



IBM  
Developer  
Connection




# User's Guide

Release 2  
Volume 3

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# IBM Developer Connection

## Edition Notice

### Release 2, Volume 3

### July 1999 Issue

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## About the IBM Developer Connection Program and CDs

Welcome to the IBM Developer Connection Release 2! This document helps you use the interface from the CDs that come in this package, or from the World Wide Web. Please review this information thoroughly.

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**Note to U.S. Government Users: Documentation related to restricted rights (i.e., use, duplication or disclosure) is subject to restrictions set**

You must read the licensing terms and conditions before installing any of the products on the CDs or from our Web site at [www.developer.ibm.com/devcon/](http://www.developer.ibm.com/devcon/). For your convenience, the IBM Developer Connection license agreement may be viewed through the interface. A copy also is provided as a separate document and packaged with the first CDs issued for a new volume of the program. The license agreement available through the interface is the most current version and supersedes all previous versions of the license agreement. **Note:** You also should read the License Agreement for an individual product carefully and fully before using the product, if one is provided, as the license can vary for individual products.

Information about potential problems with the Developer Connection CDs and user interfaces is available from our Web site through the support page at: [www.developer.ibm.com/devcon/services.htm](http://www.developer.ibm.com/devcon/services.htm). Information about potential problems with a specific product, is available in the product description files displayed from the user interface and individual product `readme` files.

To view the catalog for the IBM Developer Connection Release 2, a Web browser is required; a Java-enabled browser is suggested. The interface operates on most workstations using operating systems including AIX, OS/2, Windows 95, Windows NT and various implementations of UNIX.

The CDs provide cross-platform support using RockRidge extensions for files with long file names and mixed case names.

- If your system cannot read CDs with RockRidge extensions, consider mounting the CD on a LAN or using another system that supports RockRidge extensions, then accessing the CD across the LAN or via NFS mount.
- OS/2 users who cannot read the CDs can apply the CD-ROM File System Driver. This provides support for mixed case and long file names on CDs. You can install this fix using the CDFS.EXE self-exploding zip file located in the root of Member Level Disk 1.
- Refer to the README.1ST file in the CDFS package for installation instructions. This fix is needed for:
  - OS/2 Warp 3 systems prior to FixPak XR\_W029
  - OS/2 Warp 4 systems prior to FixPak XR\_M002

Please note that most of the products available from the Developer Connection require that the operating system support long file names.

Some of the content of the IBM Developer Connection is considered pre-release. While we have tried to make sure they all install properly, we acknowledge that some problems might be inherent in individual programs. The pre-release code may be modified substantially before general availability. IBM does not guarantee that any of the pre-release programs contained on any of the CDs or the Web will ever be made generally available.

## About the User Interface

The IBM Developer Connection provides three options for viewing the catalog:

- Java Version 1.1
- HTML (This catalog displays all the available products. It is available from the Web site and on the CDs)
- Custom HTML (This catalog provides a list of products in the categories for the platforms that you specify. It is available only from the Web site.)

For information about potential problems with the Developer Connection user interfaces, see the [support page](#) on our Web site.

## Java version

The Java-based interface was designed for Netscape Navigator in an 800 x 600 pixel resolution with 256 colors. The interface also has been tested with the Microsoft Internet Explorer and other popular browsers.

The performance and stability of the various products and applets may vary depending on which platform and Java support level you are using. This is because Java is an evolving technology, and the Java support level available varies by platform. Check periodically for updates to the Java and browser support available for your system to ensure you have the most current levels.

## HTML versions

The HTML catalog (available in the CD Collection and on the Web site) displays all the available products. The Custom HTML catalog (available only on the Web site) displays the products for specific platforms and product categories that you select. The default displays all available products.

When you click the **Custom HTML catalog** option, a form listing platforms (such as Linux, Windows NT, OS/2, AIX and so on) and product categories (such as Compilers, FAQs and HATs and so on) is displayed. You can select any combination of platforms and categories, click **Submit**, and see a catalog of only those entries. For example, if you are interested in seeing compilers for AIX, select the **AIX** and **Compilers** check boxes, and then click **Submit**.



Note, however, that not all catalog entries are specific to a platform. To display these entries, leave the Platform check boxes empty or to narrow the list, leave the Platform check boxes empty and select one or more Category check boxes.

If you are interested in seeing only the entries that are new in an issue, select the **Display all NEW product entries** check box, and then click **Submit**. If you want to display NEW entries for specific categories, select the **Display all NEW product entries** check box and the check boxes for the categories you want to see, and then click **Submit**.

The Custom HTML catalog form also gives you the option of displaying catalog entries for specific membership levels. For example, to see product entries for only the Advanced Level, select **Advanced** and **Advanced**. You can see the catalog entries for more than one membership level by specifying the lower and upper membership levels. For example, select **Guest** and **Advanced** to see catalog entries for the **Guest** through **Advanced** membership levels.

You may save your preferences by clicking the **Save** and then the **Submit** buttons. Once saved, this customized view of the catalog contents is shown when you access the catalog again or until you click the **Clear** button.

**Note:** To display the entire catalog, select the **Clear** button, and then click **Submit**. This removes any custom settings you have saved using the **Save** button.

Your custom view will change as the content of the online catalog changes. As a result, your view is kept up-to-date with the latest Developer Connection product listings.

## Year 2000 Ready Information

The IBM Developer Connection team is currently reviewing all program content to ensure only products that are Year 2000 Ready are delivered to our customers.

IBM has defined products that are Year 2000 Ready as follows:

*Year 2000 Ready means that the IBM product or deliverable when used in accordance with IBM associated documentation, is capable of correctly processing, providing and/or receiving date data within and between the twentieth and twenty-first centuries, provided that all products (for example, hardware, software, and firmware) used with the IBM product or deliverable properly exchange date data with it.*

For additional information, select the [Links](#) button on the IBM Developer Connection Web site or visit the IBM Year 2000 Web site at [www.ibm.com/year2000/](http://www.ibm.com/year2000/).

IBM is not responsible for the readiness of products of other companies. This includes any third-party products we may remarket or include with IBM products, such as software pre-loaded on IBM personal computers. Other companies are responsible for the readiness of their products.

## Hardware and Software Requirements

### Hardware Requirements:

- CD-ROM drive (double speed or faster is suggested: support for RockRidge extensions, i.e. files with long file names and mixed case names is required).

### Software Requirements:

The following software is provided on the CDs for your use as described in the installation section for each platform. Newer versions also may be available at each company's Web site.

- Web browser supporting HTML 3.x, frames and Java (suggested) or Web browser supporting HTML 1.0 or higher.

If you do not have a Java-enabled browser, you can install a version of Netscape Navigator from the appropriate subdirectory for your operating system under the `\netscape` directory. If you are viewing this information from the Web, you also can download the latest version from the Netscape Web site at [www.netscape.com/](http://www.netscape.com/). Netscape Navigator for OS/2 can be downloaded from the Web site at [www.software.ibm.com/os/warp/netscape/](http://www.software.ibm.com/os/warp/netscape/).

- Library Reader (optional) is used to view BOO files, or documents in BookMaster format. You can install the appropriate version of the Library Reader from the `\readibm2` directory for OS/2 or the `\readibmw` directory for Windows. If you are viewing this information from our Web site, both versions are available for download at the Guest Level. See the appropriate catalog entry for your operating system under the *Utilities and Tools* category.
- VIEW, XVIEW or IVIEW (optional) is used for reading INF files. This tool can be downloaded from the Developer Connection Web site at [www.developer.ibm.com/devcon/](http://www.developer.ibm.com/devcon/).

**Note:** Adobe Acrobat Reader (optional) is used to view and print files in Portable Document Format (PDF). If you are viewing this information from the Web, you can download a copy from the Adobe Web site at [www.adobe.com/](http://www.adobe.com/).



## Platform Compatibility Matrix:

HTML3, Frames & Java Supported	OS/2 Warp 4	Windows 95/98	Windows NT	AIX* 4.3.0
Netscape Navigator 2.02	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>No</b>
Netscape Navigator 3.0	<b>n/a</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Netscape Navigator 4.0	<b>n/a</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Internet Expl 2.0	<b>n/a</b>	<b>No</b>	<b>No</b>	<b>n/a</b>
Internet Expl 3.0	<b>n/a</b>	<b>Yes</b>	<b>Yes</b>	<b>n/a</b>
Internet Expl 4.0	<b>n/a</b>	<b>Yes</b>	<b>Yes</b>	<b>n/a</b>
Adobe Acrobat 3.0	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Adobe Acrobat 4.0	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>

\* For Java to be enabled on these AIX platforms, X11R5 and Motif 1.2 must be installed.

## Getting Started

To get started, point your browser to `index.html` in the root directory of a CD to view the licensing terms, content listing, descriptions of the various products, or to view featured documents. The content list and product descriptions are provided within the “catalog.” The catalog view shown varies depending upon the source of the catalog. For example:

- *Member Level Disc 1* has a full view of the CD and online contents, or “master” catalog, at the Guest, Member, Advanced and Premier levels as of July 1999.
- Other CDs have a view of only the contents on that CD.

Note: Product names in the catalog and content lists contain the disc numbers where the products are located, preceded by the subscription level. For example, M1 following the product name indicates that the product is on Member Level Disc 1, A3 indicates Advanced Level Disc 3, and P2 indicates Premier Level Disc 2. Other designations in the product names are:

- **G** — The product is available to registered guests.
- **NEW** — The product is available for the first time in an issue.
- **TRIAL** — The product can be used for a limited time after you install it. For information about the length of the trial period, refer to the description of the product.
- **Web-only** — The product is available only on the Developer Connection Web site.
- **CD-only** — The product is available only on the CD collection.

The *master* catalog for the set of CDs is updated for each new issue. The most recent “master” catalog can be found on a Member Level disc with *contains updated master catalog*, noted on the CD label. The location also is identified in the *User's Guide* (`usrguide.htm`).

**Note:** The set of CDs may sometimes contain CDs built by another group, which may not include a catalog. For example, Advanced Level Disc 6 through 15 are CDs produced by another IBM group.

The catalog on the IBM Developer Connection Web site also is a master catalog and displays a view of all online and CD contents. The contents can be viewed by any registered developer, but downloading an offering requires a userid and password. For example, to download a Guest Level offering, you must be a registered developer at the Guest Level. To download a Premier Level offering, you must be a Premier Level subscriber. Visit our Web site at [www.developer.ibm.com/devcon/](http://www.developer.ibm.com/devcon/) for additional information about becoming a subscriber.

The catalog on the Web site is updated on a regular basis as new products and information become available. Check it periodically to ensure you are using the latest technology available.



## Navigation Options:

**The Table of Contents (Catalog):** The Table of Contents for the CD set, or catalog, is displayed in the user interface. You can use the catalog to quickly jump from one category to another on the CD. If you are using a Java interface, click on any product and the information for the entry is shown in the large presentation area on the right.

If the entry is a product, information about that product is displayed.

If the entry is a document, selecting the entry displays the actual document. **Note:** You must have installed the corresponding "viewer" and made the associations for that file format in your browser. For example, PDF files can be displayed if you have installed Adobe Acrobat Reader and made the file association for PDF in your browser.

Now click on another entry in the catalog and that information is shown. Notice that if you allow the mouse to "hover" over an entry, the complete text for that entry is shown on the browser Status bar.

**The Views Option (Java Interface):** Because of the extensive scope of the Developer Connection offerings, the Views option is available as a navigation aid. The Views option is available if you are using the Java-based interface or the Custom HTML catalog. This option allows you to select a specific operating system platform or subscription level and view only the offerings for that platform or level. For example, to see only the offerings for the AIX platform, select **AIX** from the Views pull-down menu and a list of products and topics pertaining to AIX is shown. To see only the offerings for the Advanced Level, select **Advanced** from the Views pull-down menu.

The Views Option window is located above the Table of Contents in the upper left-hand corner of the user interface. Click on the arrow to open the pull-down menu and a list of choices is shown.

To see a list of the new entries in this CD issue, select the *New Products* view. Use the Categories window below the Views option, to explore the variety of new content available.

**Contents Listings:** To help you identify the offerings contained on the CDs faster and easier, two files (`contents.htm` and `contents.cd`) are provided. The `contents.cd` file is an ASCII listing and is included in the root directory on each CD. The `contents.htm` file is included in the root directory on the *master* disc for each CD shipment. This content information also is printed in the *Welcome Letter and Content List*.

The `contents.htm` file on Member Level Disc 1 contains a complete list of the The IBM Developer Connection Release 2 content as of July 1999.

The `contents.cd` file contains an ASCII text listing of the contents specific to the CD you are using.

**The Search Button (Java Interface):** Clicking on the *Search* button allows you to search many of the documents and files on the CD. An index-based search is performed. Encoded or compressed files are not searched. The index references the product descriptions for catalog entries on the CDs. The search criteria, specified in the *Search Dialog* window, may contain more than one word and is not case sensitive. Additional options in the dialog window allow you to refine the search function. For example, you can specify the number of results presented that match the keyword or words. The default for this option is 100.

A list of titles containing the keywords or search string in the document resulting from the search is presented in a window within the dialog window. Scroll through the list shown and click on an item in the list to view a specific document. If this is a large document, use the browser's *Find* function to locate the desired text.

For additional information on Search capabilities, invoke the online help.

**Note:** If you are using an OS/2 system, you also can search INF and ASCII files on Member Level Disc 1. From an OS/2 command prompt, change to the root directory of the drive where Member Level Disc 1 is located. Then, type **browseos2** to start the browser. Through this interface, you can search files located in the `\os2docs` directory.

**Printing:** To print information in a frame, select the frame you want to print before you select the browser's print function. For example, to print the document displayed in the large information frame on the right, click inside that frame once with the left mouse button. Then select the print function from the File pull-down menu. Then select the Frame Print option.

**Additional Browser Sessions:** Some of the document links in the interface are to places on the World Wide Web. These links typically open another browser session to display that URL. OS/2 users should check the desktop settings for new browser sessions to determine whether these new sessions will be opened on the screen, or as minimized sessions. You can choose to keep both sessions open, and change the session focus between them, or to close the new session and return to the main interface window.

## Product File Formats:

Product files have been packaged in tar or ZIP formats, whichever is appropriate for the operating system used. Tar files are compressed with UNIX compress and have been given a `.Z` as the file name extender. (When you uncompress a `*.tar.Z` file, the result is a `.tar` file.)

Zipped products in the Developer Connection catalog were compressed using INFOZIP, which can be downloaded from [www.cdrom.com/pub/infozip/](http://www.cdrom.com/pub/infozip/). For best results, we recommend you use INFOZIP to unzip these products as the utility's unzip routine does a recursive unzip into subdirectories, automatically. If you cannot use this utility on your operating system, use a tool that recursively unzips the packaged files.



The following is an example of how to decompress a tar.Z file provided on the CD:

1. Copy the file to your system and change to that directory. Make sure the file name is `samp.tar.Z`, where the Z is uppercase and 'samp' is the base file name for your file.
2. Type **`uncompress samp.tar.Z`**  
This produces a tar file named `samp.tar`.
3. Type **`tar -xvf samp.tar`**  
This extracts the contents of the tar file.

The following is an example of how to decompress a tar.gz file on the CD using UNTGZ in OS/2:

1. In an OS/2 Window, change directory to the disk and directory where you want the unpacked files to reside. Please note that this must be an HPFS disk.
2. Type **`untgzos2 x:\sample\samp.tar.gz`** where x: is your CD-ROM drive.  
This extracts the contents of the tar file.

Once the product is decompressed you should follow any additional instructions provided in the product description or readme file for this product. Where an installation program is provided, you can manually invoke the installation from the command line.

The following is an example of how to install an OS/2 product from the online Web catalog:

1. Download the product zip file to a temporary directory.
2. Unzip the file.

Read the individual product `readme` file, when available, for more information.

### **FTP Restart Feature:**

The FTP Restart feature allows your browser to request only that portion of the file that was not received, if your connection is disrupted during the download process. This is useful when downloading "large" files like some that are available from the Developer Connection. If FTP Restart is available, only the portion of the file that was *not received* is sent by the FTP server when the connection is reestablished.

FTP Restart must be supported on both ends (server and client) of the FTP connection in order for it to be enabled for a given download. Most Internet FTP servers today, including the IBM Developer Connection FTP servers, do support this feature. Therefore, the more important consideration is whether the feature is supported by your Web browser. Current versions of the most popular browsers (Netscape Navigator 4.0 or higher and Internet Explorer 4.0) do support this feature.

When this feature is available, the FTP client and server periodically exchange information describing the current position within the file being transferred. If the FTP connection is broken before the transfer completes, the client and server resume from the most recent file position that was successfully transferred when the connection is reestablished.

### **Note to Users of Netscape Navigator 4.0:**

- Netscape Navigator 4.03 supports FTP Restart provided the size of the file being downloaded fits within the current "Memory Cache" limit. Because the maximum Memory Cache is 99,999 KB, files larger than approximately 100 MB cannot currently use this feature.
- To use this feature when downloading a large file, adjust your Memory Cache settings.

## **Installing on an AIX System**

To install AIX products from the CDs.

1. Insert the CD into the CD-ROM drive and login as root.
2. At the AIX command line, type: **`mkdir -p /usr/DevCon`**
3. Allocate a CD-ROM file system.
4. Mount the CD over the directory `/usr/DevCon`
5. Invoke a Java-enabled browser.
  1. Select *file open* from the File options list.
  2. Select the *file index.html*.

To change CDs, you must unmount the current CD and then mount the new CD.

Most of the AIX products have a readme or some other file in the corresponding directory that contains installation information. However, some products do not have this information. In these cases, the directory where the product is located contains only the images (for example, binary file format). To install these products, use *installp* from the command line or from System Management Interface Tool (SMIT).

You must be logged in as root to install products from the interface. You can optionally install Netscape Navigator and the Information Presentation Facility to view INF files.

**Note:** Library Reader is used to view BOO files (files in BookManager format). Library Reader is not available for AIX. It is available for OS/2 and Windows only.

### Installing Netscape Navigator for AIX:

1. Make a temporary directory on your AIX system. For example: `/usr/temp`
2. Copy the files from the mounted CD in the `/navigate/aix` directory to this temporary directory.
3. Make sure you have INFOZIP installed somewhere in the path.
4. Change the directory to your temporary directory, then type **ns-install**
5. After the install is complete, delete the temporary files in the temporary directory.

### Installing the AIX Information Presentation Facility/6000:

The AIX Information Presentation Facility/6000 is needed to view documents, which are provided in INF format. Version 2.2.0.0 of the AIX Information Presentation Facility/6000 is provided, if you do not already have it installed on your system. The installation image is in the `/ipfx` directory on Member Level Disc 1.

To install it, execute the following command as root: **installp -qacNX -d ImageDir ipfx.rte** where ImageDir is the directory where the ipfx image exists on the CD.

## Installing on an OS/2 System

If you want to install the Netscape Navigator provided on this CD, IBM OS/2 Warp must be installed on your system and, in some cases, certain corrective service must be applied to meet the prerequisites for the Java-enabled browser.

If you are running OS/2 Warp Version 4 or Version 3 (using the Internet Access Kit), no additional Java software is required. You do not have to install the Java Development Toolkit option in OS/2 Warp Version 4 to use the interface, only to do Java development work.

For all other OS/2 systems, type SYSLEVEL at an OS/2 command prompt and follow these steps:

1. If the SYSLEVEL.TCP file indicates IBM TCP/IP Version 2.0, install CSD level UN64092 located at:  
<ftp://service.boulder.ibm.com/ps/products/tcpip/fixes/v2.0os2/un64092>
2. If you plan to run Netscape Navigator on a LAN, and the SYSLEVEL.TRP file indicates IBM OS/2 LAN Adapter and Protocol Support Version 2.60.5 (or higher), install CSD level 8210 located at:  
[service5.boulder.ibm.com/psfixpk.nsf](http://service5.boulder.ibm.com/psfixpk.nsf)
3. If the SYSLEVEL.TRP file indicates version 2.60.2 or lower, install CSD level 8150 located at:  
[service5.boulder.ibm.com/psfixpk.nsf](http://service5.boulder.ibm.com/psfixpk.nsf)

### Installing Netscape Navigator for OS/2:

To install Netscape Navigator for OS/2 do the following:

1. Insert the CD into your CD-ROM drive.
2. Run the install.exe program from the root directory.

For more information about the Netscape Navigator, see:

<http://www.software.ibm.com/os/warp/netscape/>.

3. Reboot the system after successful installation.
4. Enable Java from Netscape.
  1. Select the *Options* pull-down menu on the browser.
  2. Select *Security Preferences*.
  3. Make sure *Disable Java* is not checked.

**Note:** The Netscape Navigator for OS/2 does not support WIN-OS/2 programs as helper applications. However, the Acrobat Reader may be set up as a helper application.

To determine if the Netscape association has been correctly configured, do the following:

1. Select *General Preferences* from the Netscape Options menu.
2. Select the *Helpers* tab from the dialog window.
3. Make sure that there is an entry for application/pdf. If an application/pdf entry is not listed, do the following:
  1. Select the *Create New Type* button.
  2. Type **application** for the MIME Type.
  3. Type **acoread** for the MIME Subtype.
  4. Click **OK**, to return to the Helpers tab window.
  5. Type **pdf** as the File Extensions.
  6. Click on **Launch the application** as the Action.
  7. Type **X:\xxxxxxx\acoread.exe** in the program window,  
where X:\xxxxxxx = local path.
  8. Click **OK**.



## Installing Library Reader/2:

Many documents are provided as \*.BOO files, or in BookMaster format. These files can be viewed on OS/2 using Library Reader/2. You can use Library Reader/2 from the CD by configuring your browser for helper applications and referring to the `\readibm2` directory on Member Level Disc 1. Or, you can install Library Reader/2 from the `\readibm2` directory and configure your browser accordingly for the directory you have chosen.

## Installing on a Windows 95, Windows 98 and Windows NT System

If you do not have a Java-enabled browser installed, you can install Netscape Navigator, which is included on the CD under the `\netscape` directory.

If you would like to install the IBM Library Reader for Windows, refer to the `\readibmw` directory. This is optional.

If you would like to install the INF viewer support for Windows, refer to the `\iview` directory. This is optional.

### Launching Acrobat PDF files from Netscape:

If you are having trouble getting Netscape to recognize the PDF files on the CD, follow the steps below.

Make sure that the Netscape association has been correctly configured:

1. Select *General Preferences* from the Netscape Options menu.
2. Select the *Helpers* tab from the dialog window.
3. Make sure that there is an entry for application/pdf. If an application/pdf is not listed, do the following:
  1. Select the *Create New Type* button.
  2. Type **application** as the MIME Type.
  3. Type **acroread** as the MIME Subtype.
  4. Click **OK**, to return to the Helpers tab window.
  5. Type **pdf** as the File Extensions.
  6. Click on **Launch the application** for the Action.
  7. Type **X:\xxxxxxx\acroread.exe** as the program name, where X:\xxxxxxx = local path.
  8. Click **OK**.

### Launching AVI files from Netscape: (optional)

If you are having trouble getting Netscape to recognize AVI files on the CD, follow the steps below.

Check to make sure that the Netscape association has been correctly configured. To do this, select General Preferences from the Netscape Options menu. Next, select the Helpers tab from the dialog. Check to make sure that there is an entry for video/x-msvideo. If not, do the following:

1. Select the *Create New Type* button.
2. MIME type = **video**.
3. MIME subtype = **x-msvideo**.
4. Press **OK**.
5. File Extensions = **avi**.
6. Action = **Launch the application**.
7. Program Name = **X:\xxxxxxx\mplayer.exe**, where X:\xxxxxxx = directory windows is installed.
8. Press **OK**.

### Library Reader for Windows:

Many documents are provided as \*.BOO files, or in BookMaster format. These files can be viewed on Windows platforms using Library Reader. You can use Library Reader from the CD by configuring your browser for helper applications and referring to the `\readibmw` directory on Member Level Disc 1. Or, you can install Library Reader for Windows from the `\readibmw` directory and configure your browser accordingly for the directory you have chosen.

### IVIEW:

Many documents are provided as \*.INF files. These files can be viewed on Windows platforms using IVIEW. You can use IVIEW from the CD by configuring your browser for helper applications and referring to the `\IVIEW` directory on Member Level Disc 1. Or, you can copy the files in the `\IVIEW` directory to your system and configure your browser for the appropriate directory you have chosen.



## Communicating With the IBM Developer Connection Team

We appreciate your comments on how we are doing, what else we can do to help make your job easier, or which products you need. We look forward to hearing from you. You can e-mail us at [devcon@us.ibm.com](mailto:devcon@us.ibm.com) or visit us on the Web at [www.developer.ibm.com/devcon/](http://www.developer.ibm.com/devcon/).

To communicate with us by U.S. mail, use the following address:

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