, one may hide another after startup. If you select no programs, the Windows desktop appears after startup. |

Restoring Normal Logon

If you select Log on automatically at startup, Windows never displays the logon screen. To bypass automatic logon temporarily and to disable automatic logon, you must follow special procedures.

To bypass automatic logon temporarily:

- 1. While starting or restarting the unit, press and hold the Shift key until the Logon dialog box appears.
- 2. Log on in the usual way.

To disable automatic logon:

- 1. Log on as a local administrator or using another account that allows you to edit the Windows registry.
- 2. Run iA-Administrator.
- 3. Deselect Log on automatically at startup and click Apply.

Hardware

| Option | Description | Recommendations | |
|-------------------------------|---|---|--|
| Enable the reset button | Activates the reset button on the back of the iA-thenticate unit, so that pressing it shuts down the unit. This works only when iA-thenticate is running. | Select this only if you are setting up a compact, self-contained unit without an attached monitor or keyboard (page 1-2), so that you can shut down the unit properly. | |
| Operate as an MRZ reader only | Tells iA-thenticate to capture and test only visible and IR images and to skip all pattern and brightness tests. | Select this only if you need maximum processing speed and you do not need the excluded images and test results. | |
| Smart card reader | Selects the appropriate type of smart-card reader (if you have one). A dual-page reader has two antennas; a single-page reader has one. | Select either Dual-page or Single-page to match your smart-card reader. If you have no reader, the setting makes no difference. | |
| | | You must have write access to the Windows registry to change this setting. If you don't, the options may be grayed out, or they may be selectable but not actually have any effect. | |

Advanced

You will probably never need to change any of the following advanced options. You should leave them alone unless you have a specific reason to change them.

| Option | Description | Recommendations |
|--|--|---|
| Display delay | Tells iA-thenticate how many milliseconds to display the test results from the last document processed before it starts looking for a new document to process. After it starts looking, it keeps polling according the Polling delay value (next). | Use the default value of 0 ms. |
| Polling delay | Tells iA-thenticate how many milli- seconds to wait between checks to see if a new document has been placed on the document platform. | Use the default value of 300 ms. |
| Configure text panel for | Selects which program controls the messages on the built-in text display. | If you use iA-Examiner as your primary application, select iA-Examiner. If you use iA-DataPort as your primary application, select iA-Server or iA-DataPort. |
| | | If you use a custom program as your primary application, select iA-Examiner only if your program is designed to write information to the text display. Otherwise select iA-Server or iA-DataPort. |
| Ignore iA-thenticate hardware | Tells the iA-thenticate software to operate as if the hardware components (camera, lights, and so on) are not connected. | Do not select this except for testing purposes. |
| Allow iA-Server commands from client programs | Not currently used. | Leave this deselected. |
| Log iA-Server activity | Records iA-Server activity in a log file named iaT_Log.txt. This file is saved in the work directory (see below). | Do not select this unless you have a reason to record iA-Server activity, such as for troubleshooting purposes. |
| Display iA-thenticate error messages | Displays extra error messages that do not normally affect operation and are not normally displayed. | Do not select this except for trouble-shooting purposes. |
| Update status file BGStatus.txt located in | Constantly updates a file named BGStatus.txt in the specified directory with iA-thenticate's current status. Other programs can then monitor the status by reading this file. | Do not select this unless you are running a custom program that needs to read this file. |

| Option | Description | Recommendations | |
|--------------------------|---|--|--|
| Work directory | The directory iA-thenticate uses for storing various work files. | Use the default directory (C:\BorderGuard\Working\) unless you have a reason to change it. | |
| Color camera COM port | The COM port where the color camera is connected, set during installation. Appears only on color systems. | For further information, see pages 3-3 and 3-7. | |

Setting Options for Saving Images and Logs

You can configure iA-thenticate to save captured document images as well as text logs containing document information and test results. You may want to save these files for various reasons related to security, operations, and record-keeping.

Two Ways to Save Images and Logs

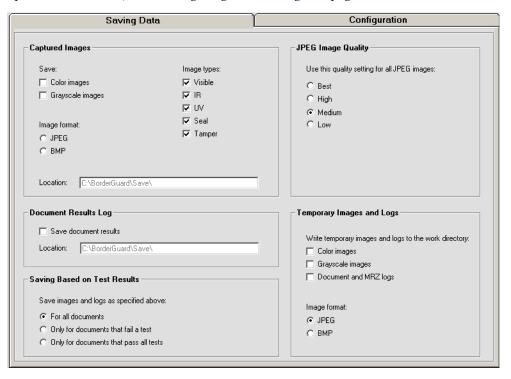
You can set options for saving images and logs here in Administrator or in Examiner. The two ways are independent of each other, and you can use either one.

- ☐ If you use Examiner to process documents, it's generally easiest to use Examiner to save images and logs as well. And it offers more options than Administrator.
- ☐ Unless you have a special reason to do so, you should not save images and logs using *both* Administrator and Examiner.

This table compares the two ways.

| Using Administrator | Using Examiner |
|--|--|
| You can save images in JPEG (.jpg) format with several levels of compression, or in uncompressed Bitmap (.bmp) format. | The same. |
| You can select the image types you want to save—any combination of visible, IR, UV, seal, and tamper. | In addition to the visible, IR, UV, seal, and tamper images, you can save the ID photo from the visible image, the ID photo from a 2D bar code, and the ID photo and fingerprint image from a smart card. |
| On monochrome systems you can save gray- scale images. On color systems you can save color images, grayscale images, or both. | On monochrome systems you can save gray- scale images. On color systems you can save only color images. |
| You can save the selected images and logs for all documents, or only for those that pass all tests, or only for those that fail a test. | You can save the selected images and data for all documents. Or, for documents that pass all tests, you can save the visible image alone. |
| You save document results in an individual plain-text (.txt) log file for each document. | You save document results in a single data- base (.mdb) file for all documents. You can also save individual plain-text or XML log files for custom processing. |
| The document results lack some of the information that iA-Examiner is able to record. | The document results contain additional information, including details about licenses and IDs, data retrieved from verification databases, data the operator enters manually, data from smart cards, and more. |
| Administrator includes no facility for viewing previously captured images and linking them to saved document information and test results. | You can use the Viewer feature in Examiner to view prior documents processed by the unit and see their captured images, extracted information, and test results, as explained in the Viisage iA-Examiner User's Guide. |

To set data-saving options here in Administrator, click the Saving Data tab, and use the descriptions and recommendations in the following tables. Or, to set data-saving options in Examiner, see "Configuring Data Saving" on page 8-5.



Captured Images

| Option | Description | Recommendations | |
|--------------|--|---|--|
| Save | Saves color or grayscale images, or both, to the location specified. Color images (color units only) are 1280×1024 pixels, 24-bit color. Grayscale images (all units) are 768×576 pixels, 8-bit grayscale. Names each file using the document type and number (if known), date and time processed (if needed to make the name unique), and image type. For example, for a typical ICAO document: USA_P_12345678_VC.jpg where USA is the country code, P is the ICAO document type, 12345678 is the document number, and VC is the image type (can be I, S, T, U, or V, plus C if the image is color). | Set these options to suit your needs. Be sure the location you use for saving images has enough disk space. If the disk fills up, iA-thenticate will no longer operate properly. To reduce file sizes, use the JPEG format rather than BMP. See JPEG Image Quality, below, for more information. | |
| Image format | The graphics file format for saving images, JPEG or BMP. JPEG files are compressed according to the JPEG Image Quality setting (below). | | |
| Location | The full pathname of the directory for saving images, on a local drive or mapped network drive. | | |
| Image types | The types of images to save—Visible (white light), IR, UV, Seal, Tamper. | | |

Document Results Log

| Option | Description | Recommendations | |
|-----------------------|---|--|--|
| Save document results | Saves an individual text file of test results for each document processed. | Select this if you want a record of document information and test results for each document. | |
| Location | The full pathname of the directory for saving the logs, on a local drive or mapped network drive. | Usually it's most convenient to use the same directory you use for saving images (above). | |

Saving Based on Test Results

| Option | Description | Recommendations | |
|---|--|---|--|
| Save images and logs as specified above | Selects which images and logs to save, depending on whether they pass or fail <i>these tests only</i> : checksum, expiration, B900 ink, patterns (visible, IR, UV, seal), brightness (IR, UV), and tamper. For all documents: Saves all images and logs regardless of test results. | Select the option that meets your needs. Note: You must also select the kinds of images you want to save (above): Color images, Grayscale images, or both. | |
| | Only for documents that fail a test: Saves images and logs only for documents that fail one of these tests. | | |
| | Only for documents that pass all tests: Saves images and logs only for documents that pass all these tests. | | |

JPEG Image Quality

| Option | Description | | | Recommendations |
|--|--|---|---------|--|
| Use this quality setting for all JPEG images | ing JPEG imagimage quality, (lowest image This list shows size of a single | puality setting to use when saveraged images, from Best (highest e quality, largest file) to Low st image quality, smallest file). List shows the approximate file of a single saved image. (JPEG wary with the document and extype.) | | Use Medium for decent quality and relatively small files. For better quality, use High or Best. Do not use Low if you want to be able to analyze images later for authenticity. |
| | Format | Grayscale | Color | |
| | BMP | 430 KB | 3800 KB | |
| | JPEG Best | 170 KB | 460 KB | |
| | JPEG High | 110 KB | 220 KB | |
| | JPEG Medium | 50 KB | 100 KB | |
| | JPEG Low | 15 KB | 30 KB | |

Temporary Images and Logs

As iA-thenticate captures images and creates logs, it holds them in memory while it processes the document. As explained above, you can have iA-thenticate preserve these images and logs by saving them to a disk directory; otherwise they are discarded.

In addition, you can have iA-thenticate write the images and logs from memory to the work directory, where they stay only until the next document is processed. Because this takes extra time, you should not use this option unless you have a reason to do so.

| Option | Description | Recommendations | |
|---|--|--|--|
| Write temporary images and logs to the work directory | Writes the selected images and logs from the system's memory to the work directory (page 7-7). The images and logs from each document overwrite those from the previous document. | Do not select any of these except for a specific purpose, such as collecting the images and logs using a custom program. Note: If you want to use the Doc Log option described on page 8-7, you must select Document and MRZ Logs here. | |
| Image format | The graphics file format for saving the temporary images, JPEG or BMP. JPEG files are compressed according to the JPEG Image Quality setting (above). | Select the format you want to use. | |

Configuring iA-Examiner

iA-Examiner is the primary software interface an operator uses for viewing and analyzing the results of iA-thenticate's document testing.

Examiner has a number of options you can configure and several system management functions you can perform. This chapter explains the configuration options, and the next chapter explains the management functions.

To configure the basic operation of an iA-thenticate unit using the iA-Administrator program, see chapter 7, *Configuring iA-thenticate*. You should do that basic configuration before you set the additional options explained in this chapter.

System Configuration Screens

You set configuration options for Examiner from several System Configuration screens.

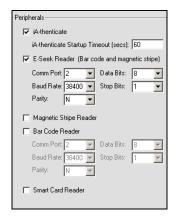
To display the System Configuration screens:

- 1. Run iA-Examiner (Start→Programs→iA-thenticate→iA-Examiner).
- 2. On the iA-Examiner screen, click Mgmt Functions.
- 3. On the Management Functions screen, click System Config.
- 4. To display additional System Configuration pages, click More (and Back, when appropriate).

This chapter describes the options on these screens and recommends appropriate settings.

Configuring Peripherals

(System Configuration Page 1: Peripherals)



| Option | Description | Recommendations |
|---|---|---|
| iA-thenticate | Automatically starts the iA-thenticate system software when Examiner starts. | Leave this selected for normal operation. (If you want to use the unit only to view prior documents and reports using the Viewer and Reports buttons on the Management Functions screen, you can deselect this for faster startup.) |
| iA-thenticate Startup Time- out | The time allowed for iA-thenticate startup and hardware calibration when starting Examiner. | Leave this set at its default value of 60 seconds. |
| E-Seek Reader (Bar code and magnetic stripe) | Enables the E-Seek Intelli-Check combination bar code and magstripe reader (either serial or USB). | Select this if you use one of these readers. Otherwise deselect it. (See note at left.) |
| | | If you select this and you also use iA-DataPort, you must deselect both Mag Stripe Reader <i>and</i> Keyboard Filter in iA-DataPort (page 10-7). Otherwise Examiner will not receive magstripe data. |
| Comm. Port Baud Rate Parity Data Bits Stop Bits | Details of the communication proto- col between iA-thenticate and the E-Seek bar code reader. | Leave these set at their default values: 2, 38400, N, 8, 1 |
| Magnetic Stripe Reader | Enables an optional magstripe reader other than an E-Seek reader. | Select this if you are using a magstripe reader other than E-Seek; otherwise deselect it. If you select this and you also use iA-DataPort, you must deselect both Mag Stripe Reader <i>and</i> Keyboard Filter in iA-DataPort (page 10-7). Otherwise Examiner will not receive magstripe data. |
| Bar Code Reader | Enables an optional 2D bar code reader other than an E-Seek reader. | Select this if you are using a bar code reader other than E-Seek; otherwise deselect it. (See note at left.) |
| Comm. Port Baud Rate Parity Data Bits Stop Bits | Details of the communication protocol between iA-thenticate and the bar code reader. | Leave these set at their default values (2, 38400, N, 8, 1) unless your reader requires different settings. |
| | | 0.1 1.1/ |

Select this if your unit has a smart

card reader (and select the reader type as explained on page 7-5).

Otherwise deselect it.

Enables an optional smart card

reader (for reading embedded chips).

Note

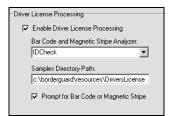
Examiner and iA-DataPort cannot both use the same reader at the same time. If you use iA-DataPort and you select a reader here, you must deselect it in iA-DataPort (page 10-6).

Smart Card

Reader

Configuring Driver's License Processing

(System Configuration Page 1: Driver License Processing)



Note

The iA-License installer sets the Driver License Processing options appropriately. Normally you do not need to change any of these settings.

| Option | Description | Recommendations |
|--|---|--|
| Enable Driver License Processing | Enables or disables driver's license processing according to the options selected below. | Select this if your system has driver's license processing capabilities. |
| Bar Code and Magnetic Stripe Analyzer | Enables validation of the magstripe or bar code on a license or ID card. | Select IDCheck if you have this optional feature. Otherwise select None. |
| Samples Directory Path | The folder containing images of sample driver's licenses and other IDs that iA-License displays on the screen to help you select the correct document type. | Use the default path: C:\BorderGuard\Resources\ DriversLicenseSamples |
| Prompt for Bar Code or Magnetic Stripe | If the operator captures a license or ID without first scanning its bar code or magstripe, the system asks the operator to either do the scan or click the Skip Scan button. The prompt appears only when the document has a bar code or magstripe. | Select this if you want to give the operator a second chance to scan a document's bar code or magstripe. |

Configuring Printing

(System Configuration Page 1: Printing)

You can configure Examiner so the operator can print document results to the system's default printer.

Before this feature will work, you must set up your default printer in the usual way using the Printers control panel (Start—Settings—Printers).



| - Printing |
|---|
| 1 linking |
| Enable Print Button Print in Color |
| Display Printer Errors Print All Images |
| Print Text Watch List Information |
| |

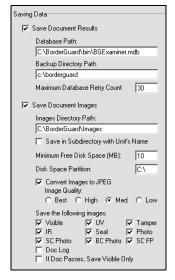
| Option | Description | Recommendations | |
|---|---|--|--|
| Enable Print Button | Activates the Print button on the Examiner screen. | Select this if you want operators to be able to print document results. | |
| Print in Color | Sends color information when printing, including green and red text to mark passed and failed tests. On a color unit, document images print in color. | Select this if you are using a color printer and want the printout in color. | |
| Display Printer Errors | Displays any printer error messages on the Examiner screen. | Select this if you want the operator to see printer error messages. | |
| Print All Images | Prints all captured images on a second page (in addition to the visible image on the main page). | Select this if you want all the images included in the printout. | |
| Print Text Watch List Information | Prints the detailed results of the TextWatch test. | Select this if you have the optional TextWatch feature and want the detailed results included in the printout. | |

Configuring Data Saving

(System Configuration Page 1: Saving Data)

You can set data-saving options here in Examiner or in Administrator. See "Two Ways to Save Images and Logs" on page 7-8 to compare the two methods and decide which options you want to use.

Data Saving Options



| Option | Description | Recommendations |
|------------------------------------|--|--|
| Save Document Results | Saves information and test results for each processed document in the document-results database (.mdb) file you specify. | Select this if you want a text record of each document you process. |
| Database Path | The full pathname of the database file, on a local or mapped network drive. This file, BGExaminer.mdb, is in BorderGuard\Bin\ on the drive designated for storing data—typically C, D, or E. | Use the default directory or one that suits your needs. If you use a directory other than the default, copy the BGExaminer.mdb file from the BorderGuard\Bin directory on the data drive to the directory you specify. Examiner will not create a new file from scratch. You can also specify the same file for several networked units, as explained on page 8-8. |
| Backup Directory Path | The full pathname of the directory for saving a backup copy of the current database, on a local drive or mapped network drive. | Specify the directory you want to use for backing up the database, as explained on page 9-3. |
| Maximum Database Retry Count | If the database is on a network drive, a network or server problem could break your connection to it. The Retry Count tells the system how many times to try reconnecting when this happens. For more information, see page 8-8. | Depending on your network and the type of problem, the default 30 tries could take from 15 seconds to several minutes. You may want to experiment by disconnecting the network cable or shutting down the file server, and then adjust the number for a reasonable delay under those conditions. |

| Option | Description | Recommendations |
|---|--|---|
| Save Document Images | Saves the images you specify for each document you process, in either Windows Bitmap (.bmp) or JPEG (.jpg) format. Gives each file a unique name based on the document type and number (if known), date and time processed, and image type. For example: Utopia passport #12345678, processed 2004-May-18 at 11:55:22, visible image: UTO_P_12345678_ 040518115522_V.bmp Maine type-1 driver's license #987654321, processed 2004-May-18 at 11:55:33, IR image: USA_ME_DL01_987654321_ 040518115533_I.jpg Unidentified document processed 2004-May-18 at 11:55:44, UV image: Unknown_040518115544_U.jpg On a color unit, the image types include a C: VC, IC, and so on. | Select this if you want to save some or all of the images for later reference. Color images take a lot of disk storage space. To avoid problems, your drive should have plenty of free space. To reduce file sizes (but also reduce image quality), use JPEG compression (below). To avoid saving unnecessary images, select only the types you want using Save the following images, below. |
| Images Directory Path | The full pathname of the directory for saving images, on a local drive or mapped network drive. If you specify the same directory for several networked units, you can then view reports that include all the units, as explained on page 8-8. | If you set data-saving options in Administrator as well as here—not recommended—be sure to specify different directory paths to avoid file naming conflicts. Also see the next item, Save in Subdirectory with Unit's Name. |
| Save in Subdi- rectory with Unit's Name | Saves each unit's images in a subdirectory of the images directory (previous item) rather than in the images directory itself. The subdirectory's name is the unit's computer name. | Select this if you want to keep the saved images from different units separate. Important: Do not select this if you want to be able to review prior documents as described in the Viisage iA-Examiner User's Guide. That feature does not work with images saved in separate directories. |
| Minimum Free Disk Space | The amount of disk space (on the specified drive partition) that must be available for Examiner to continue saving images. If the space falls below this amount, Examiner displays a message and stops saving images. | The default value of 10 MB is an absolute minimum. If you are saving images on your C: drive, you should increase this to 100 MB or more to avoid problems with the operating system. |
| Disk Space Partition | The drive partition to monitor for free disk space. | Set this to the same drive you use for the Images Directory Path, typically C: D: or E:\. |

| Option | Description | Recommendations |
|--|---|--|
| Convert Images to JPEG | Saves the images in JPEG (.jpg) format rather than Windows Bitmap (.bmp) using the Image Quality setting you specify (below). | Select this if you want to reduce file sizes at the cost of some image quality. |
| Image Quality | The quality setting to use when saving JPEG images, from Best (highest image quality, largest file) to Low (lowest image quality, smallest file). This list shows the approximate file size of a single saved image. (JPEG sizes vary with the document and image type.) FormatGrayscale Color BMP430 KB 3800 KB JPEG Best170 KB460 KB JPEG High110 KB220 KB JPEG Medium50 KB100 KB JPEG Low15 KB 30 KB | Use Medium for decent quality and relatively small files. For better quality, use High or Best. Do not use Low if you want to be able to analyze images later for authenticity. |
| Save the following images | The types of images and logs to save. In addition to Visible (white light), IR, UV, Seal, and Tamper images, you can also save: Photo: ID photo from visible image SC Photo: ID photo from smart card BC Photo: ID photo from bar code SC FP: Fingerprint from smart card Doc Log: Log detailing how iA-thenticate initially read and analyzed the document—the same as the Extended Doc Log Data listed on System Configuration Page 5 (page 8-24). | Select each image type you want to save. To save the document log: 1. Select Doc Log here. 2. Also select Document and MRZ Logs using iA-Administrator, as described on page 7-12. Also see the next item. |
| If Doc Passes, Save Visible Only | For documents that <i>pass</i> all tests, save only the visible image. For documents that <i>fail</i> any test, save all the selected images. This does not affect saving the document results log. | Select this if you need only a simple "photocopy" of documents that pass all tests. This lets you save disk space while keeping important forensic information about documents that cause alerts. |

Using a Networked Database

Examiner saves document data and test results in the BGExaminer.mdb database, located by default in directory \BorderGuard\Bin on the drive designated for storing data.

If you have several networked iA-thenticate units, you can save their data in a single database on a mapped network drive. You can then review the combined data and generate reports from it, as explained in chapters 3 and 4 of the *Viisage iA-Examiner 4.1 User's Guide*.

If you want to review captured images along with the combined data, you can also save the images from all the units to a common network location.

Performance and Reliability

Before you decide to use a networked database, you should consider performance and reliability.

- □ Saving data on a network takes longer than on a local disk, especially if you save images as well. Be sure your network is fast enough for your application. Instead of saving uncompressed Bitmap images, use JPEG compression to reduce file size.
- ☐ A problem with the network or the file server can disrupt your operations.

If a unit loses its connection to the database, it tries several times to reconnect, as specified by the Maximum Database Retry Count (page 8-5). During this time it displays a progress



bar and prevents any operator actions.

If it cannot reconnect, it lets you proceed but displays No database connection in red. As long as this message appears, the system is *not working normally*. You should not continue using it for production work until the connection is restored.

When the network or server problem is resolved, the unit reconnects automatically within 10 seconds, the red message disappears, and normal operation resumes.

Setting Up a Networked Database

To set up a networked database:

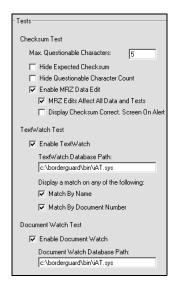
- 1. Copy BGExaminer.mdb from its default location on one of your iA-thenticate units to a network-accessible folder.
- 2. On each iA-thenticate unit:
 - a. Map the database folder or its drive as a network drive.
 - b. Run Examiner. Click Mgmt Functions, then System Config.
 - c. On System Configuration Page 1, under Saving Data, select Save Document Results.
 - d. In the Database Path field, fill in the complete pathname of the networked database—for example, G:\Data\BGExaminer.mdb.
 - e. Specify the Maximum Database Retry Count as explained on page 8-5.

- f. To save images to the network folder as well:
 - Select Save Document Images.
 - In the Images Directory Path field, fill in the pathname of a network folder—for example, G:\Data.
 - To keep images from different units in different subfolders, select Save in Subdirectory with Unit's Name.
 - To make image saving faster, select Convert Images to JPEG and select only
 the image types you need to save. To review document data and images, you
 must select at least the Visible image.

Configuring Tests

(System Configuration Page 2: Tests)

Note: The Viisage iA-Examiner User's Guide has more information about each test.



| Option | Description | Recommendations |
|--|--|---|
| Checksum Test | | |
| Max. Questionable Characters | When a document fails the check- sum test, Examiner shows the MRZ and highlights any characters it had trouble reading. But if there are more questionable characters than the number you specify here, Exam- iner won't highlight any at all. | Use the default value of 5 to avoid overwhelming the operator with too much information when many of the MRZ characters are questionable. |
| Hide Expected Checksum | Suppresses display of the checksum that the system expected to find. | Select this if you do not want the operator to have access to the expected checksum. |
| Hide Questionable Character Count | Suppresses display of the total number of questionable characters. | Select this if you think displaying the number would not help the operator. |
| Enable MRZ Data Edit | Allows the operator to change the captured MRZ data onscreen to correct reading errors. | Select this option only if your operators are equipped to do such detailed analysis of test results. |
| MRZ Edits Affect All Data and Tests | Accepts the operator's MRZ edits as permanent corrections, and changes the results of any affected tests. Otherwise the original data and test results are retained. | Select this if you want the operator's edits to become permanent, overriding the captured data. |
| | Note: If the operator changes MRZ characters to remedy a <i>smart card BAC failure</i> (see page 8-23), those changes are never permanent and do not affect other tests. | |
| Display Checksum Correct. Screen on Alert | Automatically displays the MRZ editing screen when there is a problem with the checksum. | Select this if you want the editing screen displayed automatically. Otherwise the operator must click Edit MRZ to display it. |

Recommendations

| Enable TextWatch | Activates the TextWatch test, which checks a watch list for matching names and document numbers. | Select this if you have the optional TextWatch feature and want to use it. |
|---|--|--|
| TextWatch Database Path | The full pathname of the TextWatch database. The default is C:\BorderGuard\Bin\iAT.sys. | Use the default pathname, or a different one if you have customized it. |
| Match By Name | Searches the watch list for a matching name. | Select the matching options you want to use. If you select both Match |
| Match By Document Number | Searches the watch list for a matching document number. | By Name and Match By Document Number, you will see an alert if <i>either</i> <i>one</i> matches. |
| Document Watch Test | | |
| Enable Document Watch | Activates the Document Watch test, which checks to see if the document number falls within specified ranges. | Select this if you have the optional TextWatch and want to use its Document Watch feature. |
| Document Watch Database Path | The full pathname of the Document Watch database. The default is C:\BorderGuard\Bin\iAT.sys. | Use the default pathname, or a different one if you have customized it. |
| Pattern Tests | | |
| Display Pattern Confidence | Reserved for future use | _ |
| Legal Age Test | | |
| Enable Legal Age Test | Activates the legal age test, which checks to make sure the document owner is at least a certain age. | Select this if you want to test for legal age. |
| Minimum Legal Age | Defines the legal age you are testing for. | Set this to the legal age you want to test for, such as 21. |
| Document Cross-Check Test | | |
| Enable Document Cross-Check Test | Activates the document cross-check test, which compares information across the documents in a set. | Select this if you have enabled document sets (page 8-13) and want to use this cross-check test. |
| Smart Card Test | | |
| Enable Smart Card Cross- Check Test | Activates the smart card cross-check test, which compares MRZ information read from the smart chip and the document image. | Select this if you have a smart card reader and want to use this cross-check test. |



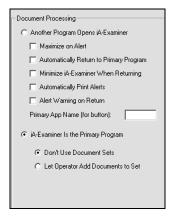
Option

TextWatch Test Description

| Option | Description | Recommendations |
|---|---|---|
| Identification Test | | |
| Enable Identification Test | Tells the system to report, along with the other test results, whether it was able to automatically identify the document. Note: The system <i>always</i> tries to identify the document automatically. This option only affects whether Identification is <i>listed</i> as a separate test. | Keep this selected unless you do not want to display Identification as a separate test. |
| Fail Tests If Results Are Indeterminate | Some tests can show an indeterminate result if their results are incomplete or inconclusive. These include Verification Database, DL Alert 2D, DL Alert MSR, and custom tests. This option tells the system to treat such a result as a failure so that it causes an alert. | Select this if you want indeterminate results to cause an alert. |
| Custom Tests | Controls additional tests designed for custom applications. For further information, contact Viisage Customer Support and request the Tech Note titled <i>Information for iA-thenticate Integrators</i> . | Leave all the Enable Custom Test options deselected unless you know they apply to your application. |

Configuring Document Processing

(System Configuration Page 3: Document Processing)



| Option | Description | Recommendations |
|---|--|---|
| Another Program Opens iA-Examiner | Used when the operator works primarily with a program other than Examiner, and works with Examiner only as a supplement to the primary program. | Select the appropriate option for your work environment—either this one or iA-Examiner is the Primary Program (below). |
| Maximize on Alert | Causes the Examiner screen to come to the front automatically whenever a document requires review. Note: Examiner always maximizes if it requires some <i>action</i> by the operator. It then minimizes automatically if Minimize iA-Examiner When Returning is selected (below). | If you want Examiner to appear automatically, select this. If you want the operator to see Examiner only after manually selecting it from the primary program, deselect this. |

| Option | Description | Recommendations |
|---|---|--|
| Automatically Return to Pri- mary Program | Causes the primary program to come to the front automatically when the operator finishes reviewing a document. | If you want to return to the primary program automatically without having to click Clear, Cancel, or the program's button (below), select this. |
| Minimize iA-Examiner When Return- ing | Causes the Examiner screen to be minimized (rather than simply hidden behind the primary program screen) when returning to the primary program. | Select this if you want the Examiner screen out of the way when it isn't in use. |
| Automatically Print Alerts | Automatically sends a report to the default printer when the operator leaves one or more problems unresolved during a review. | Select this if you want a paper record of unresolved document problems. |
| Alert Warning on Return | Tells the primary program to display an alert if any of the document's pos- sible problems have not been resolved during the Examiner review. | Select this if you want an extra warning for the operator that the document has unresolved problems. |
| Primary App Name (for but- ton) | The program name to display on the Return to button that takes the operator back to the primary program. For example, if you type Master here, the button will say Return to Master. | Specify the program name for the button. |
| iA-Examiner Is the Primary Program | Used when the operator works primarily with Examiner (rather than with another program). | Select the appropriate option for your work environment—either this one or Another Program Opens iA-Examiner (above). |
| Don't Use Doc- ument Sets Let Operator Add Docu- ments to Set | Store each document's results independently of other documents. Let the operator group 2–4 documents together in a set so their results are linked and can be compared. | If you want to be able to group several related documents together in a set, select Let Operator Add Documents to Set. In addition, on System Configuration Page 1, you must: • Select Save Document Results. • Select Save Document Images, and select at least the Visible image. If you don't want to group documents in sets, select Don't Use Document Sets. |

Configuring Verification Databases

(System Configuration Page 3: Verification Databases)

A verification database is an external database that iA-thenticate can reach through an Internet connection to verify certain information about documents and their owners. To use a verification database, you must be a registered subscriber.

Currently iA-thenticate supports the VerifyME™ verification database.

About VerifyME

The VerifyME database includes information from U.S. states and Canadian provinces for verifying driver's licenses and nondriver IDs. It also includes information from countries worldwide for verifying the format of passport numbers.

U.S. and Canadian Driver's Licenses and IDs

When you process a U.S. or Canadian driver's license or nondriver ID, iA-thenticate typically reads information from its 2D bar code or magstripe. (Information can also come from other sources such as operator entry.) iA-thenticate uses this information to consult the VerifyME database. It can then display information retrieved from the database and point out certain kinds of discrepancies.

U.S. and Canadian information comes from departments of motor vehicles (DMVs) and voter registration offices. The sources vary by state and province. In general, DMV data tends to be more detailed and helpful for verifying documents and identifying their owners.

Examiner lets you specify, for each state and province, whether you want to consult the VerifyME database. If you find that you rarely get useful information from a certain jurisdiction, you can turn off database lookups for documents issued by that jurisdiction. This saves you the processing time needed for the lookup, any fee associated with it, and the bother of retrieving and possibly correcting unhelpful data.

When Examiner shows you the results of a database lookup, it lists the source of the data as either DMV or Voter. This information can help you make decisions about which jurisdictions to include in your database lookups.

Passport Number Format

When you process a passport, iA-thenticate typically reads information from its MRZ. (As with driver's licenses and IDs, the information can also come from other sources.) iA-thenticate then checks the format of the document number against the VerifyME database and reports any problems.

This test is more limited than with driver's licenses and IDs but does help detect forged or altered document numbers.

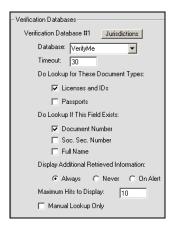
Note

You can find a current list of jurisdictions supported by VerifyME in the Support area of the Viisage web site:

www.viisage.com

Configuring VerifyME

Set these options on System Configuration Page 3:



| Option | Description | Recommendations |
|---|--|--|
| Verification Database #1 | | |
| Jurisdictions | The jurisdictions for which you want to consult this database when processing U.S. and Canadian driver's licenses and IDs. Select Jurisdictions to see the list, and then select or deselect individual jurisdictions. | Start with the default selections, which are all the jurisdictions covered by this database. If experience proves some to be unhelpful, deselect them. |
| Database | The name of the verification database you subscribe to. | Select VerifyMe. |
| Timeout | The maximum time you are willing to wait for a response from this database before Examiner cancels the lookup request (in seconds). | Use the default value of 30 seconds unless this is unacceptably long in your work environment or you are willing to wait longer for results. The operator cannot proceed with document processing until the lookup either succeeds or times out. |
| Do Lookup For These Docu- ment Types: Licenses and IDs Passports | The types of documents for which you want to do lookups. | Select the types you want to be able to look up using VerifyME. |
| Do Lookup If This Field Exists: Document Number Soc. Sec. Number Full Name | Tells iA-thenticate what information is required before it can do a lookup. For example, if you select Document Number, iA-thenticate requires the document number before it does a lookup. If you select more than one, iA-thenticate can do a lookup whenever it knows <i>any</i> of them. | For the VerifyME database, select Document Number and Full Name. Do not select Soc. Sec. Number. |
| Display Additional Retrieved Information: Always Never On Alert | Tells Examiner when to display additional information after a lookup, which can include phone number, Social Security number, current address, and previous addresses. | Select one of the options. |

| Option | Description | Recommendations |
|-------------------------|---|--|
| Maximum Hits to Display | Not used for VerifyME. | _ |
| Manual Lookup Only | Disables automatic database look- ups, so that the operator must click the Issuer DB button to do a lookup. | Leave this deselected if you want iA-thenticate to do a lookup automatically for any document that meets the requirements set up for this database. Select this if you want <i>no</i> automatic |
| | | lookups. The operator must then click Issuer DB to do a lookup. |

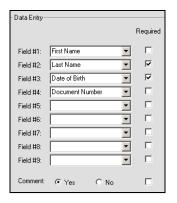
In addition, you must set up data entry fields so that iA-thenticate can prompt the operator for any missing information that is required for the lookup.

♦ On System Configuration Page 4, under Data Entry, select these for four of the listed fields: First Name, Last Name, Document Number, and Postal Code. You can leave the Required checkboxes deselected unless you have a reason to select them.

For general information about configuring data entry, see the next section.

Configuring Data Entry





| Option | Description | Recommendations |
|--------------------------|---|--|
| Field #1 Field #9 | A list of fields for the data entry screen, which allows the operator to enter any missing information. The data entry fields appear in the same order you select here. If you mark a field as Required, then the system automatically displays the data entry screen whenever it can't find the required information. | From the drop-down lists, select each field you want to appear on the data entry screen. If you want the data entry screen to appear automatically when the system can't find the information for a certain field, select Required. To include a custom field, select User Field #1, #2, or #3 and see "Configuring Static Database Information" on page 8-17. If you select Required for one of these fields, the system will always display the data entry screen. Note: To also let the operator display the data entry screen manually, select Enable Edit Button (page 8-20). |
| Comment | Specifies whether the data entry screen includes a Comment field where the operator can type additional information. | Select Yes or No to include the Comment field or not. To include the Comment field and always display the data entry screen, select both Yes and Required. |

Configuring a Custom ID Type

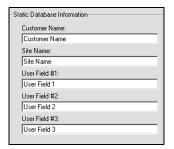
(System Configuration Page 4: Custom ID Type)



| Option | Description | Recommendations |
|-----------------------------------|--|---|
| Enable Custom ID Button | Displays an additional button on the jurisdiction selection screen for processing a custom type of ID—or any other kind of document, such as a ticket or boarding pass. | Select this if you want the operator to be able to use this button. |
| Custom ID Type | The name to display on the button. | Use a name no more than about 30 characters long. After you configure the custom ID button, check the jurisdiction selection screen to make sure the text fits on the button. |
| Default Image Display | The image to display by default on the test results screen, either Visible or IR. | Select the image that shows the most relevant information for the operator. The operator can also display the other images as usual. |
| Don't Save Custom ID Images | Tells Examiner not to save document images whenever the operator uses the custom ID button. This prevents saving images if you have selected Save Document Images in Examiner (page 8-5). However, it does not prevent saving images if you have enabled image saving using iA-Administrator (page 7-10). | Select this if you don't want the images of this custom document type saved for any reason, such as privacy or security. Note the important condition in the description. |

Configuring Static Database Information

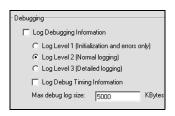
(System Configuration Page 4: Static Database Information)



| Option | Description | Recommendations |
|---|--|--|
| Customer Name Site Name | Names stored in the document results database (page 8-5), intended for use in custom reports that you might generate from the database. | Fill in any suitable names. |
| User Field #1 User Field #2 User Field #3 | Names for custom fields, to hold any kind of information you want collected along with the documents you process. For example, you might name two fields Spouse's Name and Child's Name so the operator can enter this information as needed. | Assign suitable names for up to three custom fields. To make these fields appear on the data entry screen so the operator can fill them in, see the earlier section "Configuring Data Entry." To fit more characters into the name, avoid using lots of capital letters. |

Configuring Debugging

(System Configuration Page 4: Debugging)



| Option | Description | Recommendations |
|------------------------------|--|--|
| Log Debugging Information | Creates a log of information useful for diagnosing problems. | Do not select this unless Viisage Customer Support asks you to do so for troubleshooting purposes. |

Configuring Processing of Unidentified Documents

(System Configuration Page 4: Processing Unidentified Documents)

Note

For information about creating and using a custom database of nonstandard documents, contact Viisage Customer Support.

iA-thenticate can automatically identify documents that conform to ICAO standards for machine-readability. With the optional iA-License feature, it can also automatically identify many nonstandard (non-ICAO) documents such as driver's licenses and non-driver IDs.

But what should happen if the operator processes a document that iA-thenticate cannot automatically identify? If you have iA-License or a custom document database, Examiner can display selection screens that let the operator manually identify the document. Or, Examiner can process every unidentified document in a predetermined way.

The following table explains the five available options. In most cases, either the first or last option is most suitable:

- ☐ If you have iA-License or a custom document database:
 - Use the first option (Go to the jurisdiction selection screen) for the most flexibility in identifying and testing documents.
 - Use the last option (Process as a nonstandard document) if you usually want to simply capture unidentified documents without trying to identify or test them.
- ☐ If you do *not* have iA-License or a custom database, always use the last option (Process as a nonstandard document).



| Option | Description | Recommendations |
|--|--|--|
| Go to the jurisdiction selection screen | For an unidentified document, display the appropriate screen or screens for selecting its issuing jurisdiction and document type. | If you have iA-License or a custom document database, this is the most flexible option. |
| Go to the following jurisdiction screen | For an unidentified document, display a jurisdiction-selection screen other than the top-level one—for example, the one that shows all jurisdiction names starting with D. | Consider this option if: • You have a custom document database for a certain jurisdiction, and the database does not include automatic document identification. |
| | | You have iA-License, but you regularly process documents that the system doesn't identify, all from a certain jurisdiction. |
| | | The operator can still display jurisdiction screens other than the one you specify here. |
| Process as category | Always process an unidentified document as a certain type—for example, a Delaware Nondriver ID. | Consider this option if most of the unidentified documents you process are of the same type. |
| Country Code | The ICAO country code associated with this document type—for example, USA. | You must fill in the country code, and you may optionally fill in the jurisdiction name. |
| Jurisdiction | The name of the issuing jurisdiction—for example, Delaware. May be blank. | The operator can still use the Retest button (if enabled) to retest a document as a different type. |
| Display the following document choices | For an unidentified document, display a list of up to six document types to choose from. | Consider this option if most of the unidentified documents you process are of just a few types (six or less) issued by two or more jurisdictions. |
| Display the most recently used documents as the remaining choices | If the list includes less than six types, then also display the most-recently-chosen document types as other options to choose. | If you routinely process less than six types but occasionally process oth- ers, list the routine types and also select Display the most recently used documents as the remaining choices. |
| | | The operator can always choose a different document type using the Select Jurisdiction button. |
| Process as a nonstandard document | For an unidentified document, don't display any special screens for selecting its type or issuing jurisdiction. Simply display the document's image without testing it. | Use this option if you don't have iA-License or a custom document database. Also consider it if you want the system to simply capture unidentified documents without testing them, or you only occasionally want to test unidentified documents (using the Retest button). |

Configuring Display Options

(System Configuration Page 5: Display Options)

Main Screen

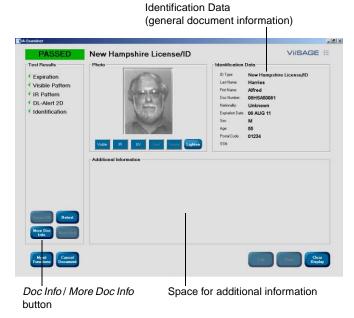
| - Display Options | |
|----------------------------------|--|
| Main Screen | |
| Enable Cancel Button | |
| ▼ Enable Edit Button | |
| ▼ Enable Retest Button | |
| Display Security Level | |
| Display Doc Info Screen on Alert | |
| | |

| Option | Description | Recommendations |
|--|--|---|
| Enable Cancel Button | Adds a Cancel Document button that lets the operator cancel evaluation of a document after capturing it. This button does <i>not</i> delete any saved test results or captured images, but it does exclude the canceled doc- | Select this if you want the operator to be able to cancel evaluation of documents. |
| Enable Edit Button | ument from reports. Adds an Edit button that lets the operator display the data entry screen for manually entering information. | Select this if you want the operator to be able to display the data entry screen even when the system doesn't display it automatically. |
| | This option applies only if you have selected fields to appear on the data entry screen as described under "Configuring Data Entry," page 8-16. | |
| Enable Retest Button | Adds a Retest button that lets the operator retest the document (usually without having to recapture it) as a <i>different type</i> of document. This is used when the system doesn't identify the document type correctly the first time. It requires the optional iA-License feature or a custom document database. | Select this if you have iA-License or a custom document database and want to enable this feature. See "Configuring Processing of Unidentified Documents," page 8-18, for more information. |
| Display Security Level | Used with iA-Passport, displays a number after the word REVIEW indicating the level of security testing done—for example, REVIEW 2. See the <i>iA-Passport Database Reference</i> (on the iA-Passport CD) for security level information. | Select this if you have iA-Passport and you want the operator to see and consider this information. |
| Display Doc Info Screen on Alert | When a document causes an alert, Examiner normally displays information about the first alert. Selecting this option causes Examiner to display general document information instead—as it does when a document passes all tests. The screen still lists all passed and failed tests, and the operator can click any one for more information. | Select the behavior you prefer. |

Additional Information Display

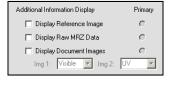
When the Examiner screen is not displaying the results of a selected test, it displays Identification Data—general document information including ID type, last and first names, document number, and so on. The operator sees this information:

- ☐ When a document passes all tests
- ☐ When a document causes an alert and the Display Doc Info Screen on Alert option (above) is selected
- ☐ By clicking Doc Info anytime



You can use the following options to let the operator see several kinds of additional information. The Doc Info button then becomes More Doc Info, and clicking it displays each kind of information in turn.

You can also tell Examiner which kind of additional information to display first.



| Option | Description | Recommendations |
|-------------------------------------|---|---|
| Display Reference Image | Show the sample or reference image for the processed document, if there is one. | Select each kind of information you want to let the operator see. If you always want one kind to appear first, select the radio button next to it, under Primary. (To clear the radio-button selection, deselect the corresponding checkbox. Then you can re-select the checkbox if you want to.) |
| Display Raw MRZ Data | Show the captured MRZ and the system's reading of it (ICAO documents only) | |
| Display Document Images Img 1 Img 2 | Show two of the captured document images side-by-side for comparison. You select the two images from the Img1 and Img2 lists. | |

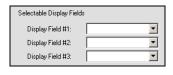
Selectable Display Fields

By default, Examiner displays this information under Identification Data:

ID Type Expiration Date
Last Name Sex
First Name * Age

Doc Number * Postal Code Nationality * (blank field)

You can customize the last three fields. For each one you can choose Age, Postal Code, SSN (Social Security Number), or one of three custom fields.



| Option | Description | Recommendations |
|--|--|--|
| Display Field #1 Display Field #2 Display Field #3 | The last three fields to display under Identification Data (shown when the operator clicks Doc Info). | Choose the information you want displayed. |
| , , | UserField1, UserField2, and UserField3 correspond to the matching entries for Static Database Information (page 8-17). | |

Document Viewer

| Document Viewer |
|-----------------------------|
| ☐ Display Viewer Image Path |
| |

| Option | Description | Recommendations |
|------------------------------|---|---|
| Display Viewer Image Path | When using the document viewer (Mgmt Functions—Viewer), show the full pathname of the displayed document image. | Select this if you want to be able to easily locate the saved image file while using the document viewer. |

Configuring Smart Card Options

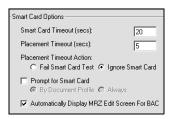
(System Configuration Page 5: Smart Card Options)

If your unit has a smart card reader, you can use the options in this section to adjust the way it operates.

About Basic Access Control

Some smart cards use *Basic Access Control* (BAC). To read information from the chip, the system must supply codes based on information it has already read from the document's printed MRZ. If iA-thenticate misreads the MRZ, access to the chip may be blocked. In this case the operator must correct the information manually before the chip can be read.

Smart Card Options



| Option | Description | Recommendations |
|--|---|---|
| Smart Card Timeout (sec) | The amount of time allowed to read the information from the smart card. | Use the default value of 20 seconds. |
| Placement Timeout (sec) | The amount of time allowed to detect a smart card after the system prompts the operator to place the document on the platform. | Use the default value of 5 seconds—long enough to let the operator place the document but short enough to time out quickly if no chip is present. |
| Placement Timeout Action | The test result to record if the system does not detect a smart card before the Placement Timeout expires. | |
| | Fail Smart Card Test: Record the smart card test as failed | |
| | Ignore Smart Card: Record no result for the smart card test, just as if the document had no smart card | |
| Prompt for Smart Card | If the operator captures a document but does not scan its chip, the system prompts the operator to scan it (and waits for the scan until the Placement Timeout expires). | Select this if you want to give the operator a second chance to scan a document's chip with the embedded reader. |
| By Document Profile Always | By Document Profile means the prompt appears only if the document profile database indicates that this document has a smart chip. Always means the prompt appears for all documents. | Select the option you prefer. |
| Automatically Display MRZ Edit Screen for BAC | If access to the card is blocked because the system has misread the MRZ, automatically display the screen that lets the operator correct misread MRZ characters. | Select this to display the edit screen automatically as needed. Otherwise the operator must click Retry to display the edit screen when needed. |

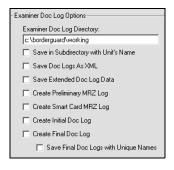
Configuring Examiner Doc Log Options

(System Configuration Page 5: Examiner Doc Log Options)

As explained under Configuring Data Saving (page 8-5), Examiner can save document information and test results in the document-results database.

In addition, Examiner can create plain-text or XML log files containing document information and test results. In general, these log files are useful only if you have custom software that reads information from them as they are created. If you have no specific use for such files, you should leave all of the following Doc Log options deselected.

You can preserve the *final* document logs if you like. All the others are temporary files, overwritten with each new document.



| Option | Description | Recommendations |
|--|--|--|
| Examiner Doc Log Directory | The directory for creating Examiner document logs. | Use C:\BorderGuard\Working unless you have a reason to use a different directory. You might want to use a network directory accessible to a number of iA-thenticate units. |
| Save in Subdirectory with Unit's Name | Creates each unit's logs in a subdirectory of the log directory rather than in the log directory itself. The subdirectory's name is the unit's computer name. | Select this if you want to create the logs from different units in a common location but in separate subdirectories. |
| Save Doc Logs as XML | Creates all the logs in XML rather than plain-text format. | Select this if you want XML logs. |
| Save Extended Doc Log Data | Includes additional information in the initial and final document logs detailing how iA-thenticate read and analyzed the document. | Do not select this unless you need the additional details. If you select it, you must also select Document and MRZ Logs using iA-Administrator, as described on page 7-12. |
| Create Preliminary MRZ Log | Reserved for future use. | Do not select this option. |
| Create Smart Card MRZ Log | Creates a file containing MRZ information from the smart card: ExaminerSmartCardMRZLog.txt (.xml) This same information is included in the initial and final document logs. | Select these options only if you use software that reads and processes this information. |
| Create Initial Doc Log | Creates a file containing initial document information and test results—before the operator takes any actions to correct or override test results: ExaminerInitialDocLog.txt (.xml) | |

| Option | Description | Recommendations |
|---|--|--|
| Create Final Doc Log | Creates a file containing final document information and test results—after the operator has finished with the document: ExaminerFinalDocLog.txt (.xml), unless you select the next option. | Select this if you use software that reads and processes the information, or if you want to preserve the final logs for later use. |
| Save Final Doc Logs with Unique Names | Gives the final document log a unique name rather than overwriting it with each new document. | Select this if you want to preserve a copy of each final document log. |

Configuring System Directories

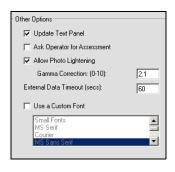
(System Configuration Page 5: System Directories)

| System Directories | _ |
|--------------------------------------|---|
| Document Summaries Directory: | |
| c:\borderguard\summaries | |
| Custom or Special Samples Directory: | |
| c:\borderguard\resources\samples | |
| | |

| Option | Description | Recommendations |
|--|--|--|
| Document Summaries Directory | The directory used for: • The results of searches you perform using the Document Viewer (Viisage iA-Examiner User's Guide, chapter 3) | Use the default pathname: C:\BorderGuard\Summaries |
| | • Temporary files for the data transmission feature (page 8-28). | |
| Custom or Special Samples Directory | The directory for storing sample images for custom configurations. | Use the default pathname: C:\BorderGuard\Resources\Samples |

Configuring Other Options

(System Configuration Page 5: Other Options)



| Option | Description | Recommendations |
|---------------------------------|--|---|
| Update Text Panel | Displays document information on iA-thenticate's built-in text panel. | Leave this selected. |
| Ask Operator for Assessment | Each time a document is captured, displays a screen requiring the operator to judge the document's authenticity before seeing the iA-thenticate test results. | Leave this deselected unless you want operators to prejudge the authenticity of each document. |
| Allow Photo Lightening | Adds Lighten and Restore buttons to let the operator adjust the appearance of the document's ID photo. If you are saving the photo image, it is saved <i>as displayed</i> on the screen. | Select this if you notice that ID photos tend to be too dark on the screen and when saved as images. |
| Gamma Correction | The amount of lightening to apply to the displayed ID photo when the operator uses the Lighten button, from 1 to 10: 1: No lightening at all 10: Extreme lightening (Values between 0 and 1 actually darken the image.) | Try the default value of 2.1. If the lightened photo is still too dark, try a slightly higher value such as 2.5 or 3.0. If it's too light, try a slightly lower value such as 1.8 or 1.5. |
| External Data Timeout (secs) | The maximum total time you are willing to wait for responses from all external databases. | Use the default value of 60 seconds unless this is unacceptably long in your work environment or you are willing to wait longer for results. |
| Use a Custom Font | Display screen text using the font you select from the list. | Leave this deselected unless you have a special reason to use it. Changing the font can make the screen hard to read or even unusable. |
| | | To restore the default font, deselect this option. |
| | | Restart iA-Examiner after making any font change. |

Configuring Test Suppression

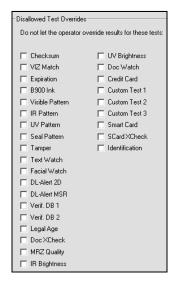
(System Configuration Page 6: Suppressed Test Results)

| - Suppressed Test Results | | |
|--|------------------|--|
| Ignore the results of these tests and do not display them on the screen: | | |
| ☐ Checksum | UV Brightness | |
| ☐ VIZ Match | Doc Watch | |
| ☐ Expiration | Credit Card | |
| ☐ B900 Ink | Custom Test 1 | |
| ☐ Visible Pattern | Custom Test 2 | |
| ☐ IR Pattern | Custom Test 3 | |
| UV Pattern | Smart Card | |
| Seal Pattern | SCard XCheck | |
| ☐ Tamper | ☐ Identification | |
| ☐ Text Watch | | |
| Facial Watch | | |
| ☐ DL-Alert 2D | | |
| □ DL-Alert MSR | | |
| ☐ Verif. DB 1 | | |
| ☐ Verif. DB 2 | | |
| ☐ Legal Age | | |
| ☐ Doc XCheck | | |
| ☐ MRZ Quality | | |
| ☐ IR Brightness | | |

| Option | Description | Recommendations |
|---|---|---|
| Checksum VIZ Match Expiration | Tells the system to ignore the selected test when evaluating a document for problems and not display its results for the operator. However, if the test is included in the document profile, the system still performs the test and records its results in the document-results database as usual. | Leave all the tests deselected so they are not suppressed. Do not select any tests to suppress except for troubleshooting or other special purposes. |

Configuring Test Override Options

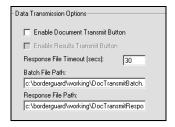
(System Configuration Page 6: Disallowed Test Overrides)



| Option | Description | Recommendations |
|---|---|---|
| Checksum VIZ Match Expiration | Prevents the operator from overriding the results of the selected type of test. | Select any tests the operator is not allowed to override because of security or operational policies. Note: Even if you select Checksum here, the operator may still be able to change the results of the checksum test. To prevent that, you must deselect Enable MRZ Data Edit, as explained on page 8-10. |

Configuring Data Transmission Options

(System Configuration Page 6: Data Transmission Options)



| Option | Description | Recommendations |
|---------------------------------------|--|--|
| Enable Document Transmit Button | Activates the Send Current Document button on the Management Functions screen. | Select this if you want to be able to transmit document images and test results to another computer on your network for archiving or further analysis. |
| Enable Results Transmit Button | Reserved for future use. | _ |
| Response File Timeout | For information about using the data Customer Support. | transmission feature, contact Viisage |
| Batch File Path | | |
| Response File Path | | |

Configuring Credit Card Options

(System Configuration Page 6: Credit Card Options)

| - Credit Card Options | |
|---|-----------------------|
| • | |
| Display the Card Numb | oer As: |
| C Full Number | |
| Save the Card Numbe | r in the Database As: |
| Full Number | C Last 4 Digits |
| Default Image Display for Credit Cards: | |
| C Visible | ⊙ UV |
| Don't Save Credit Card Images | |

| Option | Description | Recommendations |
|---|---|---|
| Display the Card Number As | Tells Examiner how much of a credit card number (read from the magstripe) to display on the screen. This also affects the number saved when you use the Create Results button (Mgmt Functions—Viewer—Create Results). | If the operator needs to see the full number, select Full Number. Other- wise select Last 4 Digits. |
| Save the Card Number in the Database As | Tells the system how much of the credit card number to save in the document results database and in the Examiner Doc Logs (page 8-24). | If you need to save the full number, select Full Number. Otherwise select Last 4 Digits. |
| Default Image Display for Credit Cards | The image to display by default on the test results screen, either Visible or IR. | Select the image that shows the most relevant information for the operator. The operator can also display the other images as usual. |
| Don't Save Credit Card Images | Tells Examiner not to save document images for credit cards. This prevents saving images if you have selected Save Document Images in Examiner (page 8-5). However, it does not prevent saving images if you have enabled image saving using iA-Administrator (page 7-10). | Select this if you don't want credit card images saved for any reason, such as privacy or security. Note the important condition in the description. |

Configuring iA-Examiner

Managing iA-Examiner

iA-Examiner includes management functions for purging saved data, backing up saved data, and temporarily disabling verification databases. This chapter explains these functions.

The System Management Screen

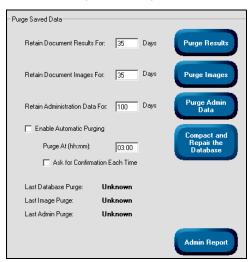
You manage Examiner from the System Management screen.

To display the System Management screen:

- 1. On the iA-Examiner screen, click Mgmt Functions.
- 2. On the Management Functions screen, click System Management.

Purging Saved Data





| Option | Description | Recommendations |
|--------------------------------------|---|---|
| Retain Document Results For | How many days' worth of document results to keep in the database when using either manual or automatic purging. For example: 0: Purge everything 1: Keep only today's data 2: Keep yesterday's too | Set to suit your needs. |
| Purge Results | Purges document results now, retaining recent results as specified. | Use this for manual purging, or set up automatic purging (below). |
| Retain Document Images For | How many days' worth of document images to keep in the saved-images folder when purging. | Set to suit your needs. |
| Purge Images | Purges images now, retaining recent images as specified. | Use this for manual purging, or set up automatic purging (below). |
| Retain Administration Data For | How many days' worth of actions to keep in the administration report when purging. (See Admin Report, below.) | Set to suit your needs. |
| Purge Admin Data | Purges the administration report now, retaining recent actions as specified. | Use this for manual purging, or set up automatic purging (below). |
| Enable Automatic Purging | Tells the system to purge document results, images, and administration data automatically each day, retaining recent results, images, and data as specified. | Use this if you want to purge data automatically. The system does not back up files automatically, so be sure to do regular backups (page 9-3) if you need to keep files and data beyond the retention period you set. |

| Option | Description | Recommendations |
|---------------------------------------|---|---|
| Purge At (hh:mm) | Sets the time of day for automatic purging, using 24-hour time (0:00–23:59). | Specify a time when the system is running but not in heavy use. |
| Ask for Confirmation Each Time | Requires the operator to confirm each automatic purge before it happens. | Select or deselect this to suit your needs. |
| Compact and Repair the Database | Runs the Compact and Repair Database utility within Microsoft Access, which optimizes performance and repairs damage. | Periodically use this option to improve performance and prevent problems. |
| Admin Report | Displays a report of administration actions, including manual and automatic purges and database maintenance. | Use this to see the report anytime. |

Backing Up Saved Data

(System Management: Back Up Saved Data)



| Option | Description | Recommendations |
|--------------------|--|--|
| Back Up Results | Copies the document results database from the database directory to the backup directory. You specify these directories on System Configuration Page 1, as explained in the table on page 8-5. Note: Each backup copy <i>overwrites</i> the previous backup copy. | Periodically use this option to preserve a backup copy of the database in a safe location. |

Temporarily Disabling Verification Databases

(Management Functions)



| Option | Description | Recommendations |
|--------------------------------------|---|---|
| Disable Verification Databases | Disables database lookups entirely until you re-enable them or until you exit and restart Examiner. | Select this to disable lookups temporarily for any reason, such as a problem with your Internet connection. |

Part Three

Using Optional Features

10 Using iA-DataPort

iA-thenticate includes a data transmission feature called iA-DataPort™. It can route data captured from a document's MRZ, magstripe, and 2D bar code to:

- ☐ A program running on the iA-thenticate unit
- ☐ Another PC through a standard serial port
- ☐ A virtual serial port (using third-party software)

Your own software can then process and store the data to meet your needs.

Preparing to Use iA-DataPort

Choosing Where to Send Data

DataPort can send captured data to a program, a standard serial port, or a virtual port.

Sending Data to a Program

If you want to send data to a program running on the iA-thenticate unit, select the Simulated Keyboard option and choose related options as explained on page 10-7.

Sending Data Through a Serial Port

If you want to send data to another PC through a standard serial port, you need:

- ☐ An available serial port on your iA-thenticate unit (either on the back of a Plus unit or on the PC that a standard unit is attached to)
- ☐ An available serial port on the other PC
- ☐ A null-modem serial cable

To use the serial port connection:

- 1. Attach the null-modem cable between the serial ports on the iA-thenticate unit and the other PC.
 - By default, iA-DataPort sends data through the COM 1 port. (On a Plus unit, this is the lower serial connector.) If you use a different port number, you must change the communication port settings to match, as described on page 10-8.
- 2. Select the Communications Port option as explained on page 10-7.

Sending Data Through a Virtual Port

Sending data through a virtual serial port allows another program running on the iA-thenticate unit to receive and process the data as if it were coming in through a standard serial port.

To use a virtual serial port:

- ♦ Install and configure appropriate third-party software for setting up a virtual serial port on your iA-thenticate unit.
- ♦ Select the Communications Port option as explained on page 10-7.

Note

A standard color iA-thenticate unit attaches to its host PC through COM 1 by default. If your unit is set up this way, you must change the port that iA-DataPort uses.

Note

If you use the E-Seek Intelli-Check reader, you do *not* need this filter.

Using the Optional Keyboard Filter

If you want to transmit data from a magstripe reader *other than* the E-Seek Intelli-Check combined magstripe and bar code reader, you may want to install and use the optional keyboard filter provided with iA-DataPort.

A magstripe reader sends data as if it were typed on a keyboard. Depending on how you use your unit, magstripe and keyboard data can sometimes be sent to the wrong program. The keyboard filter can prevent this problem by recognizing magstripe data and sending it to iA-DataPort, no matter which other programs are running.

After installing the filter, you can enable or disable it anytime as explained on page 10-7.

To install the optional keyboard filter:

| Windows XP | | |
|---|--|--|
| 1. Open the System control panel. On the Hardware tab, click Device Manager. | | |
| In the Device Manager window, expand the Keyboards item. Then right-click the current keyboard and select Properties. | | |
| 3. On the Driver tab, click Update Driver. | | |
| 4. On the Welcome to the Hardware Update Wizard screen, select Install from a list or specific location and click Next. | | |
| 5. On the next screen, select Don't search. I will choose the driver to install. Then click Next. | | |
| 6. On the next screen, click Have Disk. | | |
| 7. On the Install from Disk screen, click Browse and select the file C:\BorderGuard\Tools\MagStripeFilter\ IAMSFilter.inf 8. On the Install from Disk screen, click OK. | | |
| | | |
| message This driver is not digitally signed, click Next. | | |
| 10.On the Upgrade Driver Warning screen, click Yes. | | |
| 11.On the next warning screen, click Continue Anyway. | | |
| 12.On the Completing the Hardware Update Wizard screen, click Finish. | | |
| 13.Close the IAI Magstripe Filter Driver Properties window. In the System Settings Change window, click Yes to restart. | | |
| | | |

Starting iA-DataPort

You start iA-DataPort by running the iA-DataPort Utility. As explained in the rest of this chapter, the utility lets you:

- ☐ View data as it is captured from the MRZ, magstripe, and 2D bar code
- ☐ Configure various settings for capturing, displaying, formatting, and transmitting the captured data
- ☐ Test the operation of each information-capture device

Starting the iA-DataPort Utility

To run the iA-DataPort Utility and start iA-DataPort:

♦ Double-click the iA-DataPort Utility icon on your desktop. Or, select Start→Programs→iA-thenticate→iA-DataPort.

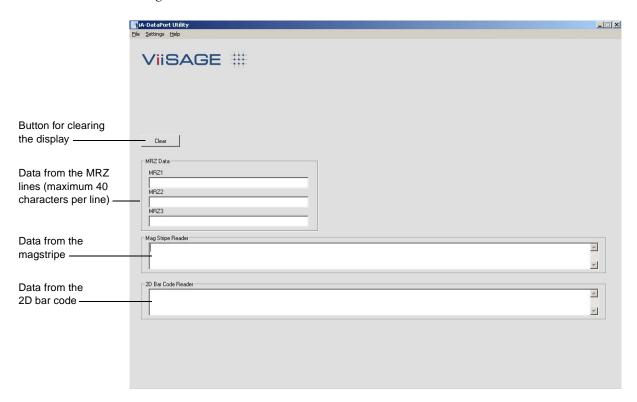
Running the Utility Minimized

In most cases you can run the iA-DataPort Utility minimized (if you want to do so) while you process documents.

However, you *cannot* run it minimized if you are using a "keyboard wedge" magstripe reader *without* using the optional keyboard filter described on page 10-3.

Viewing Captured Data

The iA-DataPort Utility window shows the data captured from the MRZ lines, magstripe, and 2D bar code, highlighted in yellow. You can clear the displayed data by clicking Clear.



Configuring Settings

Using the Settings menu, you can configure:

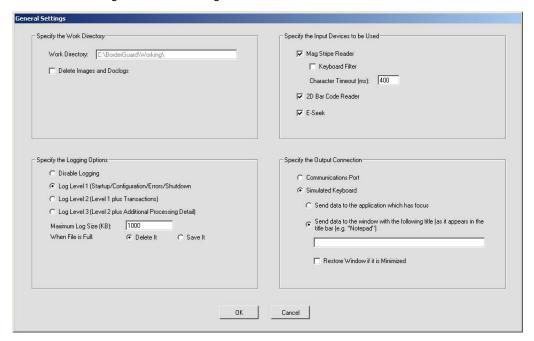
General settings
Communication port settings
Data transmit settings
Display settings
Data format settings
MRZ data format settings
Startup settings

Configuring General Settings

General settings let you configure your input devices, specify how you want iA-DataPort to handle the data they capture, and set up logging.

To configure general settings:

1. Select Settings—General Settings.



- 2. If you want iA-DataPort to delete images and document logs from the work directory after processing each document, select Delete Images and Doclogs. (You set the location of the work directory using Administrator, as explained on page 7-7.)
- 3. Specify the logging options you want to use:
 - Select one of the options for logging iA-DataPort activity: Disable Logging or Logging Level 1, 2, or 3, as described on the screen.
 - If you enable logging, specify the maximum size for the log file and what you want done with the file when it reaches that size:
 - To discard the existing file and start a new one, select Delete It.
 - To retain the existing file and start a new one, select Save It.

Note

iA-DataPort and Examiner cannot both use the same reader at the same time. If you select the magstripe reader or the bar code reader here, you must deselect that reader in Examiner (page 8-2).

Do not select a reader if you don't have the device attached.

- 4. Select each input device you are using:
 - If you are using a magstripe reader (see note at left):
 - Select Mag Stripe Reader.
 - To use the optional keyboard filter to route magstripe data to iA-DataPort, select Keyboard Filter. See page 10-3 for installation instructions and more information about the filter.

Important: If you want magstripe data routed to a different program, such as iA-Examiner, be sure to *deselect* both Keyboard Filter and Mag Stripe Reader.

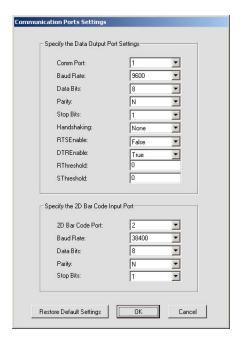
- For Character Timeout, use the default value of 400 ms.
- If you are using a 2D bar code reader, select 2D Bar Code Reader. (See note at left.)
- If you are using the E-Seek Intelli-Check combined magstripe and bar code reader, select E-Seek.
- 5. Select one of the output connections:
 - To send output to a serial communications port, select Communications Port.
 - To send output to an application, as if the data were being typed using an ordinary keyboard, select Simulated Keyboard and choose the options you want to use:
 - To send the output to the front program window, select Send data to the application which has focus.
 - To send the output to a specific program window, select Send data to the window with the following title. Enter the window's full title (exactly as it appears in the title bar), or enter enough characters from the *beginning or end* of the window's title to identify it uniquely. For example, if the window's title is Log0001.txt Notepad, you might enter either Log or Notepad.
 - To restore the specified program window after each read (if it's minimized), select Restore Window if it is Minimized.

Configuring Communication Port Settings

You must configure iA-thenticate's port settings so that they match those of your iA-thenticate unit and your bar code reader.

To configure communication port settings:

1. Select Settings—Comm Ports Settings.



Note

To restore the factory-set values, click Restore Default Settings.

- 2. If you want to send data to another PC through the iA-thenticate unit's serial port as described on page 10-2, select the appropriate values under Data Output Port Settings. The Comm Port number must match the port to which the null modem cable is attached.
- 3. For the 2D Bar Code Input Port settings, select values that match those set for your bar code reader. The default values for the E-Seek Intelli-Check reader are 2, 38400, 8, N, 1.
- 4. Click OK.

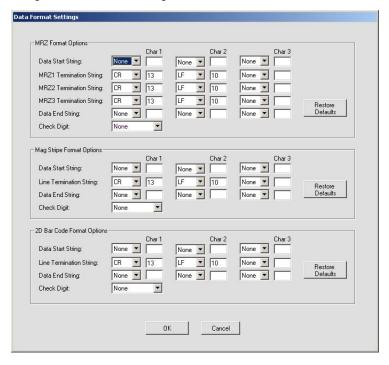
Configuring Data Format Settings

You can format the data that iA-thenticate sends to your application by specifying the characters used for starting, ending, and delineating each group of data.

For MRZ data, you can specify as many as three characters to start the block of data, three characters to end the block of data, and three characters to insert after each line of the MRZ within the block of data, as well as a calculated check digit. Similarly, you can specify starting, ending, delineating, and check digit characters separately for magstripe data and 2D bar code data.

To configure data format settings:

1. Select Settings—Data Format Settings.



2. Under MRZ Format Options:

- a. Specify as many as three characters to send at the start of the MRZ data. To specify a character, you can:
 - Select it from the drop-down list of special characters, including NUL, STX, ETX, EOT, ENQ, ACK, HT, LF, VT, FF, CR, and ESC.
 - Or, select Other from the drop-down list and type the character's decimal ASCII value in the box to the right of the list
- b. Specify as many as three characters to insert at the end of the first line of MRZ data. Do the same for the second line and third line of MRZ data.
- Specify as many as three characters to send at the end of the entire block of MRZ data.
- d. Specify that a check digit be sent at the end of the data, calculated using the CRC16-ARINC algorithm.
- 3. Similarly, specify starting, delineating, and ending characters under Mag Stripe Format Options and 2D Bar Code Format Options. You can also select the check digit option for each.
- 4. Click OK.

Note

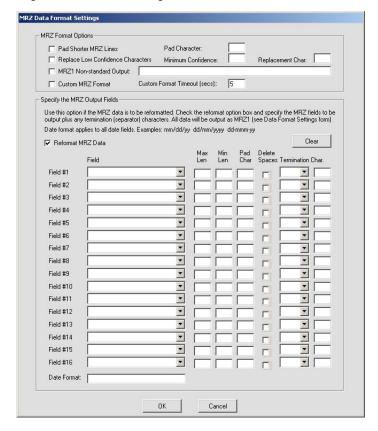
To restore the default settings for one of the kinds of data, click the matching Restore Defaults button.

Configuring MRZ Data Format Settings

In addition to the MRZ formatting options you set on the Data Format Settings screen, you can also format the MRZ data in other ways.

To configure MRZ data format settings:

1. Select Settings—MRZ Format Settings.



- 2. To make the data length the same for each MRZ line in a document, filling out shorter lines with extra characters to be the same length as the longest line, select Pad Shorter MRZ Lines. Specify the pad character you want to use.
- 3. To replace any character that iA-thenticate has trouble reading with a different character:
 - a. Select Replace Low Confidence Characters.
 - b. For Minimum Confidence, specify how low the system's confidence must be before it replaces a character. The range is 0.0 to 1.0, and the default is 0.8.
 - Lowering the value tells the system to allow lower confidence in its readings, so it replaces fewer characters.
 - Raising the value tells the system to require higher confidence in its readings, so it replaces more characters.

- c. For Replacement Character, specify which character you want substituted for each doubtful character. For example, you might want to use a question mark (?) or underscore (_).
- 4. To send a notation or other text when iA-thenticate is unable to automatically identify the document as a specific type (whether ICAO or non-ICAO), select MRZ1 Non-standard Output and enter the text you want to send. For example, you might want to send a notation such as [Unknown document].
- 5. Leave Custom MRZ Format *deselected* unless you have created a custom MRZ-processing application in consultation with Viisage Customer Support.
- 6. To process the captured MRZ data and send it in a different format, select Reformat MRZ Data and then choose how you want to format each field, in order. For each field:
 - a. Under Field, select the name of the field—for example, Surname.
 - b. If you want the field to be no longer than a certain length when DataPort sends it, specify that length under Max Len. DataPort then truncates longer fields to this length. If you don't want a long field truncated, leave Max Len blank.
 - c. If you want the field to be at least a certain length when DataPort sends it:
 - Under Min Len, specify the minimum number of characters the field should contain.
 - Under Pad Character, type the character you want to use to fill out a short field to the minimum length. The default is a space.

If you don't want the field padded to any minimum length, leave Min Len blank or enter 0 (zero).

- d. If you want all spaces in the field removed, select Delete Spaces. For example, VAN LIND would become VANLIND.
- e. Under Termination Char, specify the character to insert immediately after a variable-length field to mark its end. You can select various untypeable characters (such as NUL) from the drop-down list, or you can enter any typeable character (such as >) in the second box.

Finally, specify the Date Format you want to use for sending dates. This determines the day-month-year order, the punctuation used between elements, the month format (number or abbreviation), and the year format (2 or 4 digits). For example, for August 14, 2003:

| This date format | Sends this data | | |
|------------------|-----------------|--|--|
| mm/dd/yy | 08/14/03 | | |
| yyyy-mm-dd | 2003-08-14 | | |
| dd mmm yyyy | 14 Aug 2003 | | |

7. Click OK.

Notes

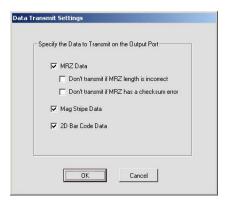
- One field you can select is Pass/Fail. This is not MRZ data but an extra field for sending overall test results. Select Pass/Fail if you want to send **P** when a document passes all tests, or **F** when a document fails any test.
- Setting Max Len and Min Len to the same number results in a fixed-length field.
- If you select Delete Spaces, DataPort removes the embedded spaces before adjusting the field's length using the Max Len and Min Len settings.

Configuring Data Transmit Settings

You can select which kinds of data you want iA-thenticate to transmit—any combination of MRZ data, magstripe data, and 2D bar code data.

To configure data transmit settings:

1. Select Settings—Data Transmit Settings.



- 2. Select all the kinds of data you want iA-thenticate to transmit to your application.
- 3. If you select MRZ Data, you can also select either or both of these options, to prevent transmission of faulty or questionable data:
 - · Don't transmit if MRZ length is incorrect
 - Don't transmit if MRZ has a checksum error

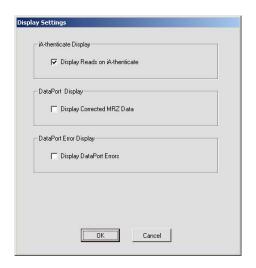
Configuring Display Settings

You can make several choices about:

- ☐ What kinds of information the iA-DataPort Utility displays on its main screen
- ☐ What kinds of information the iA-thenticate unit itself displays during operation (apart from the iA-DataPort Utility)

To configure display settings:

1. Select Settings→Display Settings.



2. Under iA-thenticate Display:

- If you want the iA-thenticate unit to show the captured information to the operator, select Display Reads on iA-thenticate. This causes iA-thenticate to display the results in a message box for the operator each time the unit reads an MRZ, magstripe, or bar code.
- If you want the iA-thenticate unit to read information without displaying the results for the operator, deselect this option.

3. Under DataPort Display:

• If you select Replace Low Confidence Characters (page 10-10) and you want the displayed MRZ to show the replacement characters (rather than the original, doubtful ones), select Display Corrected MRZ Data.

4. Under DataPort Error Display:

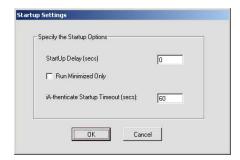
- If you want data port error messages to appear onscreen and on the built-in text panel whenever they occur, select Display DataPort Errors. You may want to do this when you first set up DataPort and to troubleshoot any problems.
- To suppress such error messages so that the operator does not see them, deselect this option.

Configuring Startup Settings

iA-DataPort includes settings to set startup delays and to run the utility minimized so the operator doesn't see its screen.

To configure startup settings:

1. Select Settings—Startup Settings.



- 2. For Startup Delay, use the default value of 0 seconds. But if your unit is set up to run iA-DataPort automatically at startup, and you see error messages during startup, try increasing this value.
- 3. If you want the iA-DataPort utility to run minimized each time you start it, select Run Minimized Only. Do *not* select this option unless you have determined that you *can* run the utility minimized, as explained under "Running the Utility Minimized" on page 10-4.
- 4. For iA-thenticate Startup Timeout, use the default value of 60 seconds.
- 5. Click OK.

Checking the Capture Devices

You can use the iA-DataPort Utility to confirm that each of your iA-thenticate capture devices is working properly. With the Utility running, try capturing each kind of data and check to make sure it appears on the screen.

To check MRZ capture:

- 1. On the iA-thenticate unit, lower the hinged light shield over the glass platform.
- Place an ICAO document (with a standard MRZ) facedown on the platform, holding it flat against the glass, and slide it back and to the left until it stops against the edges of the platform.
- 3. Hold the document still for a few seconds, until the text panel displays Remove Document or the iA-DataPort Utility displays the resulting data on the screen. Then remove the document.
- 4. Confirm that the correct MRZ data appears on the screen.

To check the magstripe reader:

- 1. Briskly swipe a magstripe card through the reader's slot in either direction, following the orientation diagram on the reader.
- 2. Confirm that the correct data appears on the screen in the Mag Stripe Reader field.

To check the bar code reader:

- 1. Insert a document with a 2D bar code into the slot in the reader, following the orientation diagram on the reader, and then remove it.
- 2. Confirm that the correct data appears on the screen in the 2D Bar Code field.

Appendixes

A Resetting the E-Seek Reader

Note

iA-DataPort displays errors only if *Display DataPort Errors* is selected as described on page 10-13). If you have the E-Seek Intelli-Check magstripe and bar code reader, and iA-Examiner or iA-DataPort keeps displaying an error message when you scan a magstripe or bar code, the reader may have lost its correct settings. Typical error messages:

- ☐ iA-Examiner: E-Seek identifier code not found
- ☐ iA-DataPort: E-Seek header is not enabled or an extra beep after reading a document

To reset the E-Seek Intelli-Check reader to its correct settings:

- ☐ Find the iA-thenticate Setup card supplied with the reader.
 - If you can't find the supplied card, make a clean photocopy of this page on heavy, stiff paper, and cut out the card. (Or use ordinary paper and tape the photocopied bar code onto a blank ID card.)
- □ With the E-Seek Intelli-Check reader powered on, scan the bar code by briskly inserting and removing the card. The reader should respond with a warbling beep indicating that the settings have been accepted.



Resetting the E-Seek Reader

B

Periodic Maintenance

Follow these procedures to keep your iA-thenticate unit working accurately and efficiently.

Cleaning the Glass Platform

During normal use, the glass document platform becomes dusty and smudged with fingerprints. It can also become sticky with adhesives from the documents you process.

To keep the unit working properly, you must keep the glass clean. You should clean the glass routinely at least once a week, and immediately if it becomes sticky.

We strongly recommend using pre-moistened optical wipes to clean the glass. They are effective, safe, convenient, and inexpensive.

Warnings:

- □ *Never spray liquid* onto the glass or any other part of the unit.
- □ Never use an abrasive cleaner or pad of any kind.
- ☐ Use only wipes that are specifically for cleaning optical surfaces.

To clean the glass platform:

♦ Gently wipe the glass with a pre-moistened optical wipe.

As an alternative, you can use a clean, soft, lint-free cloth slightly moistened with denatured alcohol or a nonabrasive glass cleaner.

Cleaning the Sensor Switch

Sometimes dirt and bits of paper can slip underneath the document sensor switch. If these build up, they can interfere with the switch, so that the unit doesn't always respond when you place a document on the platform.

About once a month, or whenever a unit has problems responding to a document, you should check and clean the sensor switch.

To clean the sensor switch:

- 1. Raise the light shield and locate the sensor switch lever, at the back left corner of the platform.
- 2. Gently vacuum the switch area, being careful not to mar the glass.
- 3. Carefully remove any bits of paper stuck under the lever.

Defragmenting the Hard Drive

During normal use, the files and free space on your unit's hard drive become fragmented. As fragmentation becomes worse, your system runs less efficiently.

About once a month, you should use Disk Defragmenter to check your hard drive for fragmentation and to defragment it as necessary. The check takes just a few moments; defragmentation can take 15 minutes or more.

To check and defragment the hard drive:

- 1. Log on as an administrator.
- 2. Run Disk Defragmenter (Start→Programs→Accessories→System Tools→Disk Defragmenter).
- 3. Select the C drive and click Analyze.
- 4. If Disk Analyzer reports that the volume needs defragmenting, click Defragment to proceed.

Note: Even if Disk Analyzer reports that the volume does not need defragmenting, you can defragment it as a preventive measure.

5. If your system has additional drives, check and defragment them in the same way.



Viisage Technology, Inc. 296 Concord Road, Billerica, MA 01821 USA T 978.932.2200 F 978.932.2225 www.viisage.com