

SYSMAC
CXONE-AL□□C-V3/AL□□D-V3

CX-One

FA Integrated Tool Package

SETUP MANUAL

OMRON

CXONE-AL□□C-V3/AL□□D-V3

CX-One

FA Integrated Tool Package

Setup Manual

Revised February 2009

Notice:

OMRON products are manufactured for use according to proper procedures by a qualified operator and only for the purposes described in this manual.

The following conventions are used to indicate and classify precautions in this manual. Always heed the information provided with them. Failure to heed precautions can result in injury to people or damage to property.

 **DANGER** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Additionally, there may be severe property damage.

 **WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. Additionally, there may be severe property damage.

 **Caution** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or property damage.

OMRON Product References

All OMRON products are capitalized in this manual. The word “Unit” is also capitalized when it refers to an OMRON product, regardless of whether or not it appears in the proper name of the product.

The abbreviation “Ch,” which appears in some displays and on some OMRON products, often means “word” and is abbreviated “Wd” in documentation in this sense.

The abbreviation “PLC” means Programmable Controller. “PC” is used, however, in some Programming Device displays to mean Programmable Controller.

Visual Aids

The following headings appear in the left column of the manual to help you locate different types of information.

Note Indicates information of particular interest for efficient and convenient operation of the product.

1,2,3... 1. Indicates lists of one sort or another, such as procedures, checklists, etc.

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No patent liability is assumed with respect to the use of the information contained herein. Moreover, because OMRON is constantly striving to improve its high-quality products, the information contained in this manual is subject to change without notice. Every precaution has been taken in the preparation of this manual. Nevertheless, OMRON assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained in this publication.

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About this Manual:

This manual describes the installation and operation of the CX-One FA Integrated Tool Package and includes the sections described below.

Please read this manual carefully and be sure you understand the information provided before attempting to install or operate the CX-One. Be sure to read the precautions provided in the following section.

Precautions provides general precautions for using the CX-One.

Section 1 provides an overview of the CX-One FA Integrated Tool Package, its contents, and system requirements.

Section 2 describes how to install and uninstall the software provided in the CX-One.

Section 3 describes the CX-One Auto Update.



WARNING Failure to read and understand the information provided in this manual may result in personal injury or death, damage to the product, or product failure. Please read each section in its entirety and be sure you understand the information provided in the section and related sections before attempting any of the procedures or operations given.

Read and Understand this Manual

Please read and understand this manual before using the product. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

- (1) The warranty period for the Software is one year from either the date of purchase or the date on which the Software is delivered to the specified location.
- (2) If the User discovers a defect in the Software (i.e., substantial non-conformity with the manual), and returns it to OMRON within the above warranty period, OMRON will replace the Software without charge by offering media or downloading services from the Internet. And if the User discovers a defect in the media which is attributable to OMRON and returns the Software to OMRON within the above warranty period, OMRON will replace the defective media without charge. If OMRON is unable to replace the defective media or correct the Software, the liability of OMRON and the User's remedy shall be limited to a refund of the license fee paid to OMRON for the Software.

LIMITATIONS OF LIABILITY

- (1) THE ABOVE WARRANTY SHALL CONSTITUTE THE USER'S SOLE AND EXCLUSIVE REMEDIES AGAINST OMRON AND THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL OMRON BE LIABLE FOR ANY LOST PROFITS OR OTHER INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF USE OF THE SOFTWARE.
- (2) OMRON SHALL ASSUME NO LIABILITY FOR DEFECTS IN THE SOFTWARE BASED ON MODIFICATION OR ALTERATION OF THE SOFTWARE BY THE USER OR ANY THIRD PARTY.
- (3) OMRON SHALL ASSUME NO LIABILITY FOR SOFTWARE DEVELOPED BY THE USER OR ANY THIRD PARTY BASED ON THE SOFTWARE OR ANY CONSEQUENCE THEREOF.

Application Considerations

<i>SUITABILITY FOR USE</i>
THE USER SHALL NOT USE THE SOFTWARE FOR A PURPOSE THAT IS NOT DESCRIBED IN THE ATTACHED USER MANUAL.

Disclaimers

CHANGE IN SPECIFICATIONS

The software specifications and accessories may be changed at any time based on improvements or for other reasons.

EXTENT OF SERVICE

The license fee of the Software does not include service costs, such as dispatching technical staff.

ERRORS AND OMISSIONS

The information in this manual has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

PRECAUTIONS

This section provides general precautions for using the CX-One FA Integrated Tool Package.

The information contained in this section is important for the safe and reliable application of the CX-One FA Integrated Tool Package. You must read this section and understand the information contained before attempting to set up or operate the CX-One FA Integrated Tool Package.

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1 Intended Audience

This manual is intended for the following personnel, who must also have knowledge of electrical systems (an electrical engineer or the equivalent).

- Personnel in charge of installing FA systems.
- Personnel in charge of designing FA systems.
- Personnel in charge of managing FA systems and facilities.

2 Safety Precautions

 **Caution** When performing any of the following operations, always check the network address and node address of the other node (PLC) and the node address and unit number of the mounted Unit (PLC CPU Bus Unit or Special I/O Unit) or the node address of the Component (DeviceNet Master/Slave or CompoWay/F Slave), and be sure that these operations can be performed safely for the current status of the node (Unit or Component):

- Transferring parameter or program data to the other node
- Changing the operating mode of the other node

Unexpected operation may result if parameter or program data is transferred to the wrong node (DeviceNet Master/Slave or CompoWay/F Slave), the operating mode of the wrong node is changed, or the other node is not in a suitable status to receive the program or parameter data or the operating mode change.

 **Caution** Particularly when changing the target PLC to any PLC other than the relay PLC, check the node address and node number of the target PLC carefully before executing the change.) Unexpected operation and injury may result if the wrong PLC is set as the target PLC.

- Changing the operating mode
- Transferring or verifying user-set data link tables
- Transferring or verifying routing tables
- Performing I/O table operations (including transferring CPU Bus Unit or Special I/O Unit parameters)

Note Operations performed from the CX-Integrator are performed for the target PLC, which is not necessarily the same as the relay PLC.

 **Caution** When transferring parameters that have been created or edited on the computer to actual Units (PLC CPU Bus Units or PLC Special I/O Units) or to actual components (DeviceNet Masters/Slaves or CompoWay/F Slaves), or when resetting Units mounted on other PLC nodes or components (DeviceNet Masters/Slaves or CompoWay/F Slaves) connected via communications with other PLC nodes, always check the identifying numbers of the actual Units or Components (i.e., the unit numbers and unit addresses or node addresses) before executing the transfer or reset. Unexpected operation and injury may result if parameters are transferred to the wrong Unit or components, or the wrong Unit or component is reset.

Observe the following precautions when using the CX-One.

- When saving or opening a project file, always confirm the location of the folder and the file name before executing the save or open. The CX-One automatically switches the folder when saving and opening.
- Before changing the operating mode, always confirm that doing so will not adversely affect system operation.
- Always check the operation of programs and parameters sufficiently before using them for actual system operation.
- Confirm that resetting CPU Bus Units, Special I/O Units, and DeviceNet Master/Slave Units will not adversely affect system operation before resetting these Units.

SECTION 1

Overview

This section provides an overview of the CX-One FA Integrated Tool Package, its contents, and system requirements.

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1-1 Overview of CX-One

1-1-1 The CX-One FA Integrated Tool Package

The CX-One FA Integrated Tool Package integrates all of the Support Software for OMRON PLCs and Components. Although previously it was necessary to purchase, install, run, and connect online to the PLC separately for the Support Software for each Unit, the CX-One now provides an integrated development environment based on the CPS (Component and Network Profile Sheet) for each OMRON Unit or Component. If the CX-One is installed in a single computer, an integrated operating environment can be used all the way from setting OMRON PLC Units through system startup and monitoring to greatly increase system setup efficiency.

1-1-2 CX-One Features

Integrated Software Management for OMRON PLCs and Components

- One computer with the CX-One installed provides the Support Software required to handle any OMRON product.
- All of the Support Software can be installed with a single license.
- Files saved from the various Support Software can be centrally managed in one location.

Support Software for CPU Bus Units and Special I/O Units can be started from the I/O tables.

When Support Software is started from the I/O tables (i.e., the Unit Configuration Table registered in the PLC), PLC and Unit settings can be inherited so that they do not have to be re-entered every time Support Software is started.

Component and Network Profile Sheets (CPS)

- CPU Bus Units and Special I/O Units can be set without concern for memory addresses and without relying on operation manuals. Parameter names, selections, and setting ranges are automatically displayed.
- Online, settings for virtual Units on the computer can be compared to the settings in the actual Units, with any differences displayed in orange in the comparison results.
- The Unit configuration in I/O tables is displayed using Unit model numbers.
- Model and unit version checks can be performed when transferring data to actual Units.
- Device types on the network can be confirmed using Unit models.

Note Component and Network Profile Sheet (CPS) files contain CS/CJ-series Unit definitions or Component definitions within the CX-One. CPS files are provided in XML format. The CX-One uses CPS files to recognize CS/CJ-series Units. Settings for CPU Bus Units and Special I/O Units are also created based on CPS files.

1-2 Confirmation of CX-One Package Contents

1-2-1 Confirmation of CX-One Package Contents

CX-One Model Number and Contents

Name	Model	Installable Support Software		Other included data
CX-One Ver. 3.1	CXONE-AL□□C-V3/AL□□D-V3	CX-Programmer	Ver. 8	<ul style="list-style-type: none"> • OMRON Function Blocks (FB) • Smart Active Parts (Smart Active Parts) • CPS files • Manual (PDF)
		CX-Integrator	Ver. 2	
		CX-Simulator	Ver. 1	
		CX-Designer	Ver. 3	
		CX-Motion	Ver. 2	
		CX-Motion-NCF	Ver. 1	
		CX-Motion-MCH	Ver. 2	
		CX-Position	Ver. 2	
		CX-Drive	Ver. 1	
		CX-Protocol	Ver. 1	
		CX-Process Tool	Ver. 5	
		Faceplate Auto-Builder for NS	Ver. 3	
		CX-Thermo	Ver. 4	
		CX-FLnet	Ver. 1	
		Network Configurator	Ver. 3	
		CX-Configurator FDT	Ver. 1	
		CX-Server	Ver. 4	
SwitchBox Utility	Ver. 1			

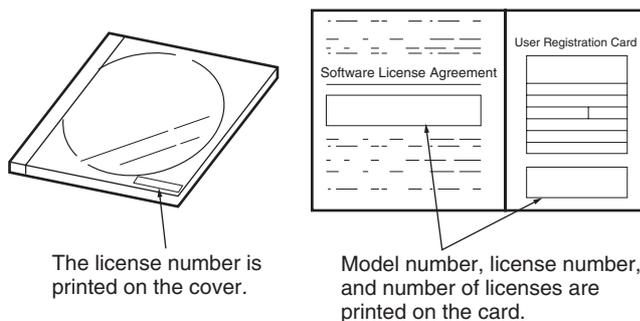
CX-One Contents

The contents of CX-One are listed in the following table. Please confirm that you have received everything.

CXONE-AL□□C-V3/CXONE-AL□□D-V3 CX-One FA Integrated Tool Package

Installation Disks (CXONE-AL□□C-V3: CD-ROM)	3 disks
Installation Disks (CXONE-AL□□D-V3: DVD)	1 disk
CX-One Introduction Guide (Cat. No. R145)	PDF manuals in the CD-ROM or DVD (Only the main manuals are listed.)
CX-Programmer Introduction Guide (Cat. No. R132)	
CX-Designer Introduction Guide (Cat. No. V089)	
CX-Programmer Function Block/Structured Text Introduction Guide (Cat. No. R144)	
SFC Introduction Guide (Cat. No. R149)	
Integrated Simulation Introduction Guide (Cat. No. V408)	
CX-One Setup Manual (Cat. No. W463) (this manual)	
CX-Programmer Operation Manual (Cat. No. W446)	
CX-Programmer Operation Manual: Function Blocks and Structured Text (Cat. No. W447)	
CX-Programmer Operation Manual: SFC (Cat. No. W469)	
CX-Integrator Operation Manual (Cat. No. W464)	
CX-Simulator Operation Manual (Cat. No. W366)	
CX-Designer User's Manual (Cat. No. V099)	
CX-Motion-NCF Operation Manual (Cat. No. W436)	
CX-Motion-MCH Operation Manual (Cat. No. W448)	
CX-Position Operation Manual (Cat. No. W433)	
CX-Drive Operation Manual (Cat. No. W453)	
CX-Protocol Operation Manual (Cat. No. W344)	
CX-Process Tool Software Operation Manual (Cat. No. W372)	
Faceplate Auto-Builder for NS Operation Manual (Cat. No. W418)	
Smart Function Blocks Reference Manual (Cat. No. W442)	
Smart Active Parts Reference Manual (See note.)	
CX-Thermo Operation Manual	Online help only
Software License Agreement/User Registration Card	1

Note PDF manuals are provided for each Unit.



Note The license number required for installation is printed on the Software License Agreement/User Registration Card. Place this card in a safe place and be sure not to lose the license number.

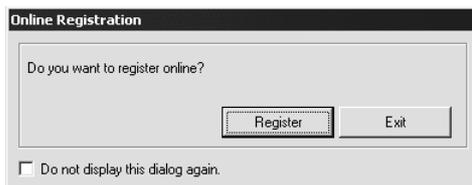
1-2-2 User Registration

Always perform user registration before using the CX-One.

Online User Registration (Internet Connection Required)

Registering from the Online Registration Dialog Box

- 1,2,3... 1. The following Online Registration Dialog Box will be displayed after when computer is restarted upon completion of CX-One installation.



2. Click the **Register** Button. A wizard will connect you to the OMRON CX-One website. (See note.)

Note If the **Exit** Button is clicked to cancel online registration, the Online Registration Dialog Box will be displayed every time Support Software in CX-One is started.

3. Enter the information required for user registration according to the site windows. Use the product key and license number given on the Software License Agreement/User Registration Card provided with the CX-One.
4. After completion of registration, registration confirmation will be sent to the email address input during the registration procedure.

Note The Online Registration Dialog Box will be displayed even if online registration has already been completed. If this happen, select the *Do not display this dialog again* option and click the **Exit** Button. Also use this procedure in the following cases.

- The Windows login name is different from the registered name.
- User registration was performed using the User Registration Postcard.

Online Registration from the CX-Programmer or other Support Software in CX-One

OMRON's CX-One website will be displayed if **Help - Online Registration** is selected from the menu bar of CX-Programmer or other Support Software in CX-One. Enter the information required for user registration according to the site windows. Use the product key and license number given on the Software License Agreement/User Registration Card provided with the CX-One.

Note Do not register more than once. For example, if you're returned the card, do not register online.

Using the User Registration Postcard

Enter the required information on the User Registration Postcard provided with the CX-One and send the card.

Note Approximately two weeks will be required from the time the User Registration Postcard is posted until confirmation of registration is returned to you. Downloading OMRON Standard Libraries and other operations allowed only for registered users will not be possible during this period.

1-3 Support Software in CX-One

1-3-1 Support Software in CX-One and Reference Manuals

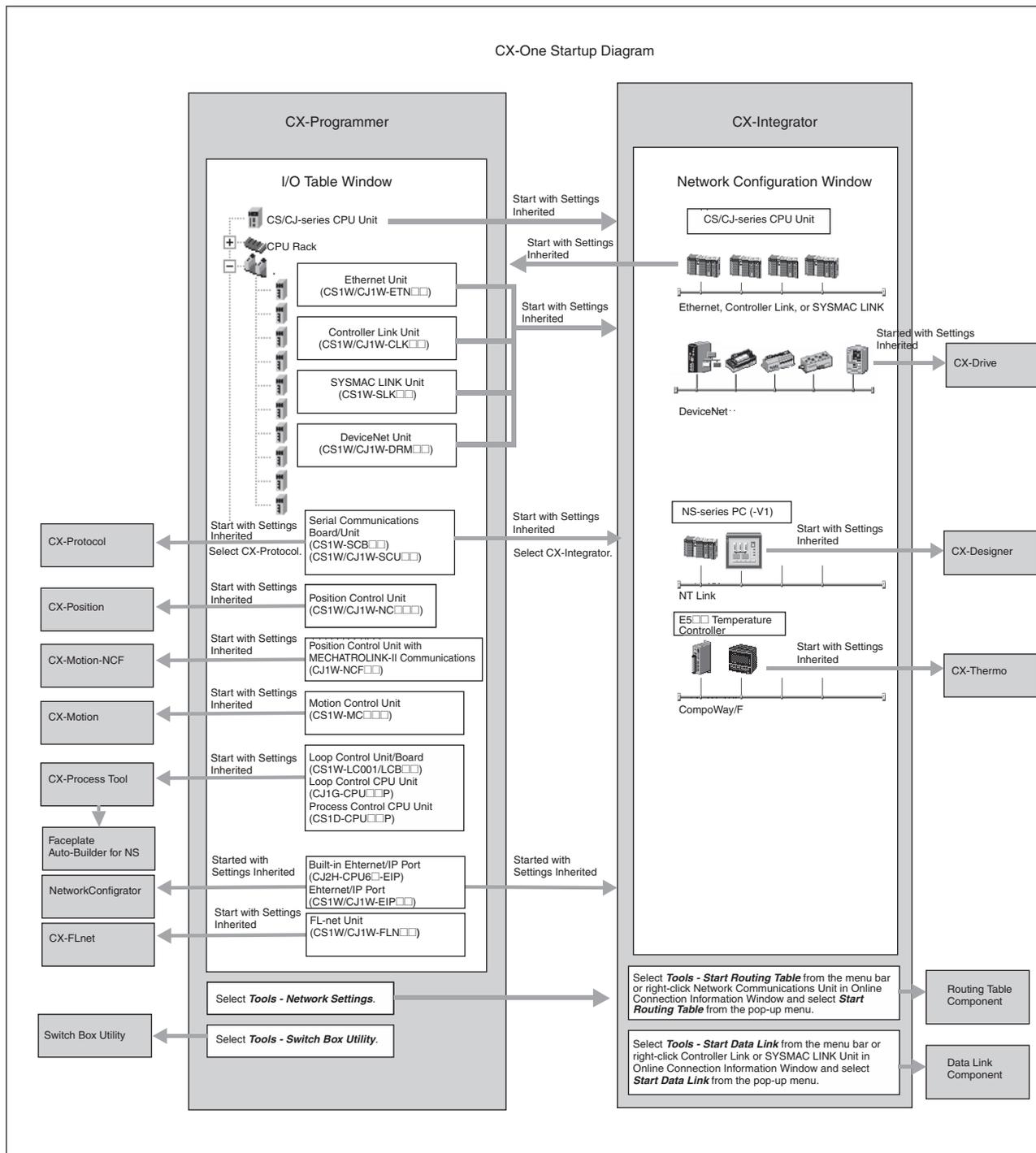
The following tables lists the Support Software that can be installed from CX-One along with the startup methods and the reference manuals for each.

Support Software in CX-One	Outline	Startup method within CX-One	Documentation (PDF manuals provided in CD-ROM)
CX-Programmer	Application software to create and debug programs for SYSMAC CS/CJ/CP/NSJ-series, C-series, and CVM1/C-series CPU Units, and to create and monitor data for SYSMAC CS/CJ-series Position Control Units (High-speed Type only).	Started from a PLC in the CX-Integrator Network Configuration Window.	CX-Programmer Operation Manual (Cat. No. W446) CX-Programmer Operation Manual: Function Blocks and Structured Text (Cat. No. W447) CX-Programmer Operation Manual: SFC (Cat. No. W469)
CX-Integrator	Application software to build and set up FA networks, such as Controller Link, DeviceNet, CompoNet, CompoWay, and Ethernet networks. The Routing Table Component and Data Link Component can be started from here. DeviceNet Configuration functionality is also included.	Started by selecting Tools - Network Settings from the CX-Programmer menu bar or from a CPU Unit in the CX-Programmer I/O tables.	CX-Integrator Operation Manual (Cat. No. W464)
Switch Box Utility	Utility software that helps you to debug PLCs. It helps you to monitor the I/O status and to monitor/change present values within the PLC you specify.	Started from the CX-Programmer Tools Menu.	Online Help
CX-Protocol	Application software to create protocols (communications sequences) between SYSMAC CS/CJ/CP/NSJ-series or C200HX/HG/HE Serial Communications Boards/Units and general-purpose external devices.	Started from a Serial Communications Board or Unit in the CX-Programmer I/O tables.	CX-Protocol Operation Manual (Cat. No. W344)
CX-Simulator	Application software to simulate SYSMAC CS/CJ/CP/NSJ-series CPU Unit operation on the computer to debug PLC programs without a CPU Unit.	---	CX-Simulator Operation Manual (Cat. No. W366)
CX-Position	Application software to create and monitor data for SYSMAC CS/CJ-series Position Control Units (except for High-speed Type).	Started from a Position Control Unit in the CX-Programmer I/O tables.	CX-Position Operation Manual (Cat. No. W433)
CX-Motion-NCF	Application software to monitor and set parameters for SYSMAC CS/CJ-series Position Control Units and Servo Drivers that support MECHATROLINK-II communications.	Started from an NCF Position Control Unit in the CX-Programmer I/O tables.	CX-Motion-NCF Operation Manual (Cat. No. W436)
CX-Motion-MCH	Application software to create data for SYSMAC CS/CJ-series MCH Units, create motion programs, and perform monitoring.	Started from a Motion Control (MCH) Unit in the CX-Programmer I/O tables.	CX-Motion-MCH Operation Manual (Cat. No. W448)
CX-Motion	Application software to create data for SYSMAC CS/CJ-series, C200HX/HG/HE, and CVM1/CV-series Motion Control Units, and to create and monitor motion control programs.	Started from a Motion Control Unit in the CX-Programmer I/O tables.	---
CX-Drive	Application software to set and control data for Inverters and Servos.	Started from an Inverter or Servo in the CX-Integrator Network Configuration Window.	CX-Drive Operation Manual (Cat. No. W453)

Support Software in CX-One	Outline	Startup method within CX-One	Documentation (PDF manuals provided in CD-ROM)
CX-Process Tool	Application software to create and debug function block programs for SYSMAC CS/CJ-series Loop Controllers (Loop Control Units/Boards, Process Control CPU Units, and Loop Control CPU Units).	Started from a Loop Controller in the CX-Programmer I/O tables.	CX-Process Tool Operation Manual (Cat. No. W372)
Faceplate Auto-Builder for NS	Application software that automatically outputs screen data as project files for NS-series PTs from tag information in function block programs created with the CX-Process Tool.	Started by selecting <i>Execute - Create Tag File - Start NSFP</i> from the CX-Process Tool menu bar (starts automatically after execution of the CSV tag compiler).	Faceplate Auto-Builder for NS Operation Manual (Cat. No. W418)
CX-Designer	Application software to create screen data for NS-series PTs.	Started from a NS-series PT in the CX-Integrator Network Configuration Window.	CX-Designer User's Manual (Cat. No. V099)
CX-Configurator FDT	Application software for setting various units by installing its DTM module.	Started from a PROFIBUS-DP Unit in the CX-Programmer I/O tables.	---
CX-Thermo	Application software to set and control parameters in components such as Temperature Control Units.	Started from a E5□R, E5□N, or E5ZN Temperature Control Unit in the CX-Integrator Network Configuration Window.	Online Help
CX-FLnet	Application software for system setting and monitoring of SYSMAC CS/CJ-series FL-net Units	Started from a FL-net Unit in the CX-Programmer I/O tables.	---
Network Configurator	Application software for setting tag data links for CJ2(Built-in EtherNet/IP) CPU Units and EtherNet/IP Units.	Started from a built-in Ethernet/IP port or Ethernet/IP Unit in the CX-Programmer I/O tables.	---
CX-Server	Middleware necessary for CX-One applications to communicate with OMRON components, such as PLCs, Display Devices, and Temperature Control Units.	---	---
PLC Tools (Installed automatically.)	A group of components used with CX-One applications, such as the CX-Programmer and CX-Integrator. Includes the following: I/O tables, PLC memory, PLC Setup, Data Tracing/Time Chart Monitoring, PLC Error Logs, File Memory, PLC clock, Routing Tables, and Data Link Tables.	Components are started from the various Support Software.	Refer to documentation of individual Support Software.

1-3-2 Starting Support Software in CX-One

Support Software in CX-One can be started from the I/O tables in the CX-Programmer, from the Network Configuration Window in the CX-Integrator, or from the Tools Menus as shown in the following diagram. This is called the Specialized Support Tool startup function and it is enabled when the CX-Programmer and other Support Software is installed from the CX-One.



Starting while Inheriting Settings

- Setting the device type is not required every time different Support Software is started.
- The online connection is also inherited by the newly opened Support Software.
- New project files are automatically created for the newly opened Support Software.

Starting with or without Inheriting Settings

If **Open - Save As** is selected after starting Support Software, the save to folder will be the same as the one used with the CX-Programmer.

1-4 System Requirements

1-4-1 System Requirements

The system requirements for the CX-One are given in the following table.

Item	Requirement	
Operating system (OS) (See note 1.) Japanese or English system	Microsoft Windows 2000 (Service Pack 3 or higher) or XP	Microsoft Windows Vista (See note 4.)
Computer	IBM PC/AT or compatible with a Pentium II 333 MHz or faster processor (Pentium III 1 GHz or faster recommended.)	IBM PC/AT or compatible with a processor recommended by Microsoft. (1 GHz or faster recommended)
Memory	256 MB minimum (See note 2.)	512 MB min. required. 1 GB min. recommended.
Hard disk	Approx. 2.5 GB or more available space is required to install the complete CX-One package.	
Display	SVGA (800 × 600) or better high-resolution display with 256 colors min.	
Disk drive	CD-ROM drive or DVD-ROM drive	
Communications ports	RS-232C port, USB port, or Ethernet port (see note 3.)	
Other	Internet access is required for online user registration, including a modem or other hardware connection method.	

Note

- (1) CX-One Operating System Precaution
System requirements and hard disk space may vary with the system environment.
- (2) The amount of memory required varies with the Support Software used in CX-One for the following Support Software. Refer to user documentation for individual Support Software for details.
CX-Programmer, CX-Designer, CX-Thermo, CX-Simulator, CX-Protocol, CX-Motion, CX-Drive, CX-Process Tool, and Faceplate Auto-Builder for NS
- (3) An RS-232C port is required to connect the Support Software in CX-One to a PLC. If the computer provides only a USB port, use a CS1W-CIF31 USB-to-RS-232C Conversion Cable. For connecting to the CP Series, however, an over-the-counter USB cable (type A-B) can be used.
For the CX-Drive, the CS1W-CIF31 USB-to-RS-232C Conversion Cable cannot be used to connect a USB port on the computer to the 3G3MV. Use the recommended commercially available USB-serial conversion cable. For details, refer to the *CX-Drive Programmable Controller Operation Manual* (Cat. No. W453).

- 1) Some Help files cannot be accessed.

The Help files can be accessed if the Help program distributed by Microsoft for Windows Vista (WinHlp32.exe) is installed. Refer to the Microsoft homepage listed below or contact Microsoft for details on installing the file. (The download page is automatically displayed if the Help files are opened while the user is connected to the Internet.)

<http://support.microsoft.com/kb/917607/en-us>

- 2) The following restrictions apply to some application operations.

Application	Restriction
CX-Designer	<ul style="list-style-type: none">• If a new Windows Vista font (e.g., Meiryo) is used in a project, the font size on labels may be bigger and protrude from the components if the project is transferred from CX-Designer running on a Windows XP or earlier OS to the NS/NSJ.
CX-Process	<ul style="list-style-type: none">• When <i>File – Active Serial Port Driver</i> is selected, a message stating that FinsGateway initialization failed may be displayed and the serial driver may not be initialized.

1-4-2 Hard Disk Space Requirements for Support Software in CX-One

Support Software in CX-One	Approx. hard disk space required.	Remarks
CX-Programmer	Approx. 260 MB	Options can be selected or cleared to install or not install individual Support Software.
CX-Integrator	Approx. 360 MB	
CX-Position	Approx. 15 MB	
CX-Motion	Approx. 45 MB	
CX-Motion-NCF	Approx. 150 MB	
CX-Motion-MCH	Approx. 60 MB	
CX-Drive	Approx. 150 MB	
CX-Designer	Approx. 730 MB	
CX-Process Tool	Approx. 100 MB	
Faceplate Auto-Builder for NS	Approx. 70 MB	
CX-Protocol	Approx. 20 MB	
CX-Simulator	Approx. 60 MB	
CX-Thermo	Approx. 90 MB	
CX-FInet	Approx. 2 MB	
Switch Box	Approx. 5 MB	
Network Configurator	Approx. 20 MB	Always installed. (See note 1.)
CX-Server and PLC Tools	Approx. 420 MB	

- Note**
- (1) Approximately 420 MB of unused space is required in the system drive (e.g., the C drive).
 - (2) If the complete CX-One package is installed, approximately 2.5 GB of hard disk space will be required (including workspace required for installation). Check available space on your hard disk before installing software.

SECTION 2 Installation and Uninstallation

This section describes how to install and uninstall the software provided in the CX-One.

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2-1 Installing the CX-One

2-1-1 Confirmations before Installation

Time Requirements

The CX-One FA Integrated Tool Package integrates all of the Support Software for OMRON PLCs and Components. If the complete CX-One package is installed, between approximately 15 and 45 minutes will be required for installation depending on the performance of the computer.

Precautions for Installation

- Close all programs running on Windows before starting the installation procedure.
- The CX-One cannot be installed from a network drive, such as a CD drive or hard disk drive shared on a network. Always install the CX-One from a CD drive on the computer onto which the software is being installed.
- Do not install onto a compressing drive. Recovery will not be possible if file corruption occurs.
- Do not stop the setup process in the middle. Copied files may remain in the installation directory.
- Do not turn OFF or reset the computer in the middle of the installation process. Computer data may become corrupted.
- For Windows 2000, Service Pack 3 or later must be installed. The service pack can be confirmed by selecting **Start - Settings - Control Panel - System**. The service pack will be displayed under *System* on the General Tab Page of the System Properties Dialog Box. If a service pack is not displayed, no service pack has been installed. Refer to Microsoft's website for service pack installation methods.
- On Windows 2000, XP, or Vista, the administrator or a user with administrator rights must perform the installation. Other users will not have sufficient write permissions and access errors will occur.
- It may be necessary to restart Windows after finishing the installation. If required, restart Windows according to the messages displayed by the Installer.

2-1-2 Installing the CX-One

The following procedure is for installing the CX-One when none of the Support Software in the CX-One has been previously installed.

The procedure is written for a CD-ROM, but it is the same for a DVD.

Note If the complete CX-One package is installed, approximately 2.5 GB of hard disk space will be required (including workspace required for installation). Check available space on your hard disk before installing software.

- 1,2,3...**
1. Insert disk 1 of the CX-One installation disks (CD-ROM) into the CD-ROM drive.
 2. The setup program will start automatically and the Choose Setup Language Dialog Box will be displayed.



The language of the operating system running on the computer will be selected automatically.

If the above dialog box is not displayed, double-click the CD-ROM driver from the Explorer to display it.

Select the language to be installed and then click the **OK** Button.

Note The CX-Programmer, CX-Integrator, and CX-Designer support languages other than English and Japanese (including Italian, Spanish, German, French, Simplified Chinese, and Traditional Chinese). The CX-Programmer also supports Korean. If any language other than English or Japanese is selected, the supported software will be installed in the selected language and all other software will be installed in English (United States).

When the **OK** Button is clicked, a splash window for the CX-One will be displayed, followed by the Setup Wizard.

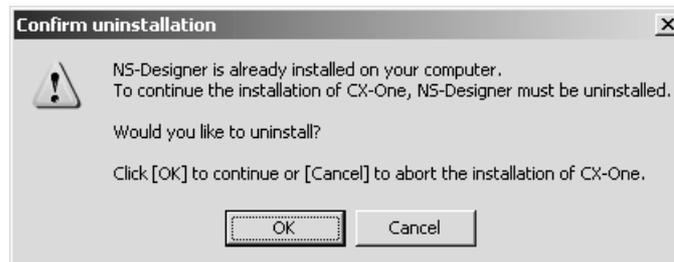
3. If the CX-Server is already installed on the computer, the following dialog box will be displayed as a prompt to delete the older version of the CX-Server.

Click the **OK** Button and uninstall the CX-Server. If the **Cancel** Button is clicked, CX-One installation will be exited.

If an earlier version of any of the Support Software is already installed in the computer, one of the following dialog boxes will be displayed.

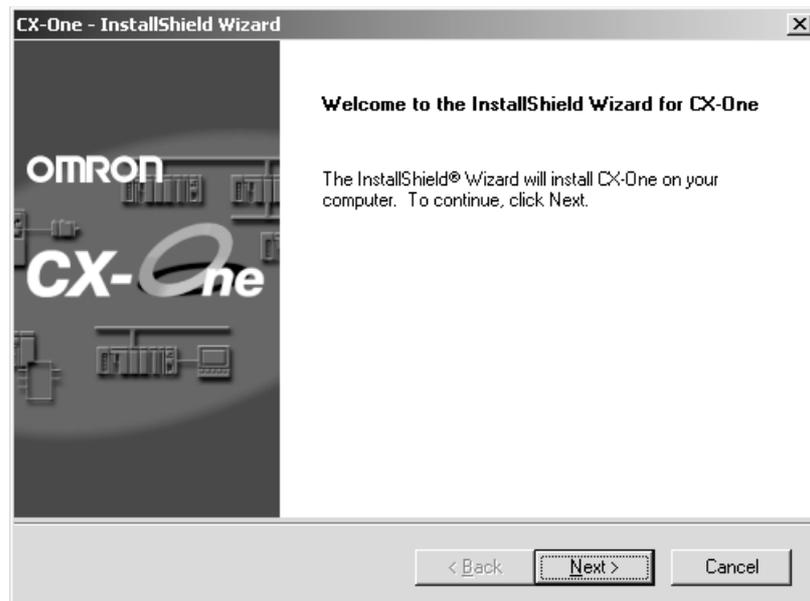
Dialog Box When an Earlier Version of the CX-Programmer Is Installed

Click the **OK** Button and uninstall the earlier version of the CX-Programmer. If the **Cancel** Button is clicked, CX-One installation will continue without uninstalling the earlier version of the CX-Programmer. This would result in there being two versions of the CX-Programmer installed at the same time, so we recommend always clicking the **OK** Button.

Dialog Box When an Earlier Version of Other Support Software Is Installed

Click the **OK** Button and uninstall the earlier version of the Support Software. If the **Cancel** Button is clicked, CX-One installation will be canceled.

4. The CX-One Setup Wizard will be started. Click the **Next** Button.

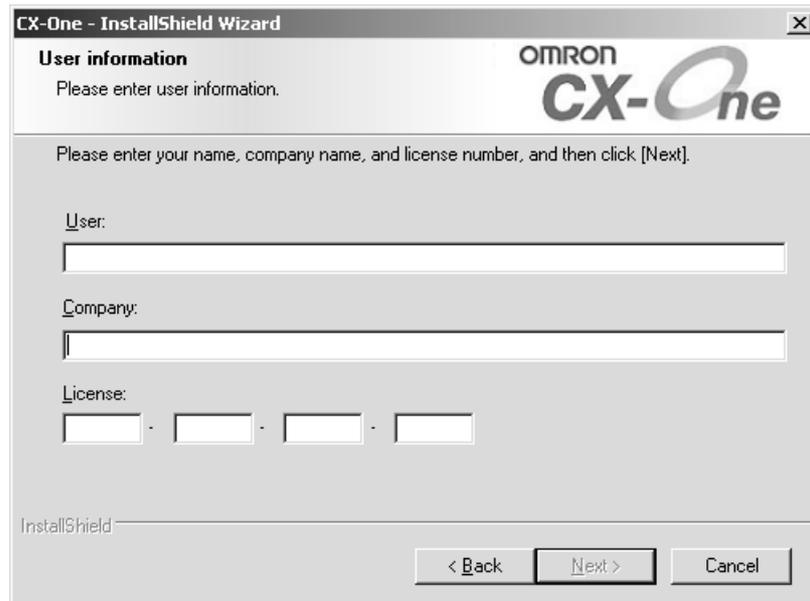


- 5. The License Agreement Dialog Box will be displayed.



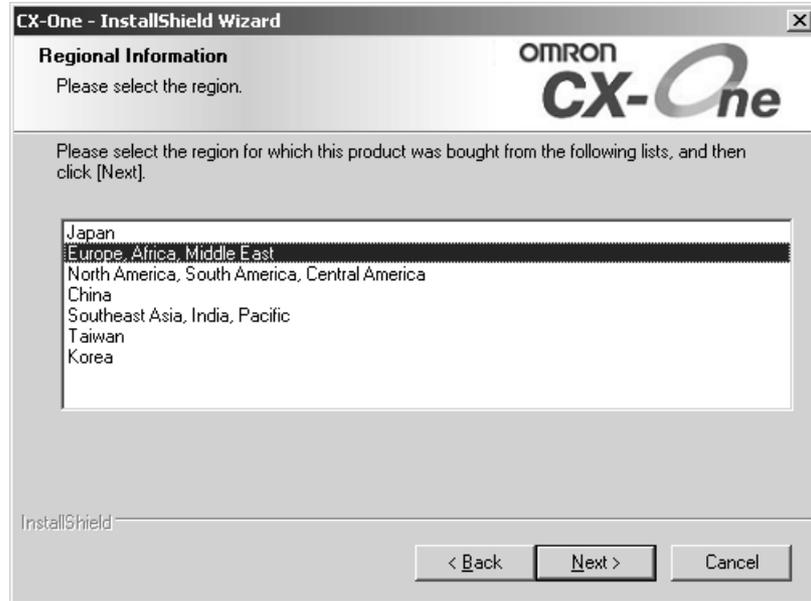
Read the license agreement completely and if you accept all of the terms, select the *I accept the terms of the license agreement* Option and click the **Next** Button.

- 6. The User Information Dialog Box will be displayed.



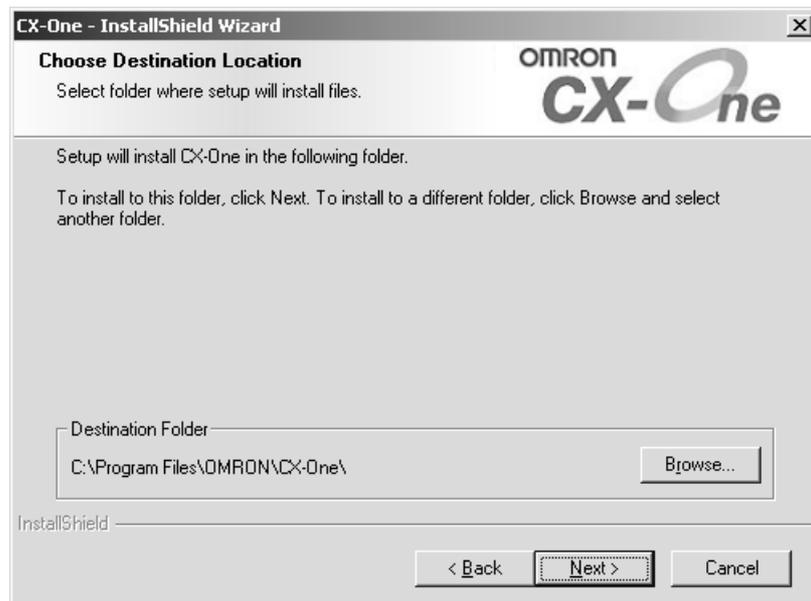
The default names registered in the computer will be entered for the user name and company name. Enter the license number and click the **Next** Button. The license number is given on the Software License/Registration Card provided with the product.

- The Regional Information Dialog Box will be displayed.



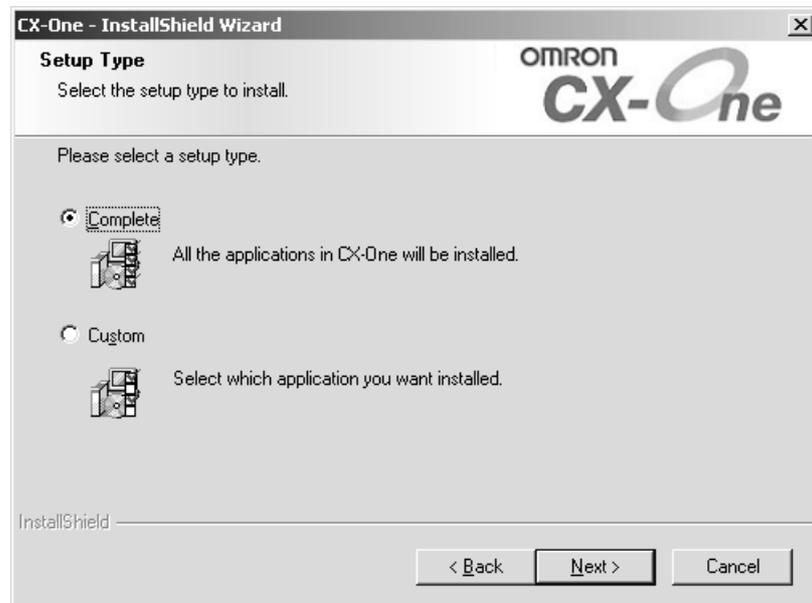
Select the region in which the software was purchased and click the **Next** Button.

- The Choose Destination Location Dialog Box will be displayed.



Select the destination location and click the **Next** Button. By default, the CX-One will be installed in C:\Program Files\OMRON\CX-One\.

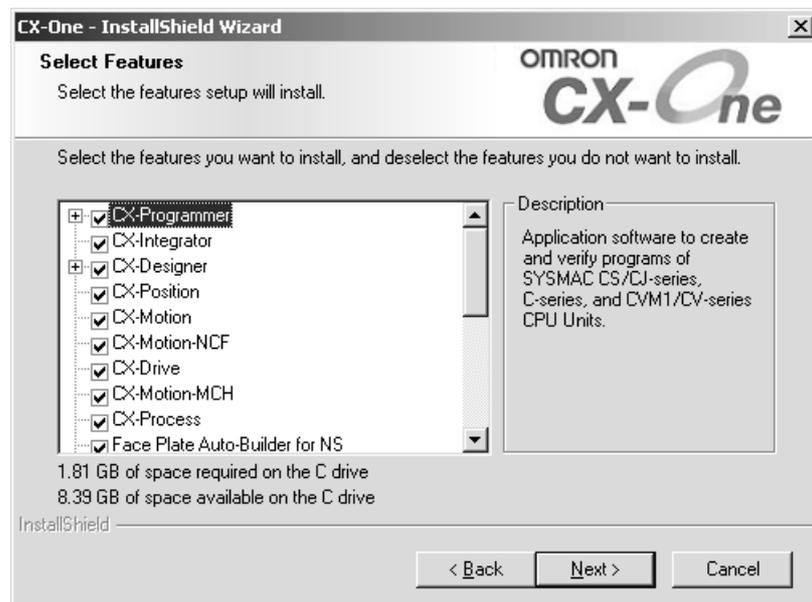
- The Setup Type Dialog Box will be displayed.



Select the *Complete* or *Custom* Option and click the **Next** Button.

- Note**
- (1) CX-One installation will require approximately the same amount of time (approximately 15 to 40 minutes) regardless of whether *Complete* or *Custom* is selected. As a rule, select *Complete* and install the entire package at the same time provided that there is sufficient disk space available.
 - (2) CX-Configurator FDT will normally not be installed. Select *Custom* and then select *CX-Configurator FDT* to install it.

The Select Features Dialog Box will be displayed if *Custom* was selected.



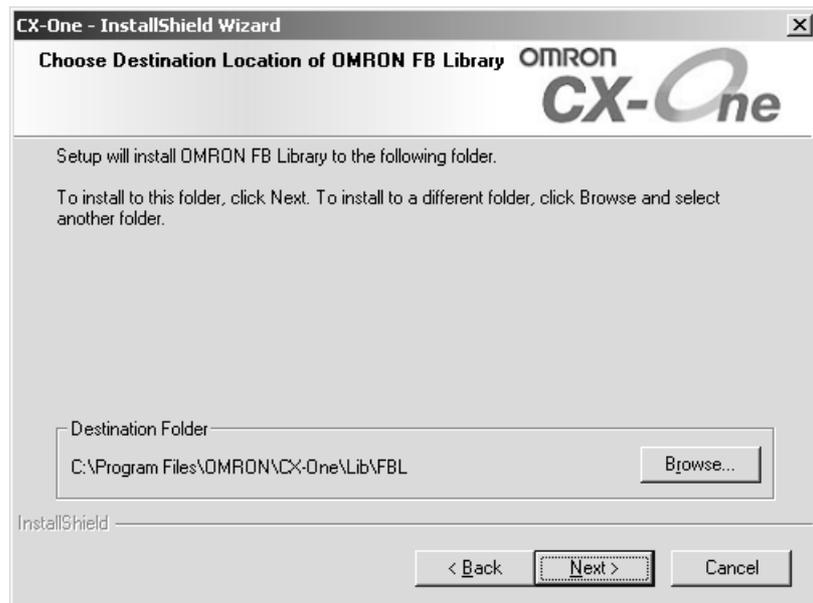
Note The above dialog box will not be displayed if *Complete* is selected. Proceed to step 10.

Select the features to be installed and click the **Next** Button.

Options

- CX-Programmer
- CX-Integrator
- CX-Designer
- CX-Position
- CX-Motion
- CX-Motion-NCF
- CX-Drive
- CX-Motion-MCH
- CX-Process
- Face Plate Auto-Builder for NS
- CX-Protocol
- CX-Thermo
- CX-Simulator
- SwitchBox
- Network Configurator
- CX-FLnet
- CX-Server (Selected and grayed out.)
- PLC Tools (Selected and grayed out.)

10. If *Complete* was selected or if *Custom* was selected and the Smart FB Library feature was selected, the *Choose Destination Location of the OMRON FB Library* Dialog Box will be displayed.



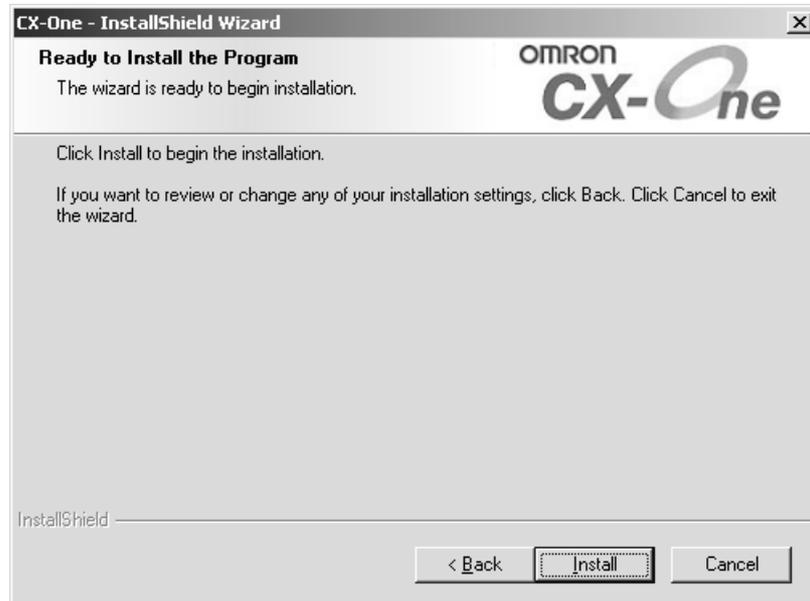
Check the destination location and click the **Next** Button. By default, the Smart FB Library will be install in C:\Program Files\OMRON\CX-One\FBL\.

11. The Select Program Folder Dialog Box will be displayed.



Specify the location to add a shortcut in the program folder of the Windows Start Menu and click the **Next** Button.

- 12. The Ready to Install the Program Dialog Box will be displayed.



Click the **Install** Button. The Installer will start the installation.

To check the installation settings, click the **Back** Button. To cancel installation, click the **Cancel** Button.

- 13. The OMRON SYSMAC PLC/NS USB Device Driver Installer will be displayed. Click the **Next** Button.



14. The following message will be displayed. Click the **Continue Anyway** Button.

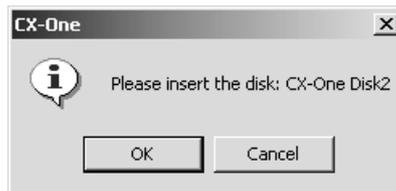


15. The following dialog box will appear after the USB device driver has been installed.

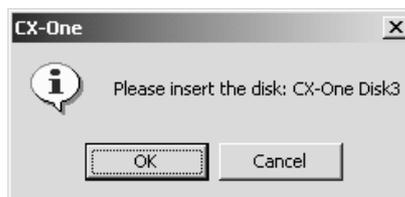


Click the **Finish** Button. Installation of the CX-One will be continued.

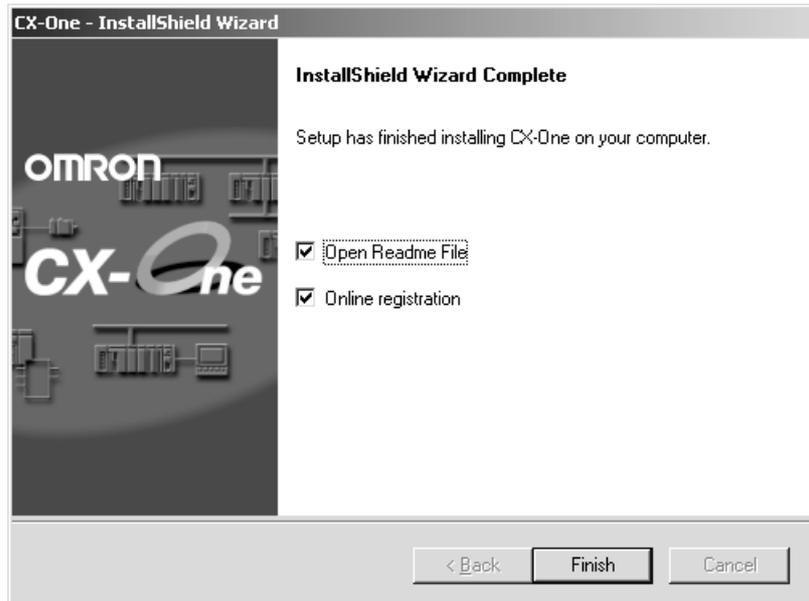
- 16. The following dialog box will be displayed. Replace the installation disk (CD-ROM) as instructed by the message and click the **OK** Button. This dialog box is not displayed if the software is being installed from a DVD.



Alternatively:

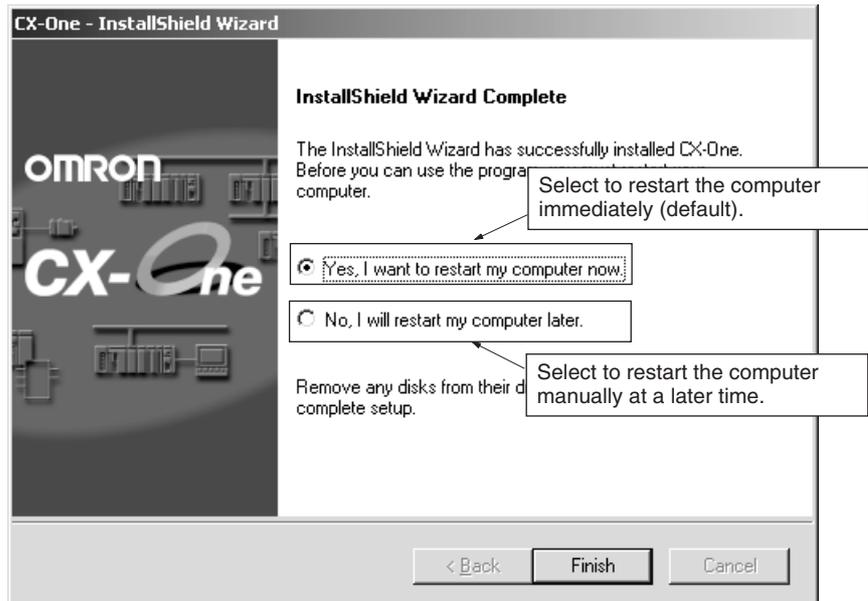


17. The following dialog box will be displayed when the Installer completes the installation.



Click the **Finish** Button. The Readme file will be displayed.

The following dialog box will be displayed if restarting the computer is required.



Select the desired option and click the **Finish** Button. If the *Yes, I want to restart my computer now* Option is selected, the computer will be restarted and then the Readme file will be displayed.

Note (a) It may be necessary to restart Windows after finishing the installation. If required, restart Windows according to the messages displayed by the Installer.

(b) Always read the Readme.txt file before using the CX-One.

18. The Online Registration Dialog Box will be displayed when the Readme file is closed.



A wizard will be started and will connect to the OMRON CX-One website if the **Register** Button is clicked. (See notes a and b.)

Note (a) If the **Exit** Button is clicked to cancel registration, the Online Registration Dialog Box will be displayed every time CX-One Support Software is started.

(b) Online installation will not be possible if the computer is not connected to the Internet. Enter the required information on the registration card and mail it in.

This completes installation of the CX-One.

- Note**
- (1) Even if the previous versions for Support Software in the CX-One are uninstalled, the folders for the previous versions will remain in C:\Program Files\OMRON. By default, the project files and other files that were created by the Support Software (e.g., .cxp project files for CX-Programmer) will be in this directory. If this data is to be used by the CX-One, we recommended moving the files to suitable folders after installing CX-One.
 - (2) Any OMRON Support Software or Communications Middleware that is not included in CX-One will remain installed on the hard disk even after the CX-One is installed. This will not create any particular problems.

Examples:

- DeviceNet Configurator (Support Software)
- FinsGateway (Communications Middleware)

2-2 CX-One Maintenance

The following maintenance can be performed once the CX-One has been installed.

- 1,2,3...**
1. Modifying the installed Support Software in the CX-One
 2. Re-installing the Support Software in the CX-One that was previously installed
 3. Removing all the Support Software in the CX-One

2-2-1 Modifying the Installed Support Software in the CX-One

The CX-One Support Software that is installed can be modified using the following procedure.

- Note** Whenever installing from an individual Support Software CD-ROM any Support Software that has previously been installed from the CX-One Package, always uninstall the previous Support Software first. Use the following procedure and clear the selection for only the individual Support Software to be reinstalled. When the installation procedure has been completed, then install the Support Software from the individual Support Software CD-ROM. The

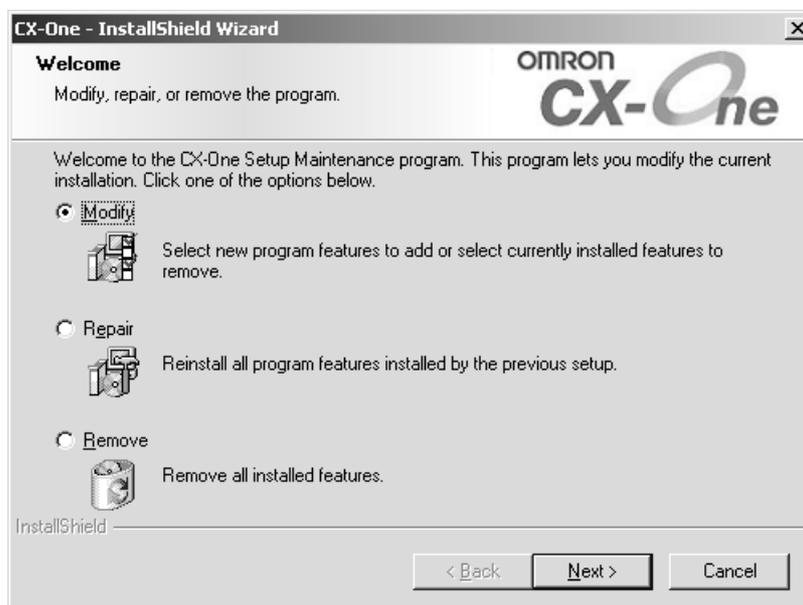
Support Software will not operate properly if it is installed without first uninstalling it.

If the version of the CX-Server on the individual Support Software CD-ROM is lower than the version of the CX-Server bundled with the CX-One, install only the CX-Position and NOT the CX-Server. (A message will be displayed if the version is lower.) If a version of CX-Server that is lower than the version with the CX-One is installed, the CX-One will not operate properly.

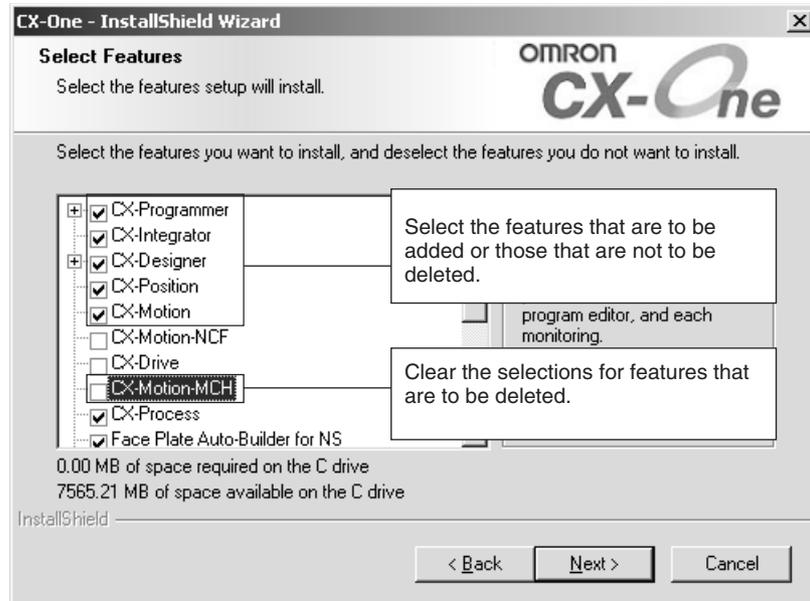
- 1,2,3...**
1. Insert disk 1 of the CX-One installation disks (CD-ROM) into the CD-ROM drive.
 2. The Choose Setup Language Dialog Box will be displayed and the language of the operating system running on the computer will be selected automatically.
(If the following dialog box is not displayed, double-click the CD-ROM driver from the Explorer to display it.)
Select the language to be installed and then click the **OK** Button.



3. A splash window for the CX-One will be displayed, and the installation modification process will start.
4. The CX-One Maintenance Wizard will be displayed.
Select the *Modify* Option and click the **Next** Button.



- The Select Features Dialog Box will be displayed. The features that are selected will change depending on the CX-One Support Software already installed in the computer. The CX-One installation will be modified according to the features selected here.



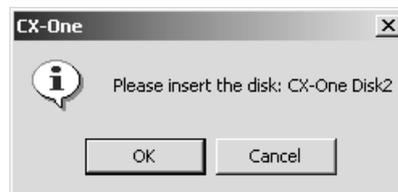
- Select the features to be added.
- Be sure that all features that are not to be deleted are selected.
- Clear the selections for features to be removed.

Note Any Support Software feature that is not selected here will be deleted from the compute. Check the selections carefully.

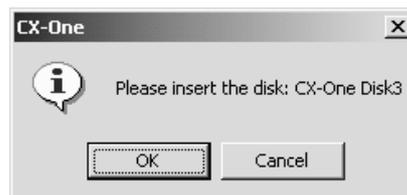
Click the **Next** Button.

The CX-One installation will be modified according to the feature selections. Continue with the installation procedure according to the messages displayed by the Installation Wizard.

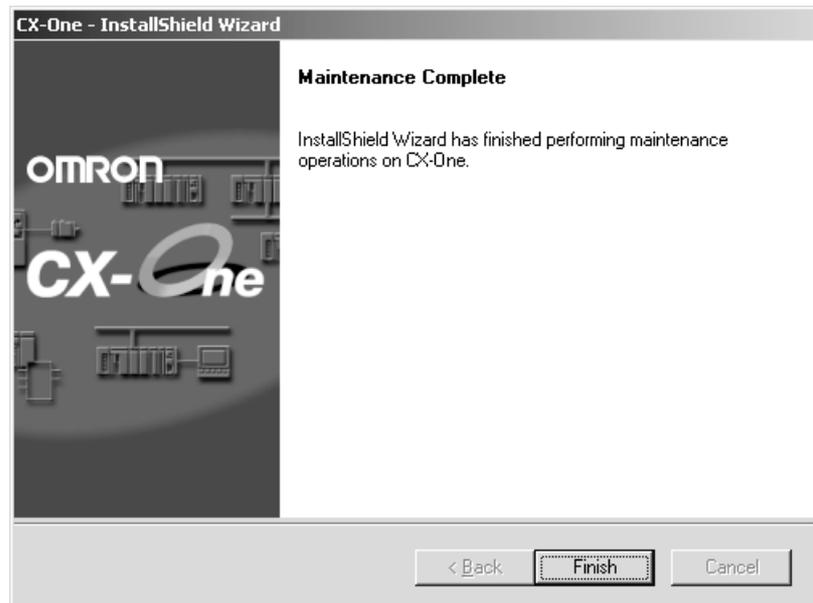
- If either of the following dialog boxes is displayed, replace the installation disk (CD-ROM) as instructed by the message and click the **OK** Button. This dialog box is not displayed if the software is being installed from a DVD.



Alternatively:



- The following dialog box will be displayed when the Installer completes modifying the installation. Click the **Finish** Button.



2-2-2 Re-installing the Support Software in the CX-One

The previously installed Support Software can be re-installed using the following procedure. This procedure should be used to restore a previous installation, e.g., if previously installed CX-One Support Software has been deleted by accident.

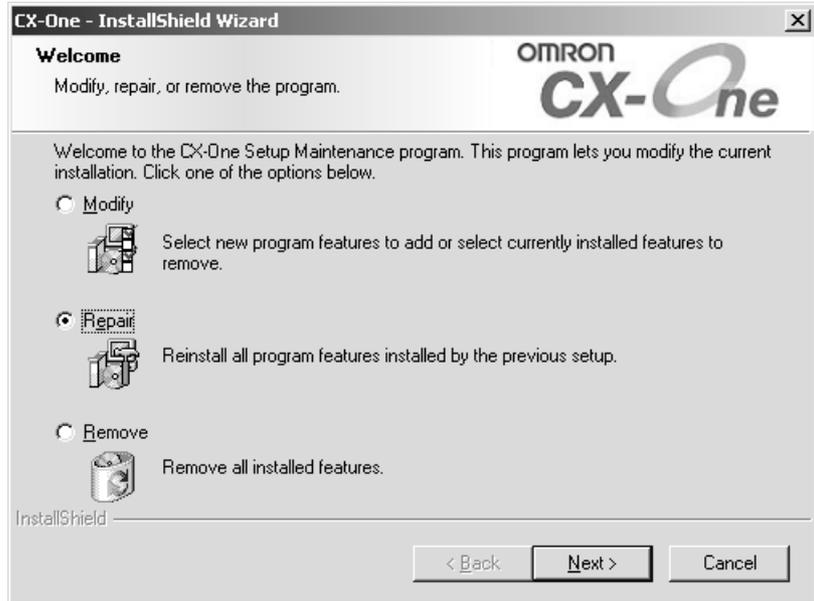
- 1,2,3...** 1. Insert disk 1 of the CX-One installation disks (CD-ROM) into the CD-ROM drive.
2. The Choose Setup Language Dialog Box will be displayed and the language of the operating system running on the computer will be selected automatically.

(If the following dialog box is not displayed, double-click the CD-ROM driver from the Explorer to display it.)

Select the language to be installed and then click the **OK** Button.



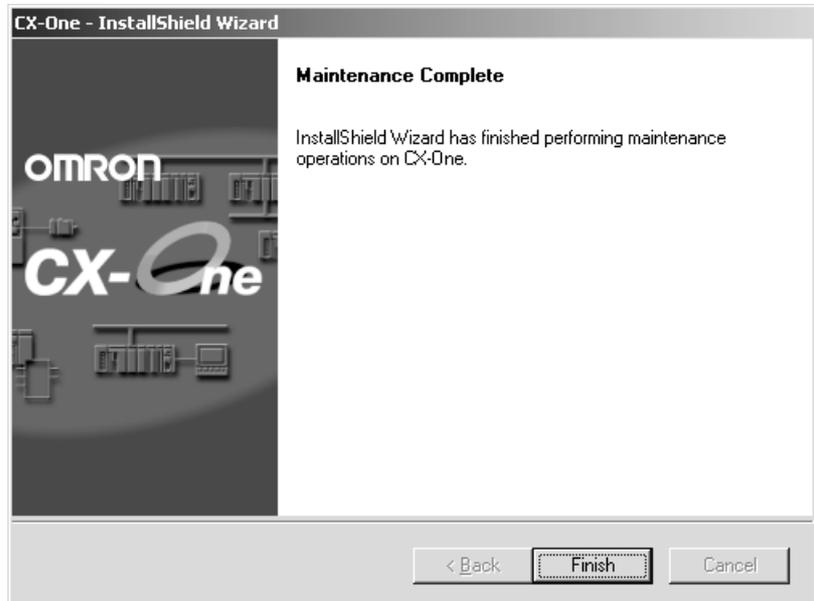
3. A splash window for the CX-One will be displayed, and the re-installation process will start. The CX-One Installation Wizard will be displayed.



Select the *Repair* Option and click the **Next** Button.

The previously installed CX-One Support Software will be re-installed. Continue with the installation procedure according to the messages displayed by the Installation Wizard.

4. The following dialog box will be displayed when the Installer completes re-installing the software. Click the **Finish** Button.

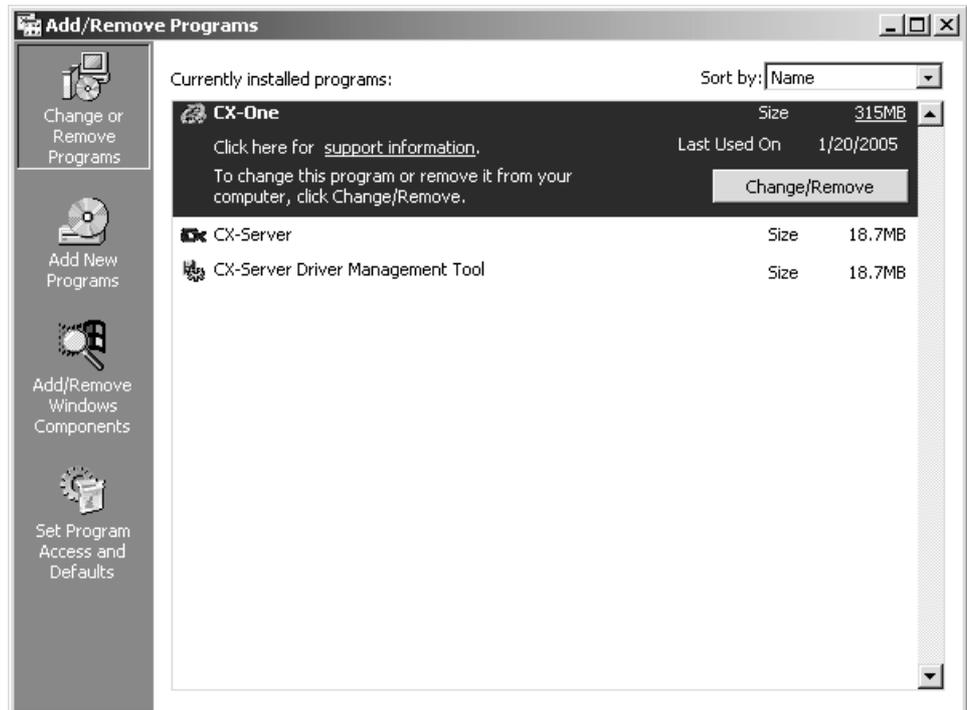


2-2-3 Removing all the Support Software in the CX-One

Use the following procedure to delete all of the Support Software in the CX-One from the computer.

Note The CX-Server will not be deleted from the computer even if all CX-One Support Software is deleted. The CX-Server must be uninstalled separately to delete it.

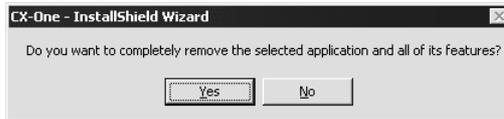
- 1,2,3...**
1. Select **Start - Settings - Control Panel - Add/Remove Programs**. The Add/Remove Programs Dialog box will be displayed.
 2. Select **CX-One** from the dialog box.
 3. Click the **Change/Remove** Button.



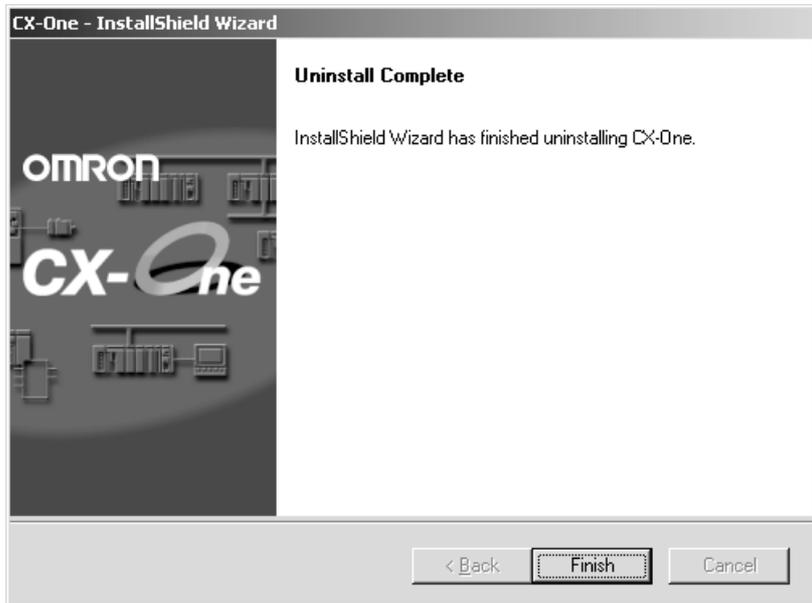
- The CX-One Installation Wizard will be displayed. Select the *Remove* Option and click the **Next** Button.



- The following dialog box will be displayed to confirm that all CX-One software is to be removed. Click the **Yes** Button to start the Uninstaller that will delete the CX-One and then follow the messages in the dialog boxes to delete the CX-One.



- When the uninstallation has been completed, the following dialog box will be displayed. Click the **Finish** Button.

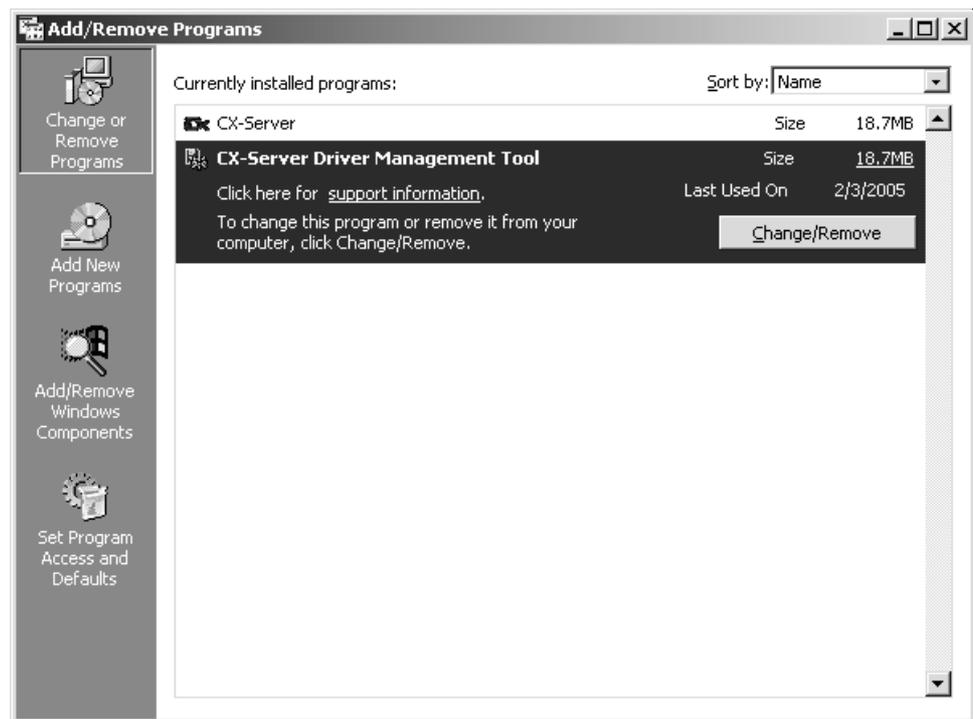


2-2-4 Uninstalling the CX-Server

Always uninstall the CX-Server Driver Management Tools before uninstalling the CX-Server.

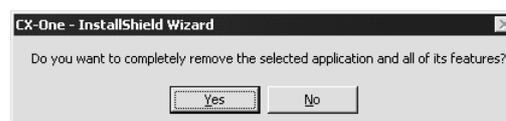
- Note**
- (1) Do not uninstall the CX-Server if there are other programs on the computer that use it as the communications driver, e.g., the CX-Programmer. If the CX-Server is uninstalled, it will no longer be possible to use these other programs.
 - (2) Do not uninstall the CX-Server while other programs that use it as the communications driver are running on the computer, e.g., the CX-Programmer. The CX-Server may not uninstall properly if other programs are using it.
 - (3) When uninstalling all of the CX-Server software, always uninstall the CX-Server Driver Management Tool before uninstalling the CX-Server. If the CX-Server is uninstalled first, it may no longer be possible to uninstall the CX-Server Driver Management Tool properly.

- 1,2,3...**
1. Select **Start - Settings - Control Panel - Add/Remove Programs**. The Add/Remove Programs Dialog Box will be displayed.



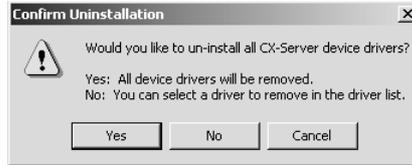
Select *CX-Server Driver Management Tool* from the dialog box and click the **Change/Remove** Button.

2. A file deletion confirmation dialog box will be displayed. Click the **Yes** Button.



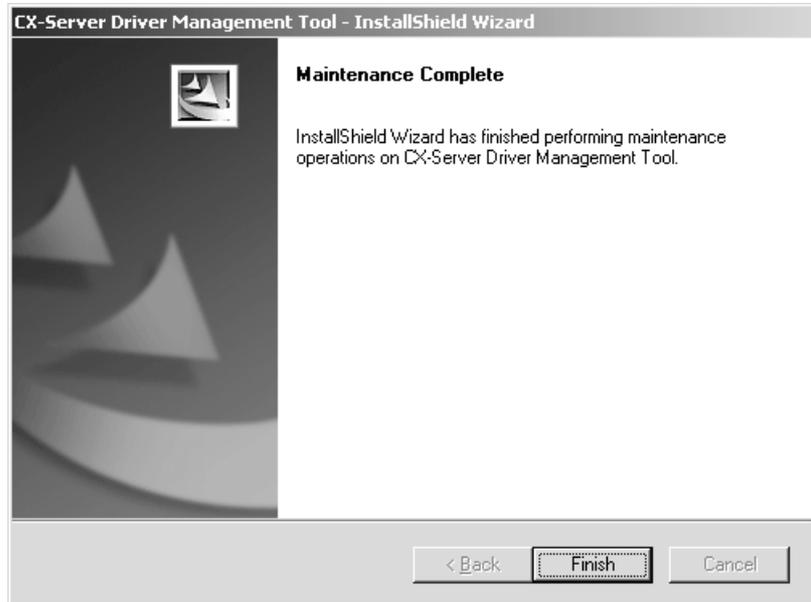
The CX-Server Driver Management Tool will be uninstalled.

3. An uninstall confirmation dialog box will be displayed. Click the **Yes** Button.



4. The CX-Server will be uninstalled.

When the uninstallation has been completed, the following dialog box will be displayed. Click the **Finish** Button. The Add/Remove Programs Dialog Box will be displayed again.



5. In the same way, select *CX-Server* from the Add/Remove Programs Dialog Box, click the **Change/Remove** Button, and uninstall the CX-Server by repeating steps 2 though 4.
6. Restart the computer when all programs have been uninstalled.

SECTION 3

Application Upgrades Using Auto Updates

This section describes the CX-One auto update function.

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3-2-4	Uninstalling CX-One Updates	41
3-3	Periodic Notification of Auto Updates	41
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3-1 Outline

3-1-1 Auto Update

The CX-One auto update function is a system for updating the Support Software included with the CX-One over the Internet. When the CX-One auto update function is enabled, applicable updates for the CX-One Support Software are automatically found. The CX-One installed on the personal computer can be updated to the latest version by installing the updates that are found.

- The auto update function is automatically enabled when the CX-One is installed.
- The auto update function can be used for CX-One version 2.0 or higher.

3-2 Using Auto Update

3-2-1 Preparations

Points to Check Before Using Auto Update

Be sure the following has been performed before using the auto update function.

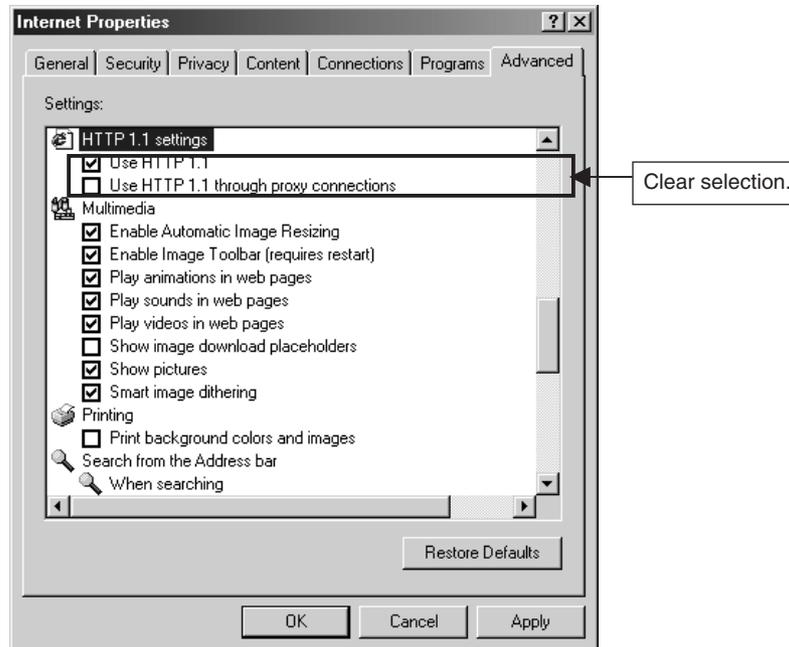
- Close all programs running on Windows.
- Connect to the Internet.

Note Downloading updates may fail or the size of updates may become unknown if a proxy server is used. Make the following settings if using a proxy server.

Example: Using Internet Explorer 5.01 or Higher

1,2,3...

1. Select **Start – Settings – Control Panel** and double-click the Internet Options Icon.
2. Clear the selection of the *Use HTTP1.1 through proxy connections* Option on the Advanced Tab Page.



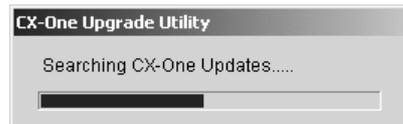
3-2-2 Starting Auto Update

- 1,2,3... 1. Select **Programs – OMRON – CX-One – CX-One Auto Update** from the Windows Start Menu. The CX-One Upgrade Utility Dialog Box may be displayed saying that there are version updates available.

Click the **OK** Button.

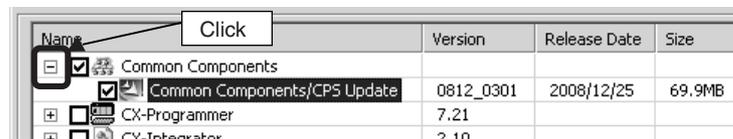


2. The applicable updates will be searched for.



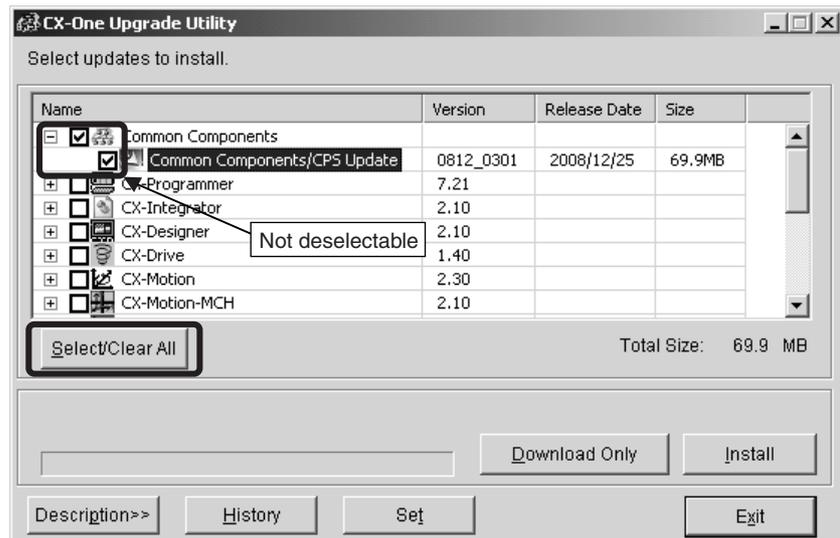
3. The CX-One Upgrade Utility will be started and then a list of installed applications will be displayed.

Click to display applicable updates.



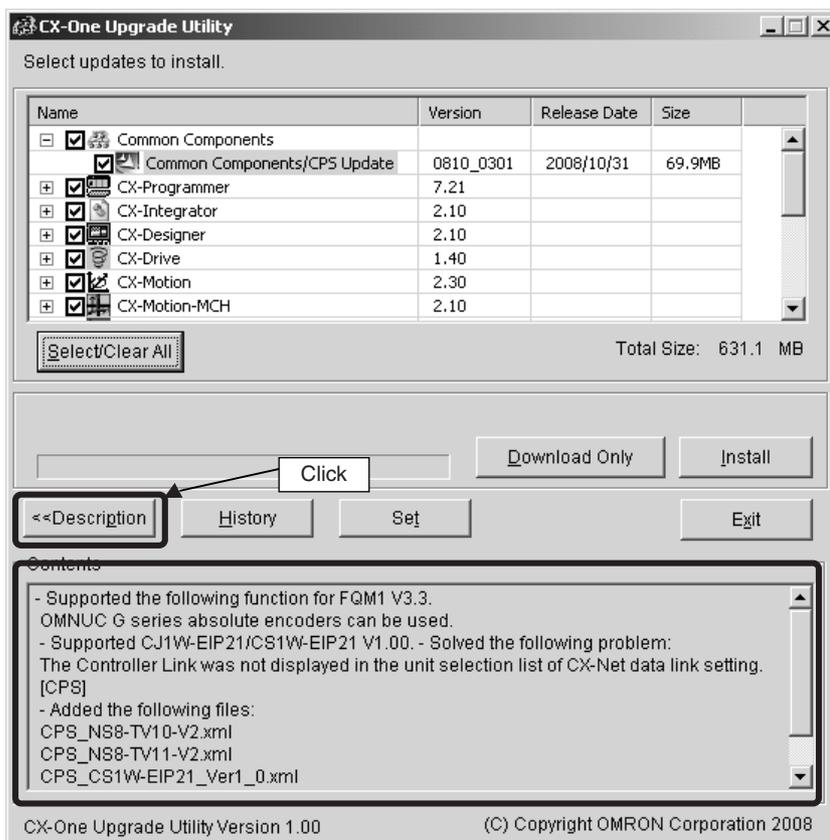
- All check boxes will be selected by default.

To select or clear all check boxes, click the **Select/Clear All** Button. It is not possible to clear the check box for common components.

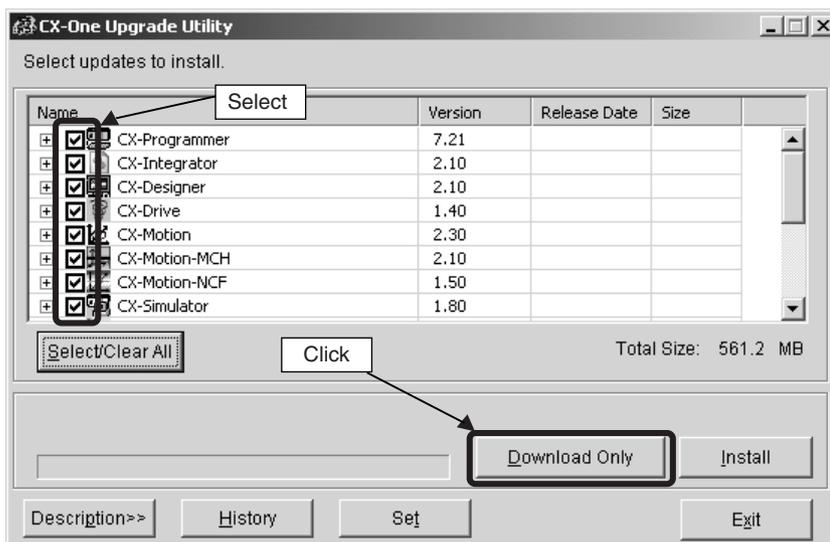


Note It is not possible to clear the check box for common components.

- Select an update and click the **Description>>** Button. A description of the update will be displayed.



- Select the updates to be applied and click the **Install** Button.



Note The updates that will be displayed will depend on the CX-One version and individual applications installed on the personal computer.

- Click the **Download only** Button to save the update files to the computer for later installation. For details, refer to *Downloading Update Files for Later Installation* later in this section.
- A user authentication dialog will be displayed when using the auto update service for the first time.

Enter the information listed below then click the OK Button.
 The user authentication dialog will not be displayed for subsequent auto updates once an update has been installed.

Item	Details
Email address	Enter the email address you registered after purchase.
License No. (16 digits)	Enter the license number of the CX-One that you purchased.
Region	Select the region where the software was purchased. Japan Europe, Africa, Middle East North America, South America China Taiwan Korea South-east Asia, India, the Pacific region



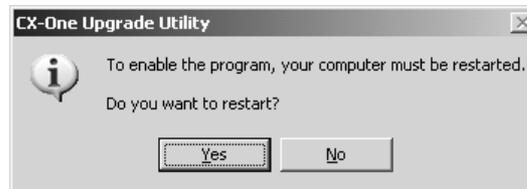
Note If you have not registered, click **click here** to jump to the user registration website.

- Click the **Install** Button to download the selected updates. (If more than one update has been selected, they will be downloaded one-by-one in the order listed.)



When the updates have been downloaded, installation will start automatically.

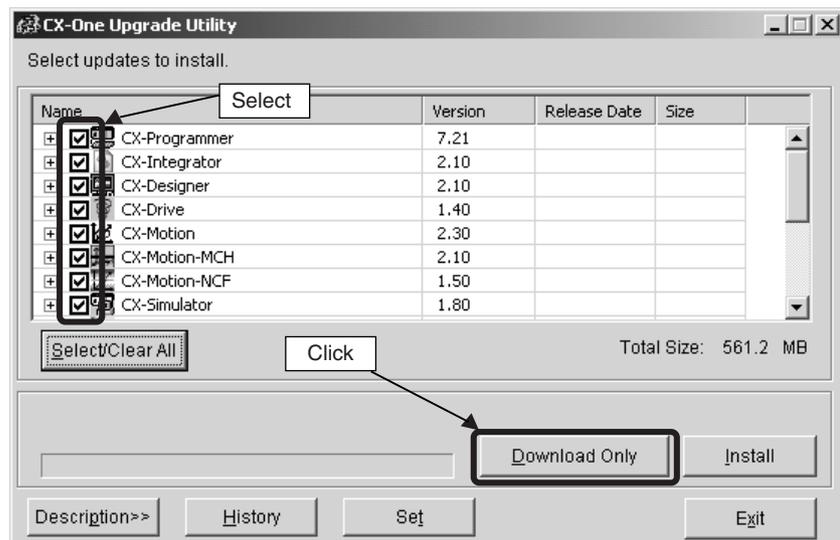
- When all installations have been completed, a message will be displayed asking if you want to restart your computer.
 Click the **Yes** Button to restart the computer now.
 Click the **No** Button to restart the computer later.



Downloading Update Files for Later Installation

One of the update methods is to save the files needed for updating (called "update files") on the personal computer for later installation. The update files can be copied and used to update the CX-One installed on other computers not connected to the network.

- 1,2,3... 1. In the list of possible updates in the CX-One Upgrade Utility Dialog Box, select the updates to be downloaded and click the **Download Only** Button.



Note Multiple updates can be selected and downloaded at the same time.

- The **Browse For Folder** Dialog Box will be displayed. Select the folder in which to save the update files and click the OK Button. Downloading the update files will be started.
- Once the update files have been downloaded, a message saying the download has been completed will be displayed in the CX-One Upgrade Utility Dialog Box.
- Double-click the files downloaded to the computer to begin installation. Follow the directions given by the Installer to install the update files.

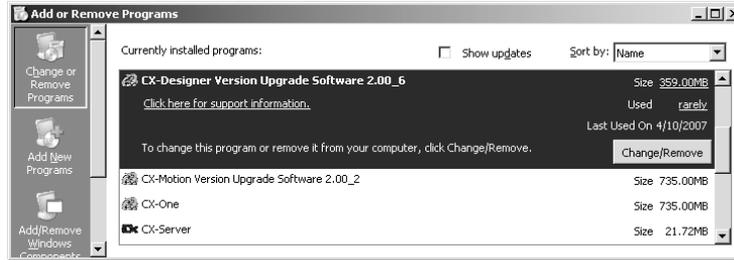
Note If any updates are not installed, they will be displayed again as applicable updates.

The update files can be deleted once they have been installed.

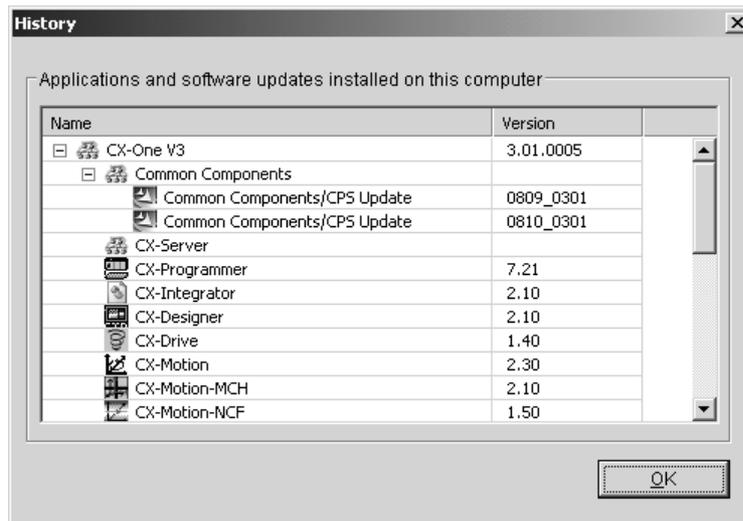
3-2-3 Checking Update Results

The results of the updates can be seen in the Add or Remove Programs Window accessed from the Control Panel. (Select **Settings** – **Control Panel** – **Add or Remove Programs** from the Windows Start Menu to display the Add or Remove Programs Window.) The names of the updates will be displayed in the Add or Remove Programs Window, as shown below.

**Example: CX-Designer
Version Upgrade Software
2.00_6**



Note The update names depend on the application and update version. Click the History Button in the CX-One Upgrade Utility Dialog Box to display a list of updates and applications installed on the computer. Each version number can be checked.



3-2-4 Uninstalling CX-One Updates

Use the following procedure to return the CX-One that has been updated using the auto update function to its status prior to the updates.

- 1,2,3...**
1. Uninstall the following programs.
 - The programs installed by the updates (e.g., CX-Integrator Version Upgrade Software 2.00_3)
 - CX-One and CX-Server
 - The CX-Server driver management software
 2. Uninstall the CX-One.
 3. Reinstall the CX-One after it has been uninstalled.

Note Be sure to delete the programs listed above (CX-One, CX-Server, and the CX-Server driver management software). CX-One will not return to pre-update status if only the programs that were installed with the update are deleted.

3-3 Periodic Notification of Auto Updates

The periodic notification function regularly checks for updates, and detects and provides notification of the latest update releases.

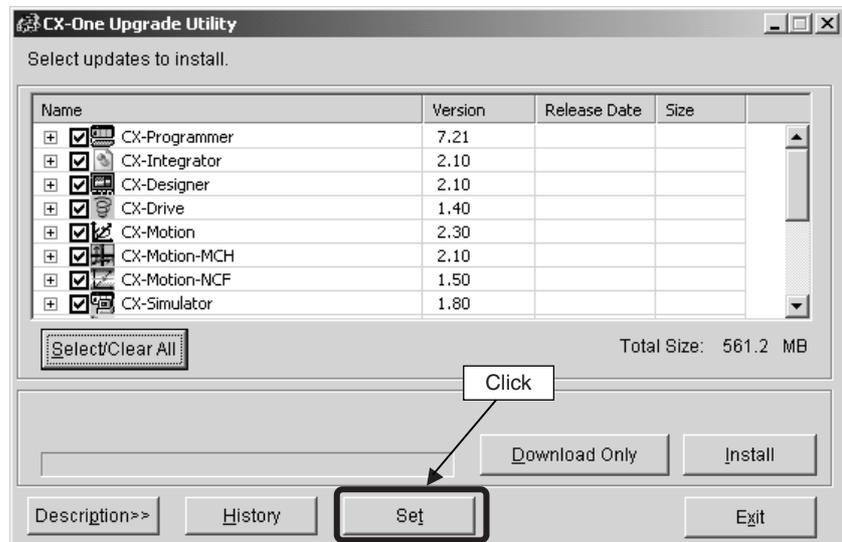
3-3-1 Enabling Periodic Notification of Auto Updates

Periodic notification of auto updates is disabled when the CX-One is installed. Use the following procedure to enable periodic notification of auto updates. Periodic update notification is enabled/disabled and the notification schedule settings are made using this procedure.

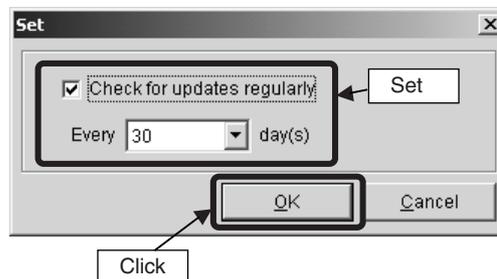
- 1,2,3... 1. To start CX-One Upgrade Utility, select **Program – OMRON – CX-One – CX-One Auto Update** from the Windows Start Menu.



2. Click the **Set** Button.



3. To enable periodic notification of auto updates, select the check boxes and set the notification schedule. (To disable the periodic notification of auto updates, clear the check boxes.)
4. Once the settings have been made, click the **OK** Button.



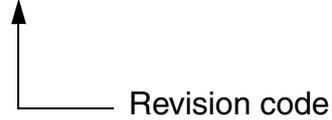
3-3-2 Update Notification

If periodic notification of auto updates is enabled, new updates will be searched for at the first login after the set time has elapsed. The CX-One Upgrade Utility will be started if any applicable update is found. There will be no notification, if no applicable updates are found.

Revision History

A manual revision code appears as a suffix to the catalog number on the front cover of the manual.

Cat. No. W463-E1-05



The following table outlines the changes made to the manual during each revision. Page numbers refer to the previous version.

Revision code	Date	Revised content
01	July 2006	Original production
02	July 2007	Made corrections accompanying upgrade of CX-One
03	August 2007	Cover, inner cover, and pages 3 and 4: Made corrections to CX-One model number suffixes. Page 10: Modified the version from "CX-One Ver. 2.1" to "CX-One Ver 2.1 or later."
04	June 2008	Added upgraded information of CX-One Ver.3.0.
05	February 2009	Added upgraded information of CX-One Ver. 3.1.

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