

Windows Installation Guide Revision 4 EDM04-02

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Published by:

Endace Measurement Systems[®] Ltd Building 7, 17 Lambie Drive PO Box 76802 Manukau City 1702 New Zealand Phone: ++64 9 262 7260 Fax: ++64 9 262 7261

support@endace.com
www.endace.com

International Locations

New Zealand

Endace Technology[®] Ltd 12 Knox Street PO Box 19246 Hamilton New Zealand 2001 ++64 7 839-0540 <u>support @ endace.com</u> Www.endace.com

Suite 220

Americas

Endace USA[®] Ltd

11495 Sunset Hill Road Reston Virginia 20190 United States of America Phone: ++1 703 382 0155 Fax: ++1 703 382 0155 <u>support@endace.com</u> www.endace.com

Europe, Middle East & Africa Endace Europe[®] Ltd

Endace Europe[®] Ltd Sheraton House Castle Park Cambridge CB3 OAX United Kingdom Phone: ++44 1223 370 176 Fax: ++44 1223 370 040

support@endace.com www.endace.com

Typographical Conventions Used in this Document

• Command-line examples suitable for entering at command prompts are displayed in mono-space courier font.

Results generated by example command-lines are also displayed in mono-space courier font.

• Information relating to functions not implemented in this beta version of this product are underlined

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1.0 PREFACE

Viewing this
documentThis document is available when the installation CD is placed in a running
Windows PC.

1.1 User Manual Purpose

Description The purpose of the User Manual is to identify and explain:

•

1.2 Operating System Requirements

Description The Endace Windows Software is designed to run in the Microsoft Windows[®] XP-Professional[®], Windows 2000 Server and Windows Server 2003.

1.3 Print Document

Description It is recommended that this document be printed and bound or stapled for self-study and reference purposes during the installation process.

2.0 ENDACE DAG SOFTWARE INSTALLATION

Introduction The DAG software 2.5.6.1 release is a Microsoft Installer Package (.msi). It is used to install the DAG software tools, drivers and documents. The Endace 2.5.6.1 .msi package is available from the Endace Secure Support website <u>http://endace.com/secureLogin.htm</u>. It is also available on the CD shipped with DAG cards.

The CD auto-runs when placed in a running Windows PC and displays the DAG card user manuals and the software installation manuals. Physically browsing the CD will display four folders consisting of:

- 1. contrib
- 2. docs
- 3. Linux-FreeBSD
- 4. Windows

The contrib folder holds all applications. The docs folder contains the latest documentation. The Linux-FreeBSD folder contains the 2.5.5 tarball which is only required if the Linux operating system is running.

The Windows folder contains the 2.5.6.1.msi.

In this chapter This chapter covers the following sections of information.

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2.1 Software Package Installation

Description	To install the software package after the CD is inserted in a CD drive, double click on the .msi file screen display and follow the on-screen instructions. The installation proceeds in the same manner as other Windows file downloads by following the on-screen prompts after clicking the icon.
	The software and driver have been tested using Windows XP Professional distribution.
Evaluating disk space	Before installing the DAG software 2.5.5, the disk space requirement can be verified by clicking "Disk Cost".
Selection of destination folder	The DAG tools and drivers are created in Endace/dag-2.5.6.1 subfolder within the Program Files folder by default. To install them to a different folder, the user can either specify the path of the destination folder or click "Browse".
	A shortcut to the document folder is created on the user's desktop.

2.2 Software Removal

Description The installer package can be re-used to uninstall the DAG software. The user is prompted with the "Repair" and "Remove" option.

The "Remove" option can be selected for uninstalling/removing the DAG software and the "Repair" option for repairing any corrupted files.

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3.0 SOFTWARE SUPPORT

- **Introduction** The support provided by Endace Technology includes software upgrades, programming with DAG, and actions to take when there is trouble with the software.
- In this chapter This chapter covers the following sections of information.
 - •
 - •
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3.1 Software Upgrade

Description Software updates are available periodically from Endace that may add features or fix problems.

For those with a support contract, the software updates can be accessed using support login at the Endace website, <u>http://www.endace.com/support.htm</u>.

To subscribe to mailing list for automatic notification of software updates and documentation, contact support@endace.com

The following installation procedure for new software releases ensures upgrading is easy and consistent.

Procedure Follow these steps to upgrade software.

Step 1. Locate the Device Manager

Device Manager can be located either through Control Panel-> System->Hardware or by right clicking on "My Computer"->Properties->Hardware.

(continued)

Step 2. Load driver for the Network Controller

Right click on the "Network Controller" under "Other devices" and select the "Update driver".

NOTE: For Windows 2000 Server, click on "Properties" and then click on the "Driver" tab to proceed with 'Update Driver' option.

Figure 3-1 shows the 'Update Driver' menu within the 'Other devices' node located in the Device Manager.

File Action View Help Image: Charcol Image: Charcol Image: Charcol Image: Charcol Image: Charcol Image: Charcol Image: Charcol Image: Charcol Image: Charcol Image: Charcol Image: Charcol Image: Charcol Image: Charcol Ima			Manager	🔒 Device
Image: Charcon Image: Charon Image:			n View Help	File Acti
CHARON Computer Compute		N 🕿 🗶 😹	3 6 6	← →
Retwork Contro Update Driver JP Ports (COM & LPT) Disable		rs levices	ON omputer isk drives isplay adapters loppy disk controllers loppy disk drives DE ATA/ATAPI contro eyboards lice and other pointin lonitors letwork adapters ther devices	
Processors Uninstall Sound, video and g System devices System devices		pdate Driver isable ninstall can for hardware changes	Network Contro orts (COM & LPT) rocessors ound, video and g ystem devices	
The Universal Serial Bus Properties		roperties	niversal Serial Bus	₽€

Figure 3-1. Update Driver Menu.

(continued)

Step 3. Hardware Update Wizard

The following dialog may appear. Choose "No, not this time" and click "Next".

NOTE: For Windows 2000 Server, an "Upgrade Device Driver Wizard" appears instead of "Hardware Update Wizard". Click 'Next' to continue.

Figure 3-2 shows the Hardware Update Wizard dialog screen display.



Figure 3-2. Hardware Update Wizard Dialog Screen Display.

(continued)

Step 4. Options of Hardware Update Wizard

Choose the option "Install from a list or specific location" in the "Hardware Update Wizard" and click "Next".

NOTE: For Windows 2000 Server, choose "Display a list of the known drivers for the device so that I can choose a specific driver" option.

Figure 3-3 shows the Install from a list or specific location option screen view.

Hardware Update Wizard	
	Welcome to the Hardware Update Wizard
	This wizard helps you install software for:
	Endace DAG 3.7T network measurement card
	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do?
	O Install the software automatically (Recommended)
Street Street Street	Install from a list or specific location [Advanced]
	Click Next to continue.
	< <u>Back</u> <u>N</u> ext > Cancel

Figure 3-3. Install from a List or Specified Location Option Screen View.

(continued)

Step 5. Options of Hardware Update Wizard

Choose the option "Don't search. I will choose the driver to install." in the "Hardware Update Wizard" and click "Next".

NOTE: This screen view does not appear for Windows 2000 Server.

Figure 3-4 shows the driver to install option screen view.

dware Up Please ch	oose your search and installation options.
C Sec	arch for the best driver in these locations.
Use patł	the check boxes below to limit or expand the default search, which includes local is and removable media. The best driver found will be installed.
ſ	Z Search removable media (floppy, CD-ROM)
ſ	Include this location in the search:
	E:\Program Files\Endace\dag-2.5.4\driver PIowse
• Do	n't search. I will choose the driver to install
Cho the	ose this option to select the device driver from a list. Windows does not guarantee t driver you choose will be the best match for your hardware.
	< Back Next > Cancel
	< <u>₿</u> ack <u>N</u> ext> Cancel

Figure 3-4. Driver to Install Option Screen View.

(continued)

Step 6. Options of Hardware Update Wizard

Click "Have Disk" and locate the installation file DAG.inf using "Browse".

NOTE: For Windows 2000 Server, extra options appear at the bottom left corner of the dialog box. Choose "Show compatible hardware" option and follow this Step 6.

Figure 3-5 shows the Have Disk option screen view.

Hardware Update Wizard	
Select the device driver you want to i	nstall for this hardware.
Select the manufacturer and model of have a disk that contains the driver yo	your hardware device and then click Next. If you u want to install, click Have Disk.
Model	
Endace DAG 3.7T network measurement of	card
This driver is not digitally signed! <u>Tell me why driver signing is important</u>	Have Disk
	< <u>Back</u> Next> Cancel

Figure 3-5. Have Disk Option Screen View.

Step 7. Locate installation files

Locate the installation file either from "[Windows folder]/inf" or from the path mentioned during DAG Software installation and click "OK".

Click "Next" and choose "Continue Anyway", followed by clicking "Next" and then click "Finish"

NOTE: For Windows 2000 Server, "Continue Anyway" may not appear. Click "Next" and then "Finish" to complete the installation.

(continued)

Figure 3-6 shows the Locate Installation Files screen view.

H	Insert the manufacturer's installation disk, and then	ПК
0	make sure that the correct drive is selected below.	Cancel
	Carry many facts and films from:	

Figure 3-6. Locate Installation Files Screen View.

NOTE: If the driver and the dlls are being installed as an update to the beta release, the older versions of the DAG64.sys, dagapi.dll and dagapi37t.dll may need to be manually removed. These files can usually be found at %WINDOWS%\System32\drivers.

If those files are not deleted, a message may appear asking to overwrite the older versions with the newer ones. The overwrite option should be chosen.

Step 8. Set the environment variable

Edit the "PATH" variable (one of the system variables) by adding the string ";%DAGPath %" to it.

The "PATH" variable can be located either through Control Panel->System->Advanced->Environment Variables or by right clicking on "My Computer"->Properties->Advanced->Environment Variables.

(continued)

Variable	Value
TEMP	C:\Documents and Settings\Stephen\Lo
IMP	C:\Documents and Settings\Stephen\Lo
	New Edit Delete
stem variables	
vstem variables Variable	Value
vstem variables Variable NUMBER_OF_P OS	Value
variable Variable NUMBER_OF_P OS Path	Value 1 Windows_NT C:\WINDOWS\system32;C:\WINDOWS;
stem variables Variable VUMBER_OF_P DS Path PATHEXT	Value Value Value C:\WINDOWS\system32;C:\WINDOWS; COM;.EXE;.BAT;.CMD;.VBS;.VBE;.J5;

Figure 3.7 shows the Environment Variable screen display.

Figure 3-7. Environment Variable Screen Display.

Choose "Path" and click "Edit" on the screen above.

Figure 3-8 shows the Edit System Variable screen display.

Edit System Varia	ble	<u>? ×</u>
Variable <u>n</u> ame:	Path	
Variable <u>v</u> alue:	emRoot%\System32\Wbem;	%DAGPath%;
	ОК	Cancel

Figure 3-8. Edit System Variable Screen Display.

Step 9. Reboot the System

3.2 Programming with DAG

Description All DAG cards present a common C language API for user programs.

Further details about the API can be requested by emailing support@endace.com for a copy of the DAG Programming Guide.

3.3 Reporting Problems

Description Support is provided with a service contract. If problems with a DAG card or supplied software, contact Endace Technical Support via the email address <u>support@endace.com</u>. Supplying sufficient information about trouble enables causation to be quickly identified and corrective actions advised.

Problem
checklistThe exact information available to users for trouble, cause and correction
analysis may be limited by nature of the problem. The following items
assist a quick problem resolution:

Ref	Item
1.	DAG card[s] model and serial number.
2.	Host PC type and configuration.
3.	Host PC operating system version.
4.	DAG software version package in use.
5.	Any errors or warnings when installing DAG driver or tools.
6.	Output of daginf.
7.	Firmware versions from dagrom -x.
8.	Physical layer status reported by:
9.	 dagthree for DAG 3 series cards dagfour for DAG 4 series cards Network link statistics reported by: dagthree -si for DAG 3 series cards
	• dagfour -si for DAG 4 series cards
10.	Network link configuration from the router where available.
11.	Contents of any scripts in use.
12.	Complete output of session where error occurred including any error messages from DAG tools.
13.	A small section of a captured packet traces illustrating the problem.
14.	Any error or warning messages logged in event viewer.