



**FILEMAN DELPHI COMPONENTS  
(FMDC)  
INSTALLATION GUIDE**

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# Introduction

This Installation Guide provides instructions for installing the FileMan Delphi Components (FMDC) V. 1.0.

The FileMan Delphi Components make it easy for developers to work with VA FileMan data in Delphi applications. The components encapsulate the details of retrieving, validating and updating VA FileMan data within a Delphi application. This saves you from creating your own custom remote procedure calls (RPCs) when you need to access VA FileMan data.

The FileMan Delphi Components also include special enhanced features such as complete server-side error checking and data dictionary help.

If you're already familiar with Delphi, the time needed to develop an application to edit a set of VA FileMan fields using the FileMan Delphi Components is comparable to the time needed to create the same application using VA FileMan's roll-and-scroll ScreenMan interface.

## Documentation Conventions

A set of symbols is used throughout the documentation to alert the reader of special information. The following table describes the symbols used:

Symbol	Description
	Informs the reader of general information including references to additional reading material.
	Cautions the reader to take special notice of critical information.
	Informs the reader of specific instructions for virgin installations only.

## Related Manuals

- *FileMan Delphi Components V. 1.0 Installation Guide*  
Provides instructions for installing the FileMan Delphi Components.
- *FileMan Delphi Components V. 1.0 Getting Started Guide*  
Gets you started with using the FileMan Delphi Components.
- *FMDC.HLP Help File*  
Provides complete information on the FileMan Delphi Components, including full listings of each component's methods and properties.
- *VA FileMan Programmer Manual*  
Provides complete information on the VA FileMan Database Server (DBS) API, the basis of the FMDC data access components. See <http://www.vista.med.va.gov/softserv/infrastr.uct/fileman>.

## **FMDC Web Site**

The FileMan Delphi Components web site provides up-to-date information including FAQs, troubleshooting tips, and any code or documentation updates. Check the web site:

- Before installing the FileMan Delphi Components.
- Periodically as you use the components, to keep in touch with the latest updates.

The web site is located at: <http://www.vista.med.va.gov/softserv/infrastr.uct/fmdc>

# Preliminary Considerations

## About the Installation Procedures

Three different developer workstation installation procedures provided in this guide:

- Delphi V. 4
- Delphi V. 3
- Delphi V. 2

Unlike with the RPC Broker package, there is no "end-user" (as opposed to developer) client workstation installation for the FileMan Delphi Components. All client-side functionality for the FileMan Delphi Components is compiled into the client application by the application developer.

## Developer Workstation Requirements

The following minimum hardware and software tools are required on your client workstation in order to install and use the FileMan Delphi Components:

- **80x86-based client workstation**
- **Microsoft Windows 95 or 98, or Windows NT Workstation V. 3.51 or greater**
- **Inprise Delphi**

FMDC V. 1.0 patch 1 supports Delphi V. 4 and V. 3, but *not* Delphi V.2. If you need Delphi V. 2 support, use the original *unpatched* V. 1.0 of FMDC, combined with the original *unpatched* version 1.1 release of the RPC Broker BDK.

- **RPC Broker Development Kit (BDK)**

The FileMan Delphi Components require that the RPC Broker BDK be installed in Delphi prior to installing the FileMan Delphi Components. The V. 1.0 FileMan Delphi Components are compatible with any RPC Broker V. 1.1 BDK, regardless of the patch level of the BDK.

## Server Requirements

- **RPC Broker V. 1.1 or Greater Installed**

When you create an application with the FileMan Delphi Components, the server(s) your application connects to need to have the RPC Broker V. 1.1 or greater installed.

- **Patch DI\*21\*34 (or VA FileMan V. 22) Installed**

When you create an application with the FileMan Delphi Components, the server(s) your application connects to need to have the FileMan Delphi Components Remote Procedure Calls (RPCs) and supporting M routines installed. These RPCs and routines are distributed in VA FileMan V. 22, and also as patch DI\*21\*34, for VA FileMan V. 21.

- **Patch DI\*21\*41 (or VA FileMan V. 22) Installed**

VA FileMan V. 21 patch DI\*21\*41 (included as part of VA FileMan V. 22) includes an update to a DBS call to make it compatible with the FileMan Delphi Components.

## Skills Needed for Installation

To install the FileMan Delphi Components on a developer workstation, you will need to know how to do the following in the Microsoft Windows environment:

- Run an automated SETUP.EXE installation program
- Use Windows Explorer (or Windows NT Explorer)
- Create directories
- Copy, move and delete files
- Edit text files
- Use Delphi menu options

# Delphi V. 4 Instructions

## 1. Confirm Distribution Files

You need the following files to install the FileMan Delphi Components for Delphi V. 4:

File Name	Description
FMDC1_0P1IG.PDF (binary file) <i>or latest version, e.g. FMDC1_0PxIG.PDF</i>	<b>Installation Guide.</b>
FMDC1_0P1.EXE (binary file) <i>or latest version, e.g. FMDC1_0Px.EXE</i>	<b>Developer client workstation</b> self-installing executable. Installs the FileMan Delphi Components.

## 2. Run the Installation Program — Unpack Files (*required*)

To start the developer client workstation installation setup program, run FMDC1\_0P1.EXE (*or the latest version, e.g., FMDC1\_0Px.EXE*). Follow the procedures on how to run a program as described in your operating system's Systems Manual. For example, in Windows 95:

- A. Go to the Start menu.
- B. Select the Run option.
- C. Click Browse to locate FMDC1\_0P1.EXE (*or the latest version, e.g., FMDC1\_0Px.EXE*).
- D. Click OK to run FMDC1\_0P1.EXE (*or the latest version, e.g., FMDC1\_0Px.EXE*).

During the installation, various dialog boxes are presented to you. Follow the online instructions. The directory location you choose to install the FMDC files in will be referred to in these instructions as the "FMDC files directory".

This version of FMDC runs under both Delphi V. 3 and 4. During the installation you are given the opportunity to include the necessary files for development under either or both of these environments.



*By default, Delphi V. 4 is pre-selected.*

## 3. De-Install Any Previous FMDC Installed for Delphi V. 4 (*required*)

★ *If this is a virgin installation proceed directly to Step 4.*

- A. Start Delphi V. 4 and close any open projects.
- B. From the Delphi menu, select *Component / Install Packages*.

- C. Remove any previous version of FMDC from the Design Packages listing. To do this:
  - i. See if the following entry is in the list of installed design packages:
    - VISTA FileMan Delphi Components
  - ii. If this entry is present, select (highlight) it, and click Remove.
  - iii. Delphi presents one of two confirmation windows. Delphi may present a confirmation window saying:

```
Remove 'c:\program files\vista\fmDC\d4\fmDC.bpl' from the design package list?
```

If Delphi presents this confirmation window, answer Yes.  
Otherwise Delphi may present a confirmation window saying:

```
Package(s) xxx will also be uninstalled because they require package VISTA FileMan Delphi Components. Continue Uninstall?
```

If this is OK, click Yes. Any packages dependent on the FileMan Delphi Components will also be uninstalled. If you click No, you will not be able to de-install the previous FMDC software.
  - iv. If you chose to remove any packages, Delphi may also present a Remove Runtime Packages window, saying:

```
The package names in the following list are not used by any installed packages. Remove the selected names from the runtime packages list?
```

If Delphi presents this window, click Yes.
  - v. Click OK in the "**Project Options**" dialog box to finish.

#### 4. Install/Update FMDC in Delphi (*required*)

- A. Start Delphi V. 4 and close any open projects.
- B. From the Delphi menu, select *Component / Install Packages*. This opens a window titled Project Options.
- C. Click Add. This opens a window titled Add Design Packages.
- D. In the Add Design Packages window, navigate to the directory in which you installed the new FMDC files for Delphi 4 in step 2 above (e.g., C:\PROGRAM FILES\VISTA\FMDC\D4).
- E. Select **FMDC.BPL** and click Open. Delphi returns you to the Project Options window. "**VISTA FileMan Delphi Components**" should now be listed as a checked item in the list of Design Packages.
- F. Click OK to close the Project Options window. Delphi automatically rebuilds the Delphi Component Palette creating/updating a FileMan page tab with the FileMan Delphi components:



- G. Confirm that Delphi V. 4's Library Path only references the current FMDC.BPL. The Library Path specifies search paths where the compiler can find the source files for the package. If you try to build an application with a file not on the library path, you will receive a compiler error. Conversely, if versions of a package (such as FMDC.BPL) are available in multiple directory locations on the library path, you may end up compiling your application with obsolete components.
- i. In Delphi's menu, select *Tools / Environment Options*.
  - ii. Under the Library tab, examine the Library Path. To see the complete library path, scroll right in the edit box or click the "... " button. Only one directory on the search path should contain FMDC.BPL. If more than one directory on the library path contains FMDC.BPL, remove all from the library path *except* for the location of FMDC.BPL that you just installed.

## 5. Download/Install Updated Delphi V.4 Help System (*recommended*)

There is an update from Inprise to the Delphi V. 4 help system, for the originally released version of Delphi V. 4. This update enables Delphi V. 4's new "OpenHelp" system which makes 3rd party help (like FMDC's help!) easier to integrate.

To install this update:

- A. Exit Delphi, if it is open.
- B. Go to Inprise's Delphi Documentation update web page, and download the "DELPHI4.HLP" update. At the time of writing, this page is located at:

<http://www.inprise.com/techpubs/delphi/updated.html>

At the time of writing, the name of the file to download is del4hlp.zip.

- C. Unzip DEL4HLP.ZIP, placing the four resulting files (DELPHI4.CNT, DELPHI4.OHC, DELPHI4.OHI, DELPHI4.HLP) into the following directory (overwriting the existing versions of these four Delphi4 help files):

... \DELPHI4\HELP

## 6. Install the FMDC Help with Delphi V.4's Help (*recommended*)

★ *If you aren't installing the OpenHelp update from Inprise for Delphi V. 4 (see step 5 above), and your version of Delphi doesn't come with this update, don't continue with this step. Instead, you will need to follow the instructions in the Delphi V. 3 section ("Install the FMDC Help with Delphi V. 3's Help") to install the FMDC help files in Delphi.*

This version of the FileMan Delphi Components provides context-sensitive help. By merging the FMDC help with Delphi's help, you are able to get context-sensitive help on each of the FileMan Delphi Components and their properties while working in Delphi. Once merged, simply select any FileMan Delphi component or property in Delphi, and press the F1 key for help.

To integrate FMDC's context-sensitive help with Delphi's context-sensitive help, perform the following steps:

- A. Copy the FMDC.CNT and FMDC.HLP files from the FMDC files directory for Delphi 4 (e.g., C:\PROGRAM FILES\VISTA\FMDC\D4) into the ...\\Delphi4\HELP directory.
- B. Start Delphi.
- C. On the Delphi Help menu, choose *Customize*. This runs the OpenHelp program.
- D. Select OpenHelp's *Contents* tab, and add FMDC.CNT:
  - i. Select *Edit / Add Files* (or click the icon with a +).
  - ii. Navigate to the \DELPHI4\HELP folder.
  - iii. Change the "files of type" file filter to .CNT.
  - iv. Choose FMDC.CNT (Select the file name and press Open.)
- E. Select OpenHelp's *Index* tab, and add FMDC.HLP:
  - i. Select *Edit / Add Files* (or click the icon with a +).
  - ii. Choose FMDC.HLP (Select the file name and press Open.)
- F. Select OpenHelp's *Links* tab, and add FMDC.HLP:
  - i. Select *Edit / Add Files* (or click the icon with a +).
  - ii. Choose FMDC.HLP (Select the file name and press Open.)
- G. Select *File / Save Project* in OpenHelp. This updates the help system, incorporating FMDC.HLP.
- H. Close OpenHelp.
- I. On a blank form, add a FileMan Delphi component. Select it on your form and press F1 for help. If the help for the component comes up, you are all set.
- J. If you newly installed the Delphi V. 4 help update (step 5), you may need to add in 3rd party help for any other 3rd party components you had previously installed in Delphi V. 4.

**\*\*\* You have now completed installing the FileMan Delphi Components in Delphi V. 4 \*\*\***

# Delphi V. 3 Instructions

## 1. Confirm Distribution Files

You need the following files to install the FileMan Delphi Components for Delphi V. 3:

File Name	Description
FMDC1_0P1IG.PDF (binary file) <i>or latest version, e.g. FMDC1_0PxIG.PDF</i>	<b>Installation Guide.</b>
FMDC1_0P1.EXE (binary file) <i>or latest version, e.g. FMDC1_0Px.EXE</i>	<b>Developer client workstation</b> self-installing executable. Installs the FileMan Delphi Components.

## 2. Run the Installation Program — Unpack Files (*required*)

To start the developer client workstation installation setup program, run FMDC1\_0P1.EXE (*or the latest version, e.g., FMDC1\_0Px.EXE*). Follow the procedures on how to run a program as described in your operating system's Systems Manual. For example, in Windows 95:

- A. Go to the Start menu.
- B. Select the Run option.
- C. Click Browse to locate FMDC1\_0P1.EXE (*or the latest version, e.g., FMDC1\_0Px.EXE*).
- D. Click OK to run FMDC1\_0P1.EXE (*or the latest version, e.g., FMDC1\_0Px.EXE*).

During the installation various dialog boxes will be presented to you, follow the online instructions. We recommend you accept the default settings for the location of the FMDC files.

This version of FMDC runs under both Delphi V. 3 and 4. During the installation you are given the opportunity to include the necessary files for development under either or both of these environments. For Delphi V. 3 support only, deselect the D4 box and select the D3 box.



*By default, Delphi V. 4 is pre-selected.*

## 3. De-Install Any Previous FMDC Installed for Delphi V. 3 (required)

★ *If this is a virgin installation proceed directly to Step 4.*

- A. Start Delphi V. 3 and close any open projects.
- B. From the Delphi menu, select *Component / Install Packages*.

- C. Remove the previous version of the following FMDC file from the Design Packages list:

**FileMan Delphi Components (FMDC.DPL)**

To remove this file, perform the following steps in sequence:

- i. In the "**Project Options**" dialog box, verify that the file to be removed is listed in the Design Packages (i.e., FMDC.DPL).
- ii. Click Remove. Choose Yes in the confirmation dialog box.
- iii. Click OK in the "**Project Options**" dialog box to remove the specific package.

#### 4. Install/Update FMDC in Delphi (*required*)

- A. Start Delphi V. 3 and close any open projects.
- B. From the Delphi menu, select *Component / Install Packages*. This opens a window titled Project Options.
- C. Click Add. This opens a window titled Add Design Packages.
- D. In the Add Design Packages windows, navigate to the directory in which you installed the new FMDC files directory for Delphi 3 in step 2 above (e.g., c:\Program Files\VISTA\FMDC\D3).
- E. Select **FMDC.DPL** and click Open. Delphi returns you to the Project Options window. "**VISTA FileMan Delphi Components**" should now be listed as a checked item in the list of Design Packages.
- F. Click OK to close the Project Options window. Delphi automatically rebuilds the Delphi Component Palette creating/updating a FileMan page tab with the FMDC components as well as any previously installed components:



#### 5. Install the FMDC Help with Delphi V. 3's Help (*recommended*)

This version of the FileMan Delphi Components provides context-sensitive help. By merging the FMDC help with Delphi's help, you are able to get context-sensitive help on each of the FileMan Delphi Components and their properties while working in Delphi. Once merged, simply select any FileMan Delphi component or property in Delphi, and press the F1 key for help.

To integrate FMDC's context-sensitive help with Delphi's context-sensitive help, perform the following steps:

- A. Exit Delphi, if it is running on your machine.
- B. Copy the FMDC.CNT and FMDC.HLP files from the FMDC files directory (e.g., C:\Program Files\VISTA\FMDC\D3) into the ...\\Delphi 3\\HELP directory.
- C. Using a text editor (e.g., Windows Notepad), open the DELPHI3.CFG file in the ...\\Delphi 3\\HELP directory. In the "Third-Party Help" section of DELPHI3.CFG, add the following statements:

```
:LINK FMDC.HLP
```

Save DELPHI3.CFG.

- D. Delete the hidden file DELPHI3.GID in the ...\\Delphi 3\\HELP directory. Two ways to do this are:
  - From Windows Explorer: If you have the option turned on to view hidden files, you can select this file and then delete it.
  - From the command line: Use DOS's ATTRIB command to change the file attribute to not hidden, then delete the following files:

```
C:\Program Files\Borland\Delphi 3\HELP>attrib -h delphi3.gid <RET>
```

```
C:\Program Files\Borland\Delphi 3\HELP>del delphi3.gid <RET>
```

- E. To access FMDC.HLP's table of contents or index, do the following:
  - i. Close any open help files.
  - ii. Using a text editor, open the DELPHI3.CNT file in the ...\\DELPHI 3\\HELP directory.
  - iii. In DELPHI3.CNT's Index section (top of the file), add the following line:
 

```
:Index FileMan Delphi Components =fmdc.hlp
```
  - iv. In DELPHI3.CNT's Include section (bottom of the file), add the following line:
 

```
:Include fmdc.cnt
```
  - v. Save your changes to DELPHI3.CNT and close the file.
- F. Start Delphi. On a blank form, add a FileMan Delphi component from the component palette to your form. Select it on your form and press F1 for help. If the help for the component comes up, you are all set.

**\*\*\* You have now completed installing the FileMan Delphi Components in Delphi V. 3 \*\*\***



# Delphi V. 2 Instructions



Please note that version 1.0 patch 1 of the FileMan Delphi Components supports Delphi V. 4 and V. 3, but *not* Delphi V.2. For Delphi V. 2 support, use the original *unpatched* V. 1.0 release of FMDC, distributed in FMDC1\_0.EXE.

## 1. Confirm Distribution Files

You need the following files to install the FileMan Delphi Components for Delphi V. 2:

File Name	Description
FMDC1_0IG.PDF (binary file) <i>or latest version, e.g. FMDC1_0PxIG.PDF</i>	<b>Installation Guide.</b>
FMDC1_0.EXE (binary file)	<b>Original unpatched version</b> of the <b>Developer client workstation</b> self-installing executable. Installs the FileMan Delphi Components.

## 2. Run the Installation Program — Unpack Files (*required*)

To start the developer client workstation installation setup program, run the *original, unpatched* FMDC1\_0.EXE. Follow the procedures on how to run a program as described in your operating system's Systems Manual. For example, in Windows 95:

- A. Go to the Start menu.
- B. Select the Run option.
- C. Click Browse to locate FMDC1\_0.EXE.
- D. Click OK to run FMDC1\_0.EXE.

This version of FMDC runs under both Delphi V. 2 and 3. During the installation you are given the opportunity to include the necessary files for development under either or both of these environments. For Delphi V. 2, deselect the D3 box and check the D2 box.



*By default, Delphi V. 3 is pre-selected.*

### 3. De-Install Any Previous FMDC Installed for Delphi V. 2 (*required*)

★ *If this is a virgin installation proceed directly to Step 4.*

- A. Start Delphi V. 2 and close any open projects.
- B. From the Delphi menu, select *Component / Install*.
- C. Remove any of the previous versions of the following FMDC files from the Installed Units, if they are present:
  - Fmcmpnts
  - Fmcntrl
  - Fmlookup

Remove them by performing the following steps in sequence for *each* file:

- i. In the "**Install...**" dialog box, verify the specific directory is listed in the Search path directory (e.g., ...\\FMDC\\D2) and the file(s) to be removed are listed in the installed units (i.e., Fmcmpnts.dcu, Fmcntrl.dcu, or Fmlookup.dcu).
- ii. Choose a file and click Remove.

When all of the files are removed, click OK in the "**Install...**" dialog box.

- D. Update the Search path and remove any old FMDC directories.

### 4. Install/Update FMDC in Delphi (*required*)

- A. Start Delphi V.2 and close any open projects.
- B. Select the following option from the Delphi menu: *Component / Install*.
- C. Add the following FMDC files to the Installed Units:

**Fmcmpnts.dcu**  
**Fmcntrl.dcu**  
**Fmlookup.dcu**

To add these files, perform the following steps in sequence for *each* file:

- i. In the "**Install...**" dialog box, verify the specific directory is listed in the Search path directory (e.g., ...\\FMDC\\D2) and click Add.



*You should also update the Search path and remove any old FMDC directories.*

- ii. In the "**Add Module**" dialog box, click Browse and navigate to the 32-bit Delphi V. 2 FMDC directory (e.g., ...\\FMDC\\D2) and set the "Files of type" to DCU.

- iii. Select the desired file to be added (i.e., **Fmcmpnts.dcu**, **Fmcentrls.dcu** or **Fmlookup.dcu**).
  - iv. Click Open in the "Add Module" dialog box.
- D. When you have added *all three* .DCU files, click OK in the "**I**nstall..." dialog box.



*Answer "No" to any Delphi prompts to save the project. (Since you aren't actually creating a project at this time, no data will be lost.)*

Delphi automatically rebuilds the Delphi Component Palette creating/updating a FileMan page tab with the FMDC components as well as any previously installed components:



## 5. Install the FMDC Help with Delphi's Help (*recommended*)

This version of the FileMan Delphi Components provides context-sensitive help. By merging the FMDC help with Delphi's help, you are able to get context-sensitive help on each of the FileMan Delphi Components and their properties while working in Delphi. Once merged, simply select any FileMan Delphi component or property in Delphi, and press the F1 key for help.

To integrate FMDC's context-sensitive help with Delphi's context-sensitive help, perform the following steps:

- A. Exit Delphi, if it is running on your machine.
- B. Copy FMDC.CNT and FMDC.HLP from the FMDC files directory (e.g., C:\Program Files\VISTA\FMDC\D2 directory) into the ...\Delphi 2.0\HELP directory.
- C. Run Delphi's HELPINST.EXE program from the ...\Delphi 2.0\HELP\TOOLS folder.
- D. From the HELPINST's File menu, choose Open. Select the \BIN subdirectory below the main DELPHI directory. Open the file DELPHI.HDX.
- E. Ordinarily, several keyword files should be listed when you open DELPHI.HDX, including the following:

DELPHI.KWF  
CWG.KWF



*Do not be concerned if HELPINST reports the files as "\* Not Found \*".*

Delete any previous or earlier versions of the FMDC help keyword files (e.g., FMDC.KWF):

1. Click the file once to highlight it.
2. Click on the HELPINST's red "-" button to delete it.
3. Answer "Yes" in the Confirm dialog box.

Repeat these steps for any previously loaded FMDC keyword files that should be deleted. This process removes the old files from the Delphi list in DELPHI.HDX.

F. To add in or replace the FMDC help, do the following:

1. Click on the HELPINST's green "+" button.
2. Select FMDC.KWF (located in the ...\\HELP directory).
3. Click OK.

This process adds the latest version of the FMDC keyword file into HELPINST's list of .KWF files.

G. To save the changes made to the DELPHI.HDX file, choose Save from the HELPINST's file menu. This completes the merging of this help file into Delphi's help.

H. Exit the HELPINST application.

I. Start Delphi. On a blank form, add a FileMan Delphi component from the component palette to your form. Select the component on your form and press the F1 key for help. If the help for the component comes up, you are all set. However, you may get the following message:

"Cannot find the FMDC.HLP file. Do you want to try to find this file yourself?"

If you get this message, click YES. Navigate to the \\HELP subdirectory of the main Delphi directory, choose FMDC.HLP and click Open. Windows opens the help file, and the path to the help file should be remembered in the future.



*You can find related information about merging help into Delphi's help in Delphi's Component Writer's Guide manual (Delphi Version 2: pp. 77-81).*

**\*\*\* You have now completed installing the FileMan Delphi Components in Delphi V. 2 \*\*\***