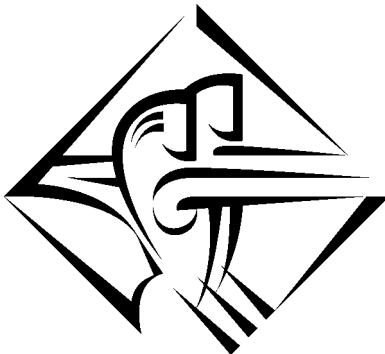


Tango Enterprise 3

Mac OS



Getting Started Guide

First Edition
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EveryWare Development Inc.
6733 Mississauga Road, 7th Floor
Mississauga, Ontario
Canada L5N 6J5

Telephone: (905) 819-1173
Fax: (905) 819-1172
Internet: tango@everyware.com
WWW: <http://www.everyware.com/>

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Tango Enterprise

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About This Guide

Tango™ Enterprise is comprised of two distinct components:

- *Tango Development Studio* is used to develop and maintain your Tango applications. Tango Development Studio includes Tango Editor and Tango Personal Server.
- *Tango Application Server* is used to deploy the applications created with Tango Development Studio.

Typical installations include a Tango Development Studio for each developer and one or more Tango Application Servers, depending on the volume of application users.



Note Tango Personal Server and Tango Application Server are referred to generally as Tango Server, unless otherwise specifically stated.

The *Getting Started Guide* gives you the information you need to install and start to use Tango Development Studio and Tango Application Server.

The topics covered in this guide include:

- preparing to install Tango
- installing Tango Development Studio and Tango Application Server
- registering your products
- starting and stopping a Tango Server
- converting query documents from previous versions of Tango to application files
- executing Tango application files
- getting help.

Getting Ready to Install Tango

This section provides a checklist of things to review before you install Tango. Using this checklist helps ensure your installation goes smoothly so you are up and running as soon as possible.

Before you begin installing Tango, you should read in this section about:

- checking your Tango package for completeness
- what you need to know before installing Tango.

Checking Your Tango Package

Depending on which Tango product you have purchased, your package may contain either of the following:

- Tango Development Studio includes a CD-ROM, *Getting Started Guide*, *User's Guide*, *Tutorials* manual, *Meta Tags and Configuration Variables* manual, and *Quick Reference* card.
- Tango Application Server includes a CD-ROM, *Getting Started Guide*, and *User's Guide*.

CD-ROM

The Tango CD-ROM contains the installer program and, depending on which Tango product you have purchased, it may contain the following compressed directories and files:

- Tango Server and Java Server files
- Tango Editor
- Tango CGI (`Tango3.acgi` or `Tango3_68k.acgi`)
- Tango Server plug-in (`Tango3 Server`)
- various folders to contain Tango program files, tutorials, demos, and samples
- ODBC
- user's documentation in Adobe Acrobat format (`.pdf`) and Adobe Acrobat Reader software
- program HTML help files
- Read Me file.

Tango Documentation

User's documentation (except on-line HTML help) is available in printed form and, except for the *Quick Reference* card, in Adobe Acrobat (.pdf) format on the CD-ROM.

- *Getting Started Guide*
- *User's Guide*
- *Tutorials* (in Tango Development Studio only)
- *Meta Tags and Configuration Variables*
- *Quick Reference* card
- on-line HTML help.

What You Need To Know

The following table shows the minimum and recommended configurations for Tango.

Component	Minimum	Recommended
Computer	68040-based Mac OS computer	Power PC-based Mac OS computer
Operating Environment	Editor Mac OS 7.6.1 Server Mac OS 7.6.1 Open Transport 1.1.2	Editor Mac OS 8.1 Server Mac OS 8.1 Open Transport 1.3
RAM	Editor 5 MB free Server 5 MB free	Editor 8 MB free Server 12+ MB free
Web Server*	WebSTAR 1.3.2 or AppleShare IP 5.0 Web Server	WebSTAR 3.0 or AppleShare IP 5.0.2b Web Server
Oracle database access; see "Using Macintosh Oracle Libraries With Tango" on page 4.	Oracle database server and v2.1 of the Oracle client software	Same as minimum
FileMaker Pro	FileMaker Pro 3.0v4	FileMaker Pro 4.0

* Any server supporting the CGI standard should work with the CGI version of Tango. Only WebSTAR and ASIP are officially supported currently.

Before installing Tango, make sure the appropriate components are installed according to the system requirements. If you already have the necessary components installed, then you are ready to install Tango.

To get any late breaking news, you should visit the EveryWare Web site.

You should also look at the `Read Me` file on the CD-ROM. This file may contain information that was not available when this guide was printed.

Before installing Tango, you should do the following:

- If you want to install the Web server plug-in, stop your Web server.
- Close all open programs or applications. This reduces the chance of conflicts and frees system memory for the installation.

Using Macintosh Oracle Libraries With Tango

Tango 3 supports OCI connections with Oracle library version OCI 7.1.4.1.5 or OCI 7.1.4.1.6 only. If you are using Intersolv's 3.01 Oracle ODBC driver, you require SQL*NET 2.1.4.0.4 and later (prior to 2.3). If you are using Intersolv's 3.02 Oracle ODBC driver, you require SQL*NET 2.3.2.0.3.

You can tell which versions of OCI and SQL*NET you have installed by doing either of the following:

- Run your Oracle installer and observe the version information that appears.
- Open the "Oracle Libraries" alias in your `Extensions` folder, click `OracleOci71Lib`, and choose **Get Info** from the **File** menu.

If necessary, you can get OCI 7.1.4.1.5 from Oracle's FTP site as part of the PO7 package. You can get OCI 7.1.4.1.6, SQL*NET 2.1.4.0.4, and SQL*NET 2.3.2.0.3 by getting in touch with Oracle client relations.

- In the United States:
 - Gold Support 1 800 440-4653
 - Silver Support 1 800 223-1711
 - Bronze Support (407) 240-8900 (East)
 - (719) 635-8900 (Central)
 - (650) 506-1500 (West)
- In Canada: 1 888 753-4428
- Internet: [http://support.oracle.com/
client_relations/](http://support.oracle.com/client_relations/)

Installing Tango

This section tells you how to install Tango. It covers the following topics:

- what the Tango installer does
- what you need to know
- installing Tango.

What the Installer Does

The Tango installer does the following:

- validates the product box number
- accepts user input regarding components and configuration
- checks for disk space
- creates folders on your hard disk and copies Tango program files to them
- installs Visigenic ODBC Manager or Intersolv ODBC Driver Pack
- creates a `Java` folder below the folder where Tango Server is installed and copies Java files to it.

What You Need to Know

To install Tango you need to know the following information:

- box number appearing on the product box
- which Tango components you want to install and where on your hard disk you want to install them
- your Web server folder
- what mail server you want the Mail action to use.



Note You should close all applications on your computer, including your Web server, before continuing.

Starting the Installation



- 1 Insert the Tango CD into your CD-ROM drive, and double click the Tango Install icon.

The Tango box number dialog box appears.



- 2 Type your box number and click **OK**.

The box number indicates which product you have purchased: Tango Development Studio or Tango Application Server.



Note The number is case sensitive, so you must type it exactly as it appears on the product box. If you get an error message telling you the box number is invalid, double check the number and try again. A common mistake is to confuse "1" (the number) with "l" (the letter) or "0" (the number) with "O" (the letter).

The Tango Installer splash screen appears.

- 3 Click **Continue**.

The EveryWare License Agreement appears.

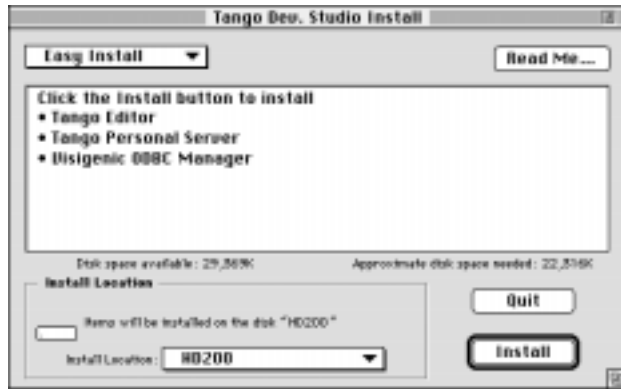
- 4 Click **Accept** if you accept the terms of the agreement and to continue the installation.

The "Tango 3 Enterprise Release Notes" appear.

Before installing Tango, you should read these notes as they may contain information that is not included in this guide.

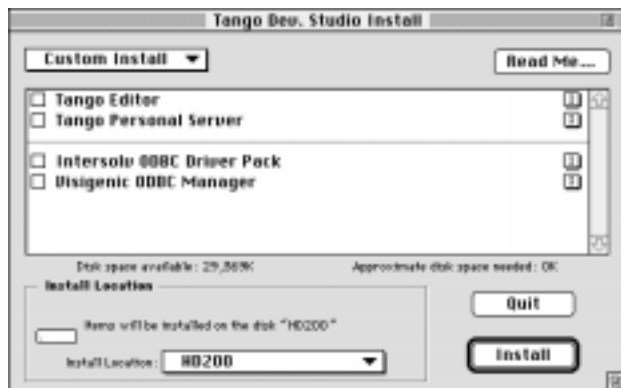
- 5 Click **Continue**.

Depending on which Tango product you have purchased, the Install window for either Tango Development Studio or Tango Application Server appears, for example:



Note If you have purchased Tango Application Server, the Tango Editor and ODBC options do not appear in the Install windows.

- 6 From the install pop-up menu, select the type of installation you want to perform.
 - **Easy Install** installs everything you need to use either Tango Development Studio or Tango Application Server. If you are installing Tango for the first time, you should use this install method.
 - **Custom Install** allows you to individually select the Tango components to install, for example:





Note To use the Tango Tutorials, you must install the Visigenic ODBC Manager. The Tutorials use the Butler SQL ODBC driver, and you cannot create new Butler SQL ODBC data sources with the Intersolv configuration manager.



To get more information on a particular option, click the information icon next to it.

When you select a custom option, **Approximate disk space needed** shows you the amount of disk space required to install that option. The amount of disk space available on the target disk appears beside **Disk space available**.

Before installing Tango, you should read the latest information about Tango that may not be included in this guide. If you have not already read this information, click **Read Me...** to view it now.

- 7 Tango Editor is installed in the `Tango3` folder at the root of the specified disk. If you want to install Tango on a different disk, click **Switch Disk** to change disks.



Note You must select a locally mounted volume. The installer cannot install Tango on a network server volume.

8 Click **Install**.

A message appears recommending that you restart your computer after the installation and that if you continue the installer will automatically quit any applications you currently have running.

9 Click **Continue**.

If you are installing Tango Server, the folder selector appears.

Navigate to the folder you want to install Tango Server in, or click **New Folder** to create a new folder.

If you are installing Tango Editor only, this folder selector does not appear.



Note You must install Tango Server within your Web server root folder.

- 10 Click **Select** to continue.

The Mail settings window appears.

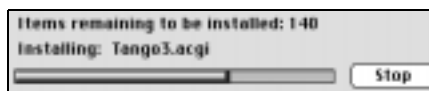


- 11 Type the name of the mail server and the default **From** address to use for the Tango Mail action.

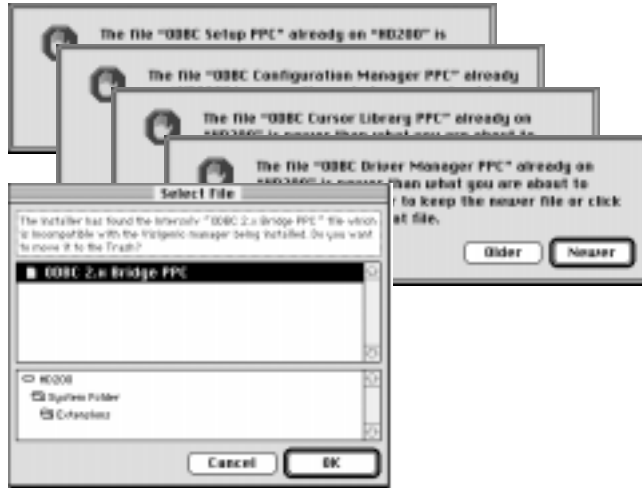
If you leave the fields blank, you can use the `config.taf` application file to add this information later. For more information, see “Configuring Tango Server” on page 16.

- 12 Click **OK**.

The installer copies files to the locations you specified on your computer.



If you are installing the Visigenic ODBC Manager, messages may appear telling you that newer files already exist. To use the Tango Tutorials, you *must* install the older files. Click **Older** in each case. You may also be asked if you want to move the ODBC 2.x Bridge PPC file to the Trash. Click **OK**.



Tip After performing the Tutorials, you may go back to the newer version of ODBC by doing a Tango Custom installation of the Intersolv ODBC Driver Pack.

Once the installer finishes copying files to your computer, the following message appears.



See “Getting Your Registration Number” on page 11.

You must get a product registration number from EveryWare and register Tango before the five-day temporary license generated by the product expires. The five-day period starts when you first run Tango.

13 Click **OK**.

A message appears telling you the installation was successful.



- 14 Click **Restart** to restart your computer before using Tango (recommended), **Quit** to leave the installer, or **Continue** to perform other installations.

Getting Your Registration Number

To get your product registration number

- 1 Open your browser and go to the EveryWare registration Web site:

<http://www.everyware.com/registration/>

The EveryWare Product Registration form appears.



- 2 Enter your product box number, and click **Continue**.



Step 1: Tell us about your purchase

Enter your product's Box Number:

Continue

- 3 Fill in the rest of the form according to the on-screen instructions, then click **Register**.

EveryWare returns your registration number to you via e-mail within one business day.

Registering Tango

When you first run Tango Editor, you are prompted to register it by entering your box and registration numbers. You must register Tango Editor before the five-day temporary license expires. You can also run Tango Server for five days before you must register it.



Note If you have purchased Tango Development Studio, which includes Tango Editor and Tango Personal Server, you must register it for both Tango Editor and Tango Server as described next.

Tango Editor

To register Tango Editor

- 1 Open Tango Editor.

The Tango Editor Registration dialog box appears.



If you want to display the registration dialog box after Tango Editor has been registered, choose **Enter New Registration Number** from the **Help** menu.

- 2 Enter your box number and the product registration number you got from EveryWare.
- 3 Click **OK** to register Tango Editor.

If you click **Later**, Tango Editor runs under the temporary license for five days starting from when you first run it.

Tango Server

To register Tango Server

- 1 Start Tango Server and execute the registration application file (`Registration.taf`) located in the `:Tango3:Registration:` folder under your Web server root folder, for example:

```
http://www.yourserver.com/Tango3/Registration/Registration.taf
```

The Tango Server Registration form appears.



2 Click Next.

The Tango Server Registration number entry form appears.



3 Enter the product registration number you got from EveryWare.

4 Click Next to register Tango Server.

Starting and Stopping Tango Server

For more information, see "Registering Tango" on page 13.

If you have not already registered Tango Server, you should start Tango Server and register it before continuing.

If You Are Using the CGI



The Tango CGI is installed in your Web server root folder.

- To start Tango Server, double click the `Tango3.acgi` icon.
- To stop Tango Server, select **Quit** from the **File** menu.



You can also quit Tango Server using the keyboard shortcut, **⌘Q**.

If You Are Using the Tango Server Plug-in

The Tango Server plug-in is installed in your Web server `Plug-Ins` folder. The plug-in works only with Web servers supporting the WebSTAR API.



Note The plug-in is not available in a 68K version; to run Tango Server on a 68K machine, you must use the CGI.

- To start Tango Server, double click your Web server icon.
- To stop Tango Server, quit your Web server.

The Tango Server plug-in uses your Web server application's memory. To ensure proper operation at your site, you should increase the memory allocated to the Web server.

To change the Web server application's memory allocation:

- 1 If your Web server is already running, stop it before continuing.
- 2 Select the icon for the Web server application, and choose **Get Info** from the **File** menu.
- 3 Increase the **Preferred size** by at least 3000K (5000K is recommended).
- 4 Restart your Web server.

Configuring Tango Server

The Tango Server preferences file, Tango 3 Server Preferences contains configuration settings for many Tango Server options. This file is located in the Tango3 folder in the Preferences folder. Configuration options are set by default. You generally do not need to edit the preferences file directly.



You configure Tango Server by setting system configuration variables using the `config.taf` application file that comes with Tango. This file is located in the `:Tango3:Config:` folder in your Web server root folder.

To use it, execute the file in your browser, for example:

`http://www.yourserver.com/Tango3/Config/config.taf`

When you execute the `config.taf` application file, you are asked for a password.

Enter Configuration Password

The password can be changed by editing the value of `configPasswd` in the Tango 3 Server Preferences file and restarting the server.

The default password after installation is the first five characters of your box number. You can change the password by editing the value of the configuration variable, `CONFIGPASSWD=` in the Tango 3 Server Preferences file. This change takes place when you restart Tango Server.



For detailed information on configuring Tango Server, see Chapter 20 in the *User's Guide*, and the *Meta Tags and Configuration Variables* manual. You can also get configuration information by clicking the **Tango Server** button on the on-line HTML help button bar.

Note If you are editing the configuration file, you may see file stanzas for more than one server. This can occur because the same configuration file could be used by multiple servers. For example, one machine could be using Tango Personal Server (Development Studio) for development and a second remote machine could be using Tango Server for deployment. If you are editing the configuration file make sure you modify the correct file stanza, that is, `[Tango_3_Personal_Server]` or `[Tango_3_Server]`.

Click a category on the left to see the options for that category. Each option corresponds to a Tango configuration variable.



Caution The configuration options affect basic Tango Server functionality. Before changing any value, you should understand the effect of the change.

Converting Query Documents

Tango Editor can automatically convert Tango query documents from earlier versions to Tango application files. The file extension of query documents created in earlier versions of Tango is `.qry`.

The following describes how to convert your query documents and how the conversion alters query documents in creating an application file.



Note The data source names used in your 2.x documents are not retained. After conversion, the name of each data source will be the same as the database it connects to.

To convert query documents to application files

You can also drag a query document onto the Tango Editor icon on your desktop. Tango Editor automatically opens and starts the conversion process.

- 1 Open Tango Editor.
- 2 From the **File** menu, choose **Open**.
The Open dialog box appears.
- 3 Locate and select the query document you want to convert.
- 4 Click **OK**.

A message appears asking if you want Tango Editor to create an application file with the same functionality.



- 5 Click **OK** to continue, or click **Cancel** to cancel.



Note Converting a query document to an application file does not alter the original query document.

An application file window opens displaying the new application file with the same name as the query document and the Tango application file (`.taf`) extension.

The conversion takes query document objects—actions, variable assignment attributes, meta tags, and global variables—and converts them to Tango 3.0 objects as follows:

- All occurrences of “.qry” are changed to “.taf”.
- Stop actions become Return actions.
- Variable assignment—previously an attribute of an action—becomes a separate Assign action.
- Branch actions become If/Branch action pairs.
- Assignments to doc\$results become <@PURGERESULTS>; <@GLOBAL doc\$results> become <@RESULTS>.
- The functionality of many previous meta tags has been enhanced. Tango takes care of the conversion to Tango 3.0 meta tags. The names of many of the previous meta tags have not changed, but the functionality of those meta tags has changed significantly.

For more information on Tango 3.0 meta tags, see the *Meta Tags and Configuration Variables* manual.

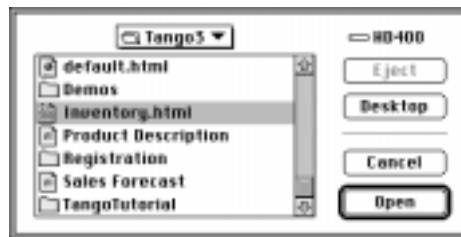
Converting Text Files

If you have used the Tango 2.x <@INCLUDE> meta tag to include files containing Tango meta tags, use Tango Editor’s **Convert Text File** command to convert those files.

- 1 From the **File** menu, choose **Convert Text File**.

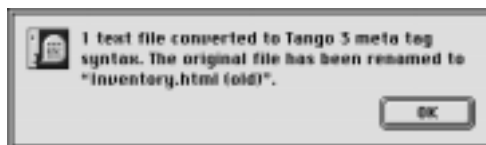
The Convert Text File selector appears.

- 2 Select the HTML or text file you want to convert.



- 3 Click **Open**.

The selected file is converted to the Tango 3 meta tag syntax and the original file is appended with (old).



Using Converted Application Files

In general, converted application files should work as they did under Tango 2.x. However, some new features have made a few differences unavoidable.

This section lists those differences and suggests application file changes to compensate for them.

Direct DBMS SQL Auto-Encoding

A new Tango Server feature automatically escapes single quotes in meta tag values substituted in Direct DBMS SQL. For example, if a variable called `myName` contains “O’Brien”, then

```
SELECT * FROM customer WHERE cust_name = '<@VAR  
NAME=myName>'
```

now results in:

```
SELECT * FROM customer WHERE cust_name = 'O''Brien'
```

In previous versions of Tango, the result was:

```
SELECT * FROM customer WHERE cust_name = 'O'Brien'
```

and a DBMS error resulted due to the unescaped quote.

In most cases, this new behavior does not adversely affect converted application files; however, there is one case in which it does. If your Direct DBMS SQL contains meta tags that evaluate to an entire (or partial) SQL statement constructed elsewhere, the quote-doubling may cause DBMS errors. This is because all single quotes are doubled, even those meant to delimit a string. In this case, the solution is to modify the meta tag(s) returning your SQL by adding the `ENCODING=none` attribute. For example:

```
<@VAR NAME=mysql ENCODING=none>
```

Variable Scoping

Tango 3.0 supports various variable scopes. All global references in 2.x query documents are converted to unscoped variable references. By default, assignments to non-existent unscoped variables cause a user scope variable to be created (equivalent to a 2.x user global). When getting the value of an unscoped variable, Tango starts looking for the variable in local scope and moves on up to system scope until it is found.

In short, variables in your converted documents will work as they always did. You should, however, consider modifying variable references in cases where other scopes (local, for example) are more appropriate. Doing so results in improved Tango Server performance and reduced memory requirements.

Assignments to System Configuration Variable

If you have query documents that assign to system configuration variables, you must make changes to the converted application file for them to work under Tango 3.0.

For information on how to change configuration variables, see “Configuring Tango Server” on page 16.

In Tango 3.0, a password is required to assign to system configuration variables (the old *system globals*). The password is specified by the `CONFIGPASSWD=` line in the Tango 3 Server Preferences file. The default value of this password is the first five characters of your Tango box number. When Tango Server encounters an assignment to a system configuration variable, it checks to see if there is a user scope variable called `configPasswd` whose value contains the same value as the one in the Tango preferences file. If so, the assignment is allowed; if not, an error occurs.

To make assignments to system configuration variables in converted documents work, make sure you add an assignment to `user$configPasswd`, which sets it to the correct value. Another (not secure and not recommended) option is to set the value of `CONFIGPASSWD=` in the Tango preferences file value to empty.

Executing a Tango Application File

Using the Plug-in

Application files are executed in the same way HTML files are viewed—simply by specifying the name of the file in a URL, for example,

```
http://www.yourserver.com/shop/additem.taf
```

This example executes an application file called `additem.taf` located in the `shop` folder on the server, `www.yourserver.com`.

Using the CGI

If you are using the Tango CGI instead of the plug-in, type the following in the URL line, replacing each italicized part with the actual information:

```
http://www.yourserver.com/tango3.cgi$/path to application file/yourfile.taf
```

Passing Parameters

You can pass parameters to the application file by using *search* arguments. These are name-value pairs appearing after a question mark in the URL, for example,

```
http://www.yourserver.com/shop/additem.taf?item_num=8580
```

In this example, the `item_num` search argument has a value of “8580”.

See “Assigning Variables With the Assign Action” in Chapter 7 of the *User’s Guide*.

There are other ways of passing values to Tango application files. *Form* fields (post arguments) and *cookies* are two examples.

Getting Help

Technical Support

In addition to the information available in the printed and online documentation, you can also get technical help with Tango.

Technical support requirements can differ among customers. For this reason, there are various support options available to meet your needs. Get in touch with your local distributor for more information about technical support contracts.

Tango-Talk

Users are encouraged to join the Internet mailing list named *Tango-Talk*. The mailing list is the ideal place to discuss your ideas with other interested Tango users. It is also monitored by EveryWare technical support staff.

To join the Tango-Talk mailing list, go to:

http://www.everyware.com/customer_services/support/dev_forum.htm

Other Inquiries

You can get in touch with EveryWare by mail, telephone, or fax.

EveryWare Development Inc.
6733 Mississauga Road, 7th Floor
Mississauga, Ontario
Canada L5N 6J5

Telephone: (905) 819-1173

Toll Free: 1 888 819-2500

Fax: (905) 819-1172

Email: info@everyware.com

Web: <http://www.everyware.com/>