

INTERNET DEVELOPERS TOOLKIT FOR G

Version 5.0

These installation and release notes contain information about the Internet Developers Toolkit for G, which you can use to send, receive, store, and publish information across the Internet using virtual instruments (VIs) you develop in the G programming environment.

Contents

Installation Instructions.....	2
Microsoft Windows 3.1	2
Microsoft Windows 95	2
Microsoft Windows NT	3
680x0 Macintosh	3
Power Macintosh	3
Solaris 1	4
Solaris 2	4
HP-UX	4
Files and Directories	5
Compatibility Issues	5
Upgrading from Previous Versions	5
Upgrading from Version 4.0.1	6
Features Introduced in Version 5.0	6
Bug Fixes in Version 5.0	7

Installation Instructions

The following sections contain instructions for installing the Internet Developers Toolkit for G on the Windows, Macintosh, and UNIX platforms.

The Internet Toolkit is distributed on CD. If you need to install on a system without a CD drive, either mount it as a volume over a network or create a set of floppies from the directory on the CD.

The CD also includes a toolkit version that is compatible with LabVIEW 4.x or BridgeVIEW 1.x. You can find the installers for these versions in the \OLD directory on the CD.

Microsoft Windows 3.1

Complete the following steps to install the toolkit:

1. Make sure BridgeVIEW 2.0 or LabVIEW 5.0 or later is installed on your system.
2. If you install this version of the Internet Developers Toolkit for G over an existing version of the toolkit, make sure that you first delete the `user.lib\internet` and `project\internet` directories.
3. Insert the Internet Developers Toolkit for G CD into your CD-ROM drive.
4. Run `setup.exe` in the `WIN31\DISK1` directory.
5. The installer asks for a destination directory. Select the directory in which you have BridgeVIEW 2.0 or LabVIEW 5.0 or later installed.

Microsoft Windows 95

Complete the following steps to install the toolkit:

1. Make sure BridgeVIEW 2.0 or LabVIEW 5.0 or later is installed on your system.
2. If you install this version of the Internet Developers Toolkit for G over an existing version of the toolkit, make sure that you first delete the `user.lib\internet` and `project\internet` directories.
3. Insert the Internet Developers Toolkit for G CD into your CD-ROM drive.
4. Run `setup.exe` in the `WIN95-NT\DISK1` directory.
5. The installer asks for a destination directory. Select the directory in which you have BridgeVIEW 2.0 or LabVIEW 5.0 or later installed.

Microsoft Windows NT

Complete the following steps to install the toolkit:

1. Make sure BridgeVIEW 2.0 or LabVIEW 5.0 or later is installed on your system.
2. If you install this version of the Internet Developers Toolkit for G over an existing version of the toolkit, make sure that you first delete the `user.lib\internet` and `project\internet` directories.
3. Log on to Windows NT as an administrator or as a user with administrator privileges.
4. Insert the Internet Developers Toolkit for G CD into your CD-ROM drive.
5. Run `setup.exe` in the `WIN95-NT\DISK1` directory.
6. The installer asks for a destination directory. Select the directory in which you have BridgeVIEW 2.0 or LabVIEW 5.0 or later installed.

680x0 Macintosh

Complete the following steps to install the toolkit:

1. If you install this version of the Internet Developers Toolkit for G over an existing version of the toolkit, make sure that you first delete the `user.lib:internet` and `project:internet` directories.
2. Insert the Internet Developers Toolkit for G CD into your CD-ROM drive.
3. Run `Internet Toolkit (68k)` in the `680x0 Macintosh` folder.
4. The installer asks for a destination directory. Select the directory in which you have LabVIEW 5.0 or later installed.

Power Macintosh

Complete the following steps to install the toolkit:

1. If you install this version of the Internet Developers Toolkit for G over an existing version of the toolkit, make sure that you first delete the `user.lib:internet` and `project:internet` directories.
2. Insert the Internet Developers Toolkit for G CD into your CD-ROM drive.
3. Run `Internet Toolkit (PPC)` in the `Power Macintosh` folder.
4. The installer asks for a destination directory. Select the directory in which you have LabVIEW 5.0 or later installed.

Solaris 1

Complete the following steps to install the toolkit:

1. If you install this version of the Internet Developers Toolkit for G over an existing version of the toolkit, make sure that you first delete the `user.lib/internet/` and `project/internet/` directories.
2. Mount the CD-ROM.
3. Change to the directory in which you have installed LabVIEW. You must have write permission for this directory.
4. Type the following UNIX command:

```
tar xvf /cdrom/solaris1/internet.tar
```

Solaris 2

Complete the following steps to install the toolkit:

1. If you install this version of the Internet Developers Toolkit for G over an existing version of the toolkit, make sure that you first delete the `user.lib/internet/` and `project/internet/` directories.
2. Mount the CD-ROM.
3. Change to the directory in which you have installed LabVIEW. You must have write permission for this directory.
4. Type the following UNIX command:

```
tar xvf /cdrom/solaris2/internet_1/internet.tar
```

HP-UX

Complete the following steps to install the toolkit:

1. If you install this version of the Internet Developers Toolkit for G over an existing version of the toolkit, make sure that you first delete the `user.lib/internet/` and `project/internet/` directories.
2. Mount the CD-ROM.
3. Change to the directory in which you have installed LabVIEW. You must have write permission for this directory.
4. Type the following UNIX command:

```
tar xvf /cdrom/HPUX/INTERNET.TAR
```

Files and Directories

After you install the Internet Developers Toolkit for G, the following files and directories are created on your hard drive inside the directory that contains your BridgeVIEW or LabVIEW application:

- `project\internet\`—Directory that contains the VIs accessible through the **Project»Internet Toolkit** menu.
- `vi.lib\addons\internet\`—Directory that contains the VIs accessible through the **Internet Toolkit** function and control palettes.
- `internet\`—Directory that contains the following configuration files and examples:
 - `internet.ini`—File for configuring your toolkit.
 - `home\`—Sample home directory that contains Common Gateway Interface (CGI) examples for the G Web Server.
 - `smtp\`—Directory that contains transliteration files.
 - `http\`—Directory that contains the following files for the G Web Server:
 - `conf\`—Directory that contains server configuration files.
 - `icons\`—Directory that contains image files.
 - `logs\`—Directory that contains server log files.
- `examples\internet`—Directory that contains example VIs for FTP, e-mail, and Telnet.

Compatibility Issues

The Internet Developers Toolkit for G version 5.0 has been compiled for LabVIEW 5.0, but it also works with later versions of LabVIEW and BridgeVIEW 2.0. If you install this toolkit into a system other than LabVIEW 5.0, you must mass compile the `project\internet`, `vi.lib\addons\internet`, `examples\internet`, and `internet` directories before you can use the Internet Toolkit VIs.

Upgrading from Previous Versions

This section provides an overview of how to upgrade from previous versions of the Internet Toolkit. The toolkit version number reflects the version of LabVIEW for which it is designed. The Internet Developers Toolkit version 5.0 is designed for LabVIEW version 5.0 or later. This toolkit also is designed to work with BridgeVIEW 2.0 or later.

Upgrading from Version 4.0.1

The Internet Developers Toolkit Version 5.0 includes improvements and bug fixes for version 4.0.1. Before you install the new version of the toolkit, you should remove the files installed by the previous version. These files are located in the following directories: `project\internet`, `user.lib\internet`, and `internet`.



Note

Installing version 5.0 overwrites contents of the `internet\home` directory, where the example homepage files are located. If you have saved your own HTML documents and CGI VIs in this directory, back them up before you install the toolkit.



Note

Installing version 5.0 overwrites the `internet\internet.ini` file and the configuration files located in the `internet\http\conf` directory. You might want to back up your configuration files before you install the toolkit.

Features Introduced in Version 5.0

Version 5.0 introduced the following new features:

- **Client-Side Cookie VIs** — Client-side cookie VIs allow your CGI VI to read and store persistent cookie information on the user's browser machine. The new VIs CGI Get Query Client Side Cookies, CGI Set Client Side Cookie, and CGI Set Multiple Client Side Cookies are located in the **Internet Toolkit»CGI VIs** function palette.
- **Images of Entire Panels** — When a browser requests an image from the G Web Server, you can now specify whether the image should contain all the controls on the panel or just those visible in the window. To include all controls on the panel, add `&full=on` to the end of a `.snap` or `.monitor` URL.
- **Automatic PNG Support** — The G Web Server automatically sends front panel images in Portable Network Graphics (PNG) format if it knows that the browser has built in support for PNG images. Panel images in PNG format are sharper and often smaller than panel images in Joint Photographic Experts Group (JPEG) format. Use the new **CheckPNGSupport** configuration directive to specify whether the server should check for PNG support.
- **Panel Images without Caching** — By default, the G Web Server caches images of panel windows for a time span specified by the configuration file. When a browser requests an image from the G Web Server, you can now specify the maximum age of a cached image. To receive an image at most `t` seconds old, add `&refresh=t` to the end of a `.snap` URL. Use the new **PanelImageRefresh** configuration directive to specify the default maximum amount of time an image is cached before it is refreshed.

- **HTML Document Builder** — The HTML Document Builder VI allows you to quickly construct an HTML document with an embedded static or animated image of a VI. You can preview the document in a browser or save it in your home directory. You open this VI by selecting **Project»Internet Toolkit»HTML Document Builder....**
- **Internet Toolkit Configuration** — The Internet Toolkit Configuration VI allows you to quickly specify the most common settings of the Internet Toolkit. You open this configuration VI by selecting **Project»Internet Toolkit»Internet Toolkit Configuration....**
- **New Web Examples** — Additional examples have been added to the example homepage installed with the toolkit. You can view the example homepage by first configuring the G Web Server to point to the *LabVIEW directory\internet\home* directory and then by connecting to the server from a browser.
- **New Location in Palettes** — The VI and control palettes of the Internet Toolkit are no longer located in the **User Libraries** subpalette but are now directly accessed from the main **Function** and **Controls** palettes.

Bug Fixes in Version 5.0

Version 5.0 includes the following improvements and bug fixes for version 4.0.1:

- Some controls in the Internet Toolkit controls palette did not point to valid control files.
- The SMTP VIs did not correctly parse e-mail addresses that contained certain characters in the username or domain. Some usernames or domains were truncated and would not work with the VIs.
- The Add User VI called by Password User File Editor VI was not a dialog window. When the VI was opened you could no longer operate the Password User File Editor VI.
- The G Web Server did not respond to simple queries in HTTP/0.9 format. Queries in the form of "GET /\r\n" would time out and were not processed by the server.
- The G Web Server did not send requests to CGI VIs that were stopped using the Abort button. When a CGI VI was aborted, you would have to stop and restart the G Web Server to use the CGI again.
- The G Web Server did not correctly calculate the `PATH_INFO` and `PATH_TRANSLATED` environmental variables.



321890B-01

Jun98