

Chapter 2

Installing and Starting CA-Visual Objects

In This Chapter

This chapter discusses requirements and procedures for installing and starting CA-Visual Objects.

System Requirements



The minimum and recommended system requirements needed to install and run CA-Visual Objects are as follows:

Component	Minimum	Recommended
DOS	Version 5.0	Version 6.2
Windows	Version 3.1	Version 3.1 or higher
Hard disk space	45 MB	55 MB
RAM	8 MB	16 MB

Note: The minimum hard disk space is the amount required for the full installation of CA-Visual Objects—partial installations will require less space. The actual amount of disk space required will be indicated by the CA-Installer when you install the product. The recommended hard disk space takes into account the fact that you will need additional disk space in order to develop your own applications.

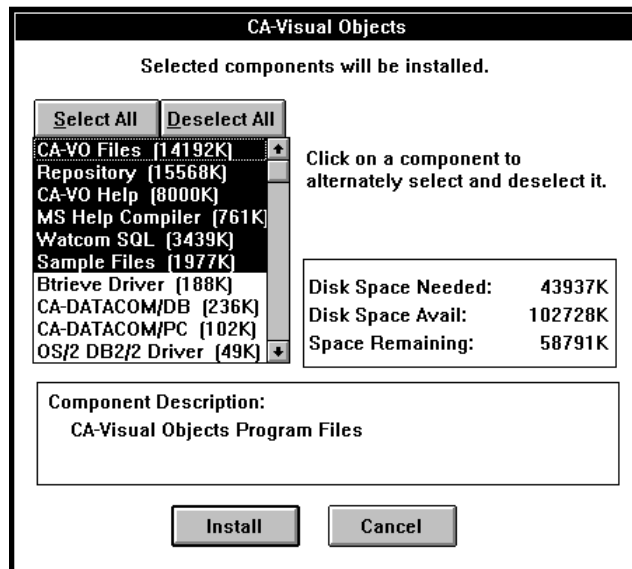
Installing CA-Visual Objects



To install CA-Visual Objects on your hard drive:

1. Insert the Installation diskette in drive A (or B).
2. From the Windows Program Manager, select the File Run command.
3. Type **A:\INSTALL** (or **B:\INSTALL**).

This invokes the CA-Installer:



From here, you have two options. You can either install all of the components that are part of the CA-Visual Objects package (i.e., the full installation) or select only those components you know you are going to need (i.e., a partial installation).

Full Installation

For the full installation, click on the Select All button and then choose Install. The CA-Installer will begin the installation procedure, prompting you for any information necessary. Simply follow the on-screen prompts to proceed with the installation; CA-Visual Objects will be installed in the drive and directory you specify.

Partial Installation

If you choose to selectively install CA-Visual Objects, you should first click on the Deselect All button and then proceed to click on only those components that you wish to install, or you can leave everything selected and click on only those components that you do not wish to include. Either way, before you choose Install, the components that you want to install will be highlighted in the list box.

The various components are described below to help you decide what you need to install. Note that if you choose not to install a particular component at this time and later find that you need it, you can always run the CA-Installer again and select only that component, without affecting the rest of your current installation.

Minimum Installation	The minimum installation must include CA-VO Files and Repository. This will install all the system-defined libraries as well as other components that are common to all applications. For example, the Microsoft ODBC Administrator and its help file are installed as part of the CA-VO Files option.
CA-VO Help	This option installs the online help file(s) associated with CA-Visual Objects. If you plan to use context-sensitive help, you must choose this option.
Sample Files	This option installs the sample files that are used in the various hands-on lessons in the printed documentation. For example, the “Learning the Basics” tutorial in this guide assumes you have installed the sample files. Choose Sample Files if you plan to follow through the documentation examples.
MS Help Compiler	This option installs the Microsoft Help Compiler and Hotspot Editor, as well as the online help file associated with these components. If

you are providing online help with your application, you will need these components to build the actual .HLP files. You can refer to CREAHELP.HLP and SHED.HLP for further information on how to use these components.

ODBC Drivers

The remaining options install the various ODBC drivers included with the CA-Visual Objects package. They can, of course, be installed selectively. You will need to install a driver only if you intend to develop applications designed to access ODBC data sources defined by the driver. Any one of these options installs the necessary driver, along with any additional files needed. The ODBC.INI and ODBCINST.INI files are also updated to give you access to the driver from the ODBC Administrator.

Note: As part of the CA-VO Files option, an online help file (CATOODBC.HLP) is installed that provides documentation for each of the supplied drivers. You can refer to this file for further information on any of these components.

Watcom db

This option installs the ODBC driver for WATCOM SQL as described above, but also installs the WATCOM SQL engine and its associated online help file (CATOWAT.HLP). You will want to refer to this help file for further information. WATCOM SQL includes a sample database named SAMPLE.DB that is used in the “Learning the Basics” tutorial in this guide. Thus, even if you are not interested in using this driver for your applications, you need to install this component to follow through the tutorial.

Important! *SAMPLE.DB may be write-protected, depending on what operations you have performed. If you choose the Watcom db installation option and have a copy of this file already installed (for example, from a previous installation), you may run into problems during installation. If your intention is to overwrite the existing file, change its attribute to read-write (using the DOS command ATTRIB -r SAMPLE.DB or unchecking the Read Only check box using the File Properties menu command in the Windows File Manager).*

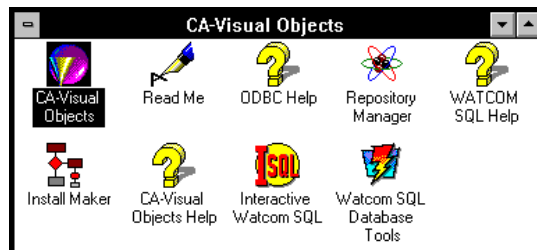
Note: WATCOM SQL is the only ODBC engine supplied with CA-Visual Objects. To use the other ODBC drivers, you (and your users) will need to obtain and install the appropriate engine.

Moving On

Once you have selected all of the components you wish to install, simply click on the Install button. The CA-Installer will begin the installation procedure, prompting you for any information necessary. Simply follow the on-screen prompts to proceed with the installation; CA-Visual Objects will be installed in the drive and directory you specify.

The CA-Visual Objects Program Group

When the installation is complete, you will be returned to the Windows Program Manager where you will see a program group called “CA-Visual Objects” that looks similar to the following:



Note: The contents of this program group will differ depending on which components you chose to install. This example represents the full installation. The Microsoft ODBC Administrator is installed in your Windows Control Panel rather than in the CA-Visual Objects program group.

The Read Me File

After the installation procedure is complete, you will want to view the Read Me file before doing anything else. It contains important, last-minute information that is not included in the printed documentation. Simply double-click on the Read Me icon to view the contents of this file.

Before Starting CA-Visual Objects

You may need to adjust certain settings before starting CA-Visual Objects, depending on your individual requirements. For example, if you did not allow the CA-Installer to add the CA-Visual Objects directory to your AUTOEXEC.BAT PATH setting, you will need to make this change manually.

Swap File Size

Depending on the amount of RAM in your system, you may want to increase the swap file size. We recommend using a swap file size at least as big as the amount of RAM you have, and slightly more if possible. For example, if you have 8 MB RAM, you might want to consider a swap file size between 8 and 10 MB.

Of course, this depends on the amount of free disk space you have to spare and what other applications you are running. As always, system-specific requirements can only be recommended, not dictated. Refer to your Microsoft Windows documentation for more information on setting the swap file size and on managing memory and performance, in general.

FILES and BUFFERS

The recommended settings for FILES and BUFFERS in CONFIG.SYS are as follows:

```
FILES=100  
BUFFERS=16,0
```

Loading SHARE.EXE

If you are using Windows version 3.10, it is necessary to load the DOS SHARE.EXE program to install file sharing and locking capabilities on your system. To do this, include a line similar to the following in your CONFIG.SYS file:

```
INSTALL=C:\DOS\SHARE.EXE /F:4096 /L:500
```

The values you specify for the /F and /L options will depend on your system (see your DOS manual for details).

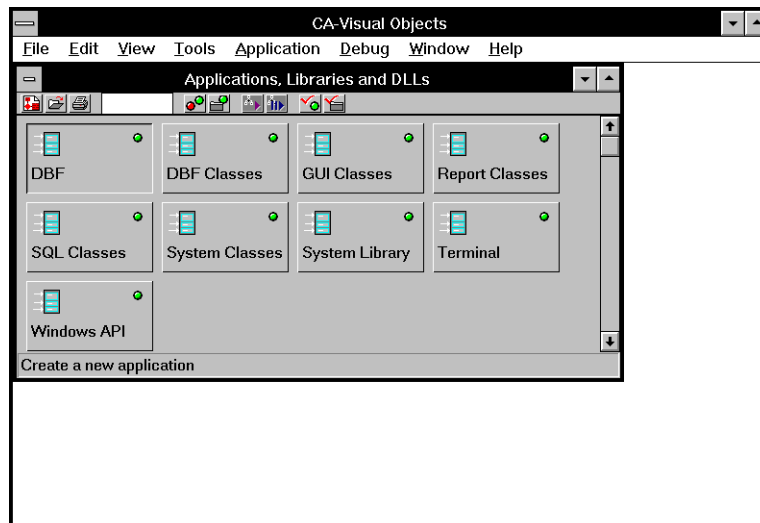
Note: If you are using Windows version 3.11 or greater, SHARE.EXE is installed automatically.

After making changes to AUTOEXEC.BAT or CONFIG.SYS, you must restart your computer for the changes to take effect. This is true regardless of whether the changes were made by the CA-Installer or by you. Therefore, as a final step before starting CA-Visual Objects, quit Windows and restart your computer (after making any of the recommended changes in this section).

Starting CA-Visual Objects

Once you have restarted Windows, you can start CA-Visual Objects by double-clicking on the CA-Visual Objects icon that appears in the program group which was created when you installed CA-Visual Objects.

CA-Visual Objects is loaded and appears in its own application window. This main window is sometimes referred to as the *desktop*:



The desktop is the primary workspace in CA-Visual Objects. Initially, it displays the *Application Browser*, which contains all the applications, libraries, and DLLs currently stored in the repository.

What's Next

Now that you have installed CA-Visual Objects and learned how to start it, the next chapter introduces you to some of the basic tenets of object-oriented programming, which is the very heart of the CA-Visual Objects architecture.