DXA410
DAQOPC for DX/MV Series
Install Manual

IM 04L01B03-62E

Foreword

This manual explains the installation procedure of the DAQOPC and the setup parameters. To ensure correct use, please read this manual thoroughly before beginning operation. After reading the manual, keep it in a convenient location for quick reference whenever a question arises during operation.

Notes

- The contents of this manual are subject to change without prior notice as a result of continuing improvements to the instrument's performance and functions. The figures given in this manual may differ from the actual screen.
- Every effort has been made in the preparation of this manual to ensure the accuracy of its contents. However, should you have any questions or find any errors, please contact your nearest YOKOGAWA dealer as listed on the back cover of this manual.
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Notes on Using This Product

Storing the CD-ROM

Please store the original CD-ROM in a safe place. During the actual operation, use the software that is installed on the hard disk.

Note

There is no printed user's manual that explains the operations of this product. Please use the electronic data that is on the CD-ROM.

Agreement

Restriction on Use

Use of this product (this utility software and manual) by more than one computer at the same time is prohibited. Use by more than one user is also prohibited.

Transfer and Lending

Transfer or lending of this product to any third party is prohibited.

Guarantee

Should a physical deficiency be found on the original CD-ROM or this manual upon opening the product package, please promptly inform Yokogawa. The claim must be made within seven days from the date you received the product in order to receive a replacement free of charge.

Exemption from Responsibility

Yokogawa Electric Corporation provides no guarantees other than for physical deficiencies found on the original CD-ROM or this manual upon opening the product package. Yokogawa Electric Corporation shall not be held responsible by any party for any losses or damage, direct or indirect, caused by the use or any unpredictable defect of the product.

Copyright

YOKOGAWA holds the copyright to the software that is on the CD-ROM.

Contents

1 Before Installation

Things to Prepare

Have the DAQOPC CD-ROM ready.

Hardware Preparation

The memory and hard disk space that are required for the installation of the DAQOPC are as follows:

Paging file size of the virtual memory

Set the size of the virtual memory so that the sum of the main memory and the virtual memory is at least 300 MB. (Select **Control Panel** > **System** > **Performance** on Windows NT to set the virtual memory.)
The initial paging file size on the boot drive is the size obtained by subtracting the RAM size from the virtual memory size.

Free Disk Space

A free disk space of at least 130 MB must be available in the destination drive to install the DAQOPC.

Precautions to Be Taken before Installation

When installing DAQOPC to a PC that has YOKOGAWA's Exaopc installed, make sure to follow the points below. Otherwise, the operation of Exaopc and DAQOPC is not guaranteed.
• Install Exaopc and DAQOPC to the same folder.
• Use Exaopc R1.20.
When setting up the DAQOPC client in a PC that has Exaopc or Exaopc client installed, check that Exaopc is R1.20. Operation is only guaranteed for R1.20.

2　Flow of Installation Procedure

Install the DAQOPC in the following fashion.

Operation Requirement
- Make sure to install an Ethernet adapter and TCP/IP when installing Windows NT.
- One of the following service packs must be installed: SP4, SP5, or SP6a.

Installing the DAQOPC
- Install the DAQOPC. See section 4, "Installing the DAQOPC."
- This operation creates a user name "EXA" on Windows NT. The initial password is "EXA." Password expiration is set to Password Never Expires.

Configuration When Using the DAQOPC via the Network
- This procedure is required when using the OPC function via the network on a PC that does not have the DAQOPC installed.
- To use the OPC function on a client machine, carry out the following procedure on the machine that has OPC server installed (server machine) and the client machine.
  1. Insert a formatted floppy disk into the floppy drive of the server machine.
  2. From a file management program such as Explorer, execute *installed folder*\Program\ZOPMKEXAFDC.exe.
  3. Click **OK**. A client setup disk is created.
  4. Log on to the client machine using a user name belonging to the Administrator group and insert the client setup disk into the floppy drive.
  5. Execute setup.exe in the client setup disk. A user account is created.

If you reboot Windows NT, the DAQOPC functions become available.

3 Precautions to Be Taken When Installing Windows NT Server

The recommended configuration of the items required on the Windows NT 4.0 Server during installation is indicated below (This procedure is not required on the Windows NT Workstation.).
For details, see the "First Step Guide" that is included with the Windows NT Server. All other configuration is basically the same as the Windows NT Workstation.

After installing the Windows NT Server, you will need to install a service pack (common to Workstation and Server). Install the service pack after configuring the Windows NT network.

Selecting the License Mode
Select **Per Seat**.

Selecting the Server Type
Select **Standalone Server**.

Initial Installation of Network
Do not install Microsoft Internet Information Server.

4 Installing the DAQOPC

Before Installing the DAQOPC

Check the following points before starting the installation of the DAQOPC.

1. Reboot the PC. If memory-resident programs such as virus checkers are running, disable them from running and reboot the PC.
2. Install the Microsoft's redistribution module according to the following procedure.
   • Insert the DAQOPC CD-ROM in the CD-ROM drive.
   • Double-click the following file in the CD-ROM drive.
     DXMV\COMMON_MS\ENGLISH\MDAC_typ.exe

These procedures will install Microsoft's redistribution library. If a dialog that prompts you to reboot the PC after installation, reboot the PC.

Installation Procedures of the DAQOPC

1. Lolg on using a user name belonging to the Administrator group.
2. Exit all application programs.
3. Insert the DAQOPC CD-ROM in the CD-ROM drive.
4. Start Windows NT Explorer.
5. Start DXMV\English\setup.exe in the CD-ROM drive to start the installation.
6. **Enter Serial Number** dialog box opens. Enter the serial number of the product to be installed.

Note
   The serial number is written on the front cover of the CD-ROM case.

7. The **Welcome** dialog box opens. Click **Next** or press **Enter**. A software license agreement screen appears.
8. The **Select Copy Destination** dialog box opens. Select the directory to install the DAQOPC. If it is a new installation, the default directory is C:\DAQOPC. To change it, click **Browse** and specify another destination directory.
9. Click **Next** or press **Enter**.
10. Files start to be copied. It takes several minutes to copy the files. While copying files, a dialog box may appear for you to confirm whether or not to overwrite files. In such case, select **Yes**.
11. A dialog box indicating that the installation has finished appears.
12. If rebooting is required, a dialog box will appear. Remove the DAQOPC CD-ROM from the drive and click **Finish** or press **Enter**. The PC will reboot automatically. If rebooting is not required, a dialog box indicating that the installation has finished appears. Remove the DAQOPC CD-ROM from the drive and click **Finish** or press **Enter**.

This completes the DAQOPC installation.

5   Upgrading the DAQOPC

Before Upgrading the DAQOPC
Check the following points before starting the upgrade of the DAQOPC.

1.   Stop the OPC client that is connected to the DAQOPC.
2.   If memory-resident programs such as virus checkers are running, disable them from running and reboot the PC.
3.   Install the Microsoft's redistribution module according to the following procedure.
   •   Insert the DAQOPC CD-ROM in the CD-ROM drive.
   •   Double-click the following file in the CD-ROM drive.
       DXMV\COMMON_MS\ENGLISH\MDAC_typ.exe

These procedures will install Microsoft's redistribution library. If a dialog that prompts you to reboot the PC after installation, reboot the PC.

Procedures for Upgrading the DAQOPC

1.   Log on using a user name belonging to the Administrator group.
2.   Exit all application programs.
3.   Insert the DAQOPC CD-ROM in the CD-ROM drive.
4.   Start Windows NT Explorer.
5.   Start DXMV\English\setup.exe in the CD-ROM drive to start the installation.
6.   **Enter Serial Number** dialog box opens. Enter the serial number of the product to be installed.

Note
   The serial number is written on the front cover of the CD-ROM case.

7.   The **Welcome** dialog box opens. Click **Next** or press **Enter**. A software license agreement screen appears.
8.   The **Select Copy Destination** dialog box opens. Select the directory to install DAQOPC. When upgrading: Specify the directory in which the old version is installed.
9.   Click **Next** or press **Enter**.
10.   Files start to be copied. It takes several minutes to copy the files. While copying files, a dialog box may appear for you to confirm whether or not to overwrite files. In such case, select **Yes**.
11.   A dialog box indicating that the installation has finished appears.
12.   If rebooting is required, a dialog box will appear. Remove the DAQOPC CD-ROM from the drive and click **Finish** or press **Enter**. The PC will reboot automatically. If rebooting is not required, a dialog box indicating that the installation has finished appears. Remove the DAQOPC CD-ROM from the CD-ROM drive. Click **Finish** or press **Enter**.

This completes the DAQOPC upgrade.

6 Precautions to Be Taken When Reinstalling or Installing Additional Software

When reinstalling the DAQOPC or installing additional software, note the following points.

If you delete the TCP/IP protocol after installing the DAQOPC, reinstall the TCP/IP protocol (includes reinstalling the Windows NT 4.0 Service Pack) and reinstall the DAQOPC also.

7 Precautions to Be Taken When Using UPS

If you are using the uninterruptible power supply (UPS), which is provided in the Windows NT Control Panel, to shut down Windows NT in an event of a power failure on the PC that is to run DAQOPC, configure the UPS so that the following command is executed before the shutdown operation.

Installed Folder\exaopc\Tool\ZOCEXASTOP.EXE

Otherwise, the program may terminate abnormally.

8 Configuring the Windows NT Display Properties

For stable operation of the DAQOPC, carry out the following environment settings.

Wallpaper

Do not use wallpaper as this may disturb the colors of the screen.

Carry out the following steps to set the wallpaper to **None**.

1. Log on as EXA.
2. Select **Start** > **Settings** > **Control Panel**.
3. Select **Display** and open **Display Properties**.
4. Under **Wallpaper** in the **Background** tab, select **(None)** and click **OK**.

Screen Saver

Do not use screen savers, because the operation may become unstable when the screen saver starts causing a temporary increase in the CPU load.

Carry out the following steps to set the Screen Saver to **None**.

1. Log on as EXA.
2. Select **Start** > **Settings** > **Control Panel**.
3. Select **Display** and open **Display Properties**.
4. Under **Screen Saver** in the **Screen Saver** tab, select **(None)** and click **OK**.

9   Troubleshooting

This section will describe the possible causes of problems and their corrective actions.

Ethernet communications stopped working.
  [Probable Cause]
  • Configuration error in the network binding.
  • Configuration error of TCP/IP (TCP/IP address, subnet mask, etc.)
  [Corrective Action]
  • Check hardware, Ethernet adapter card, and Ethernet cable.

  • Check the configuration in the Network dialog box of the Control Panel.

Network connection via the Ethernet network takes a long time.
  [Probable Cause]
  • When multiple network adapter cards are installed, the initial connection to a PC located on the other side of a router (such as when selecting network computer on Windows NT Explorer) may take around three minutes. Once connected, connection to the same PC will not take long.
  • Microsoft Corporation is aware that a similar phenomenon occurs when two Ethernet adapter cards are installed. This is a problem on Windows NT 4.0.
  [Corrective Action]
  • No evasive action is known at the present time (publication of this manual).
  • The connection takes a long period of time, but there are no functional problems.