A Fifteen Minute Guide To Installing WebLink

The commonest evaluation platform for WebLink and the commonest "out of the box" experience is the following configuration:

Don' Forget do do a restart of the Server after installing Weblink

- A desktop or laptop PC running Windows 95, 98, NT 4.1, 2000 or XP Professional
- Caché 3.1 or greater installed and running
- Microsoft's Personal Web Server (for Win 95/98), Peer Web Services (NT Workstation) or IIS (NT Server/2000/XP Professional)

This document assumes that the first thing you did was install the web server. If you installed the web server using the normal defaults, you should have a directory named either "C:\WebShare" (Win95) or "C:\InetPub (Win98/NT/2000/XP) (of course you may have these on another drive)

If you then installed Caché using the normal defaults, you'll have a directory C:\cachesys (or maybe it's on another drive)

What follows is a quick guide to getting WebLink installed and up and running on such a configuration. If your web server and Caché server are physically separate machines, then this guide is NOT for you – see the more detailed documentation that comes with the WebLink distribution kit. If you used different directory paths for your installs, simply modify the instructions below to reflect those differences.

Note: you may use these instructions to reinstall or upgrade WebLink. If you've been having problems with WebLink (eg after installing Caché for the first time from the distribution CD), there's no need to un-install anything. Just follow the instructions below.

The steps are as follows:

1. Download the latest version of WebLink from the InterSystems web site. The URL is pretty well hidden these days, so use the handy link at http://www.mgateway.tzo.com. Select the hyperlink "WebLink and WebLink Developer" (you'll find this under the heading "Web Technology)", and a window will pop up offering you all the distribution options. Scroll towards the bottom of the list and you'll see the section titled "Caché WebLink Beta Release". Select "Version 4.30.604.371 for Windows NT/95/98/2000" (or whatever is the latest version for Windows platforms).

2. You'll have to register to download it – on subsequent visits from the same browser it will remember your user ID

3. While you are at it, download the latest version of WebLink Developer via the same URL and pop-up window. Scroll all the way to the bottom of the window and you'll find the section titled "Caché WebLink Developer". You should download "Patch 6b for Version 4.3" or whatever the latest version is.

4. OK – you now have all the stuff you need. The next step is to install WebLink.

5. If you already have an earlier version of WebLink installed, it's a good idea to stop and restart your Web Server, otherwise you'll find it impossible to copy one of the files. With PWS you may need to do a system reboot before continuing.

6. WebLink's components are in the zip file you downloaded – mgnt604a.zip at the time of writing (if you downloaded a later version, the build number will be different). Use WinZip or similar (**but don't use PKUNZIP**!) and look at the contents from its main window)

7. You now need to copy some files to the correct directories as follows. It's important you take note of the path shown in the Winzip window – the zip file has versions of the components for all sorts of platforms, so you must choose the right ones!

8. Find **mgwms32.dll** – with the path WebLink\i386. Copy this your webserver's \InetPub\scripts (or \WebShare\scripts) path.

9. Next, find, in the zip file, **mgw.class** and **mgw.jar** – with the path \WebLink\java. Copy these into your webserver's \InetPub\wwwroot (or \WebShare\wwwroot) path.

10. That's the web server components done !

11. Now we need the Caché routines. Find, in the zip file, the file **mgw.ro** (path \WebLink\scripts). Copy this file into your \cachesys\mgr\cachelib path.

12. Next you'll need the file **mgw1.ro**. This is the tricky part – there's a version of this for every version of Caché (eg for Caché 3 systems, use the version that's in the zip file's \WebLink\scripts\cache3\ path*). **However, if you are using Caché 4.0.x or 4.1.x systems, use the mgw1.ro file for Caché 3**! If you are running Caché 4.2/5.x, use the Caché 4 version. Copy the appropriate version of the mgw1.ro file into your \cachesys\mgr\cachelib path

13. Now fire up a Caché terminal session and do the following (you type the bits shown in bold; {Enter} means press the Enter key):

```
%SYS> zn "%CACHELIB"{Enter}
%CACHELIB> D ^%RI{Enter}
Input routines from sequential
Device: mgw.ro{Enter}                    Parameters: "R"=> {Enter}
```

Files written Caché for Windows NT using %RO on xxxxxxxxx
With extension INT and with description:
Caché WebLink Version xxxxxxxx

(All Select Enter List Quit)

Routine Input Option: **A{Enter}**

If a selected routine has the same name as one already on file,
Shall it replace the one on file? No => **Y{Enter}**
Recompile? Yes => **{Enter}**
Display Syntax Errors? Yes => **N{Enter}**

The WebLink routines will now be installed on your Caché server.

14. Just one more file to go. Do the following in your Caché terminal session:

%CACHELIB> **D ^%RIMF{Enter}**

Load routines from a %ROMF file.

WARNING: This routine will delete the source code (if any)
    For existing M routines that are being replaced.

Device: **mgw1.ro{Enter}**
    file format: ("UR") => **{Enter}**

M/UX wrote this file on xxxxxxxxxxxxxxxx
File Comment: Cache WebLink Version xxxxxxxxxxxx

(All Select Enter List Quit)

Routine Input Option: **A{Enter}**

If a selected routine has the same name as one already on file,
Shall it replace the one on file? No => **Y{Enter}**

The routine ^%mgw1 will then be installed for you.

15. If you are using Windows 2000 or XP, and this is a first install of WebLink (or the first time you've tried to get it working!) , there's just one more vital step. There are two files used by WebLink (***mgw.ini*** in the Windows directory and ***mwg.log*** in the Windows\system32 directory) that must be created, and configured with the correct security privileges. A straightforward way to do this is to use Notepad to create blank
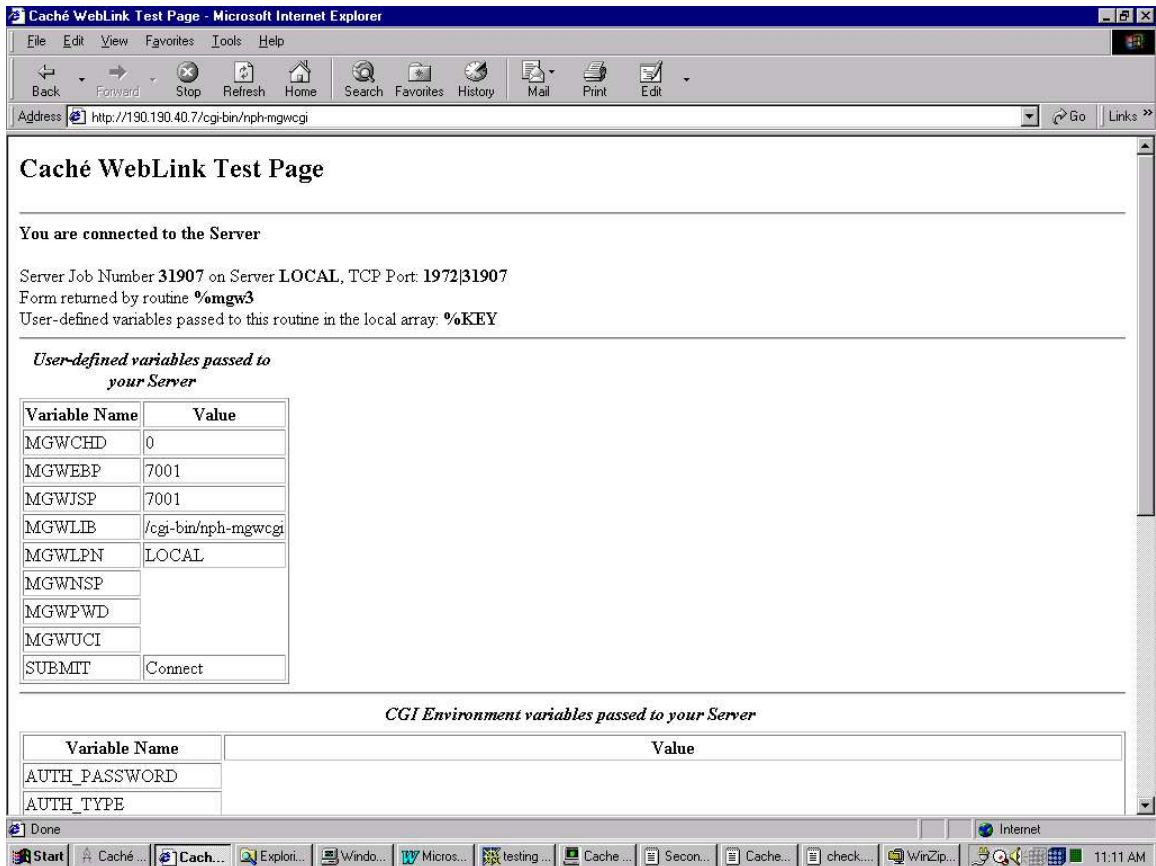
mgw.ini and ***mgw.log*** files in the proper directories. Change the security to total control for all users. Here's how to do this in Windows XP:

- When you've created your empty mgw.ini file in the \Windows directory, use Windows Explorer and find the mgw.ini file with it
- Select Explorer's menu option "Tools/Folder Options…"
- Select the View tab and in the Advanced Settings window, scroll to the end and uncheck the option "Use Simple File Sharing (recommended)"
- Click the "Apply" button, then the "OK" button.
- Now right-click on the mgw.ini file and select "Properties". Select the "Security" tab
- Highlight the user "Everyone" and in the "Permissions for Everyone" window, check the "Allow" box next to the option "Full Control". Click the "Apply" button, then the "OK" button.
- Note that the security tab will now be available for all your files when you view their properties.

16. OK. Everything is now ready to go. Restart your web server (if necessary) and fire up your web browser. Enter the following URL:

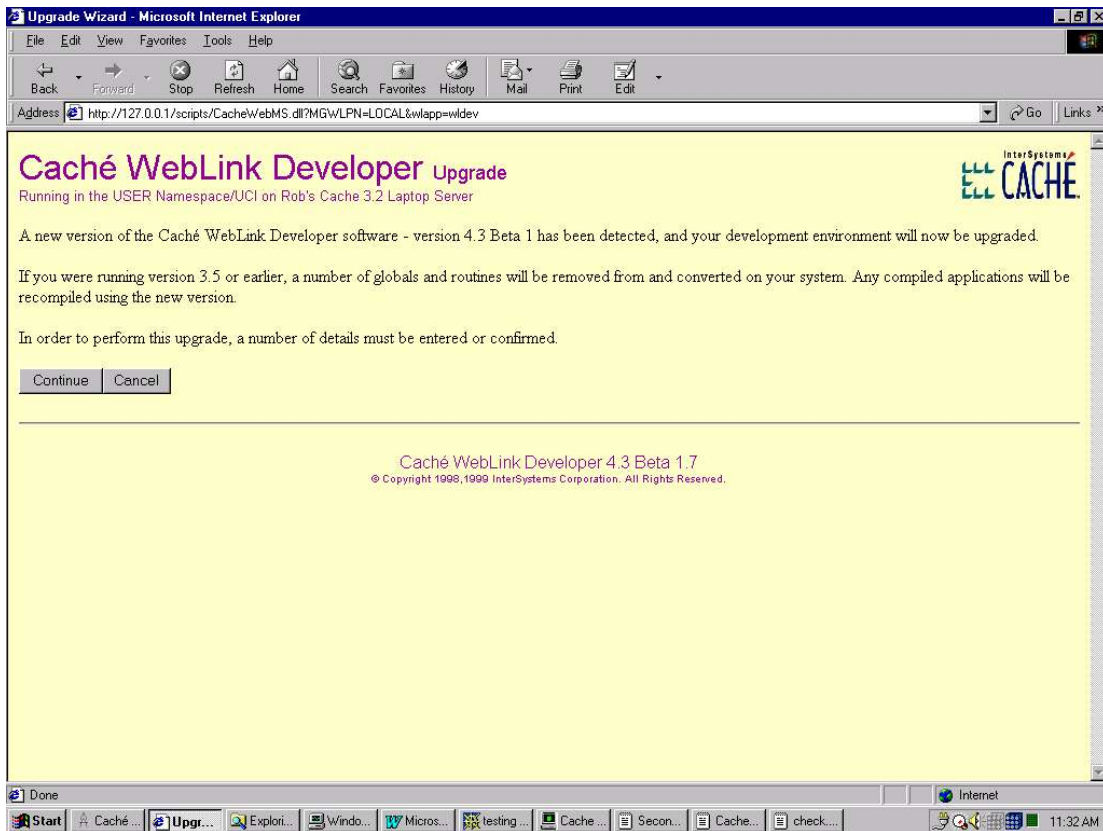   http://127.0.0.1/scripts/mgwms32.dll

17. WebLink's system management page should come up. Select the option "Connect to a server". In the next page, you should see a drop-down list with "LOCAL" showing in it. Click the button marked "Connect". (*If you don't see the LOCAL option, then you have a problem with the file security settings of the mgw.ini file – see section 15 above*). What should happen is there will be a small pause, then a page should come up that looks something like the following:

Caché WebLink Test Page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit

Address http://190.190.40.7/cgi-bin/nph-mgwcgi

Caché WebLink Test Page

You are connected to the Server

Server Job Number **31907** on Server **LOCAL**, TCP Port: **1972|31907**
Form returned by routine **%mgw3**
User-defined variables passed to this routine in the local array: **%KEY**

User-defined variables passed to your Server

Variable Name	Value
MGWCHD	0
MGWEBP	7001
MGWJSP	7001
MGWLIB	/cgi-bin/nph-mgwcgi
MGWLPN	LOCAL
MGWNSP	
MGWPWD	
MGWUCI	
SUBMIT	Connect

CGI Environment variables passed to your Server

Variable Name	Value
AUTH_PASSWORD	
AUTH_TYPE	

Done   Internet

Start | Caché... | Cach... | Explori... | Windo... | Micros... | testing ... | Cache ... | Secon... | Cache... | check... | WinZip... | 11:11 AM
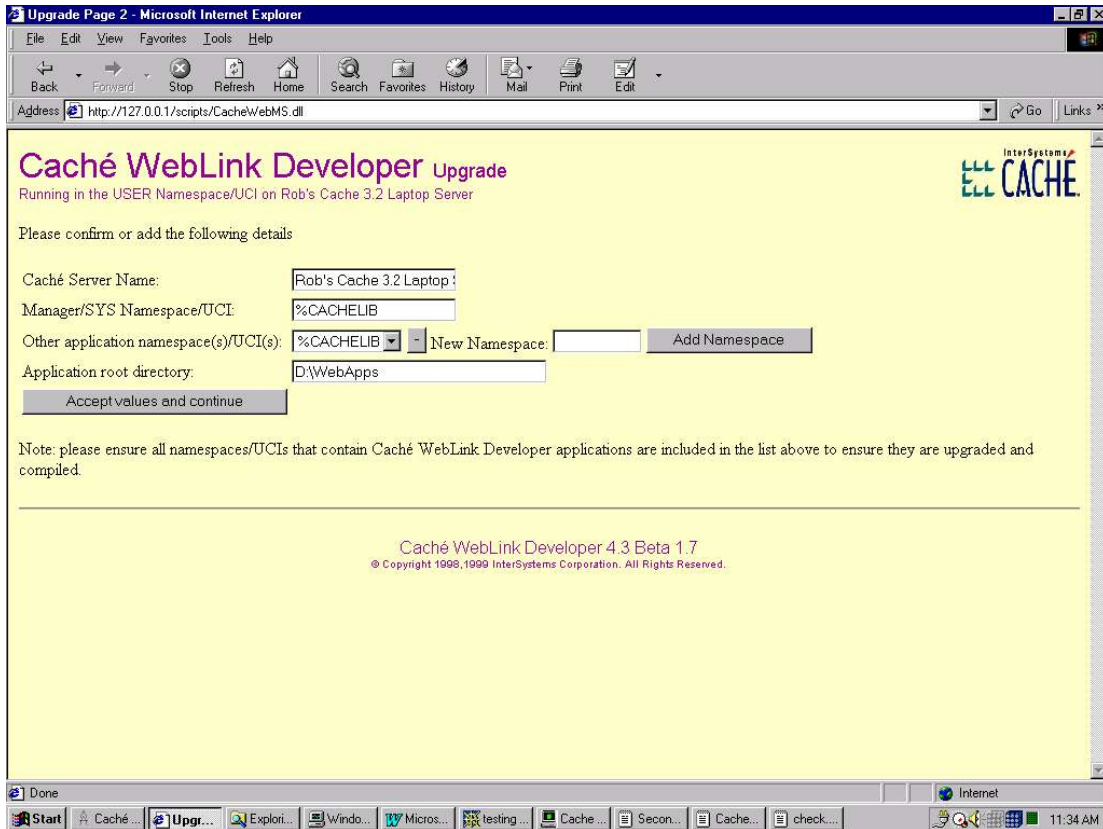
18. If this is what you got, then success ! WebLink is now up and running and communicating properly with Caché. If not, you'll need to look at the WebLink documentation that came with the distribution kit.

19. If you got something like the screen above, now you can get WebLink Developer up and running. In the zip file you downloaded (wld43px.zip where x is the patch number) you'll find a file called readme.doc. Follow the steps described in there to install Developer.

20. OK, that's it. Developer's routines are now installed. Now go back to your browser and enter the URL:
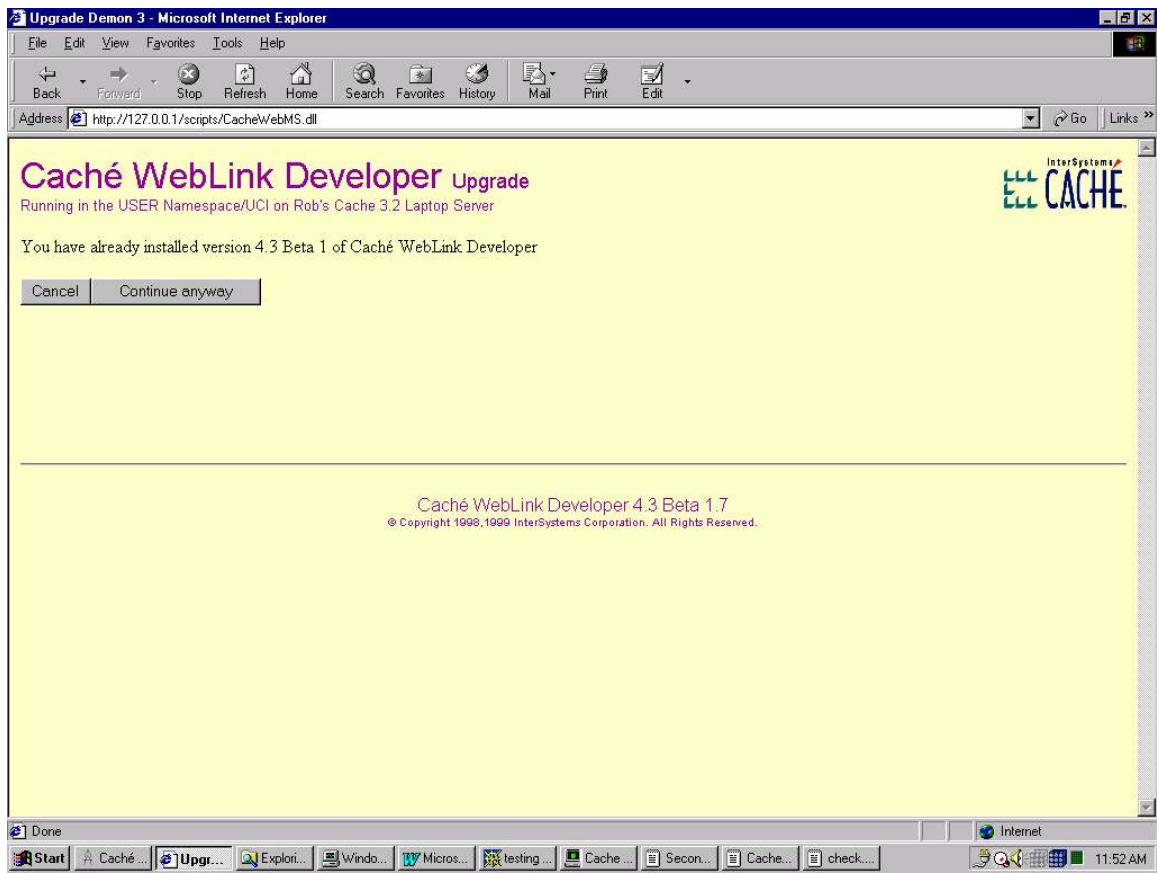
    http://127.0.0.1/scripts/mgwms32.dll?MGWLPN=LOCAL&wlapp=wldev

    If this is the first time you've run Developer then up should come its installation page which looks something like this:
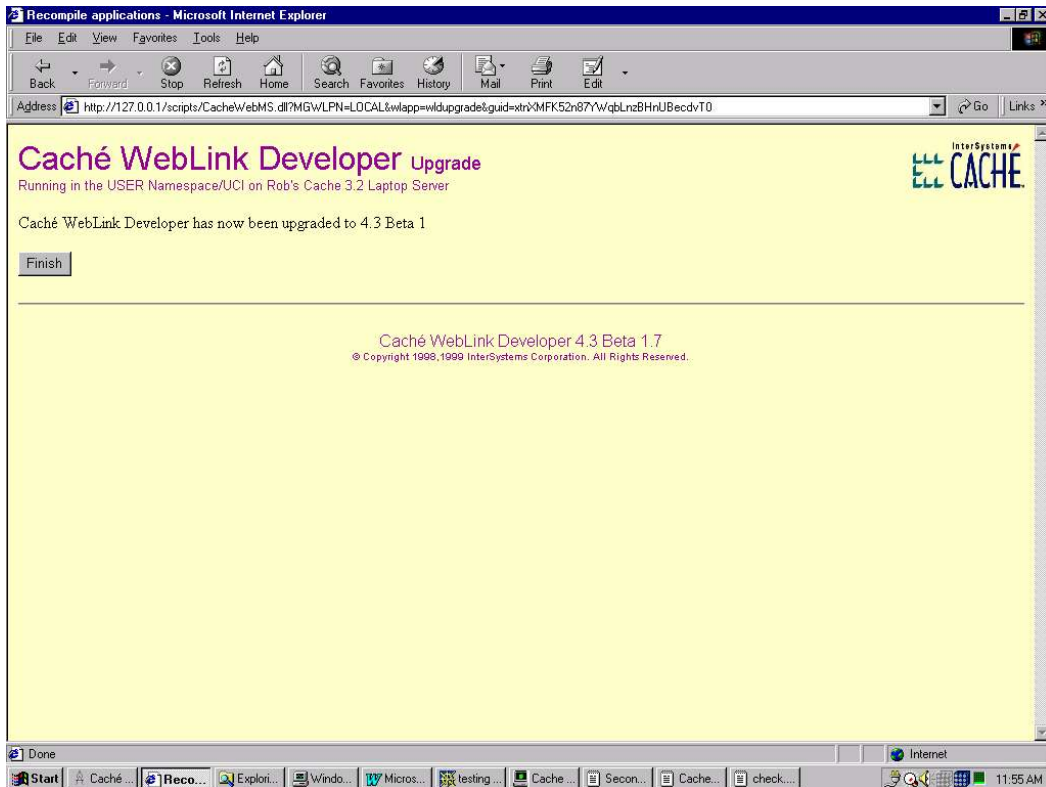
1. Click the "Continue" button and it will move to the next page:

2. Change the "Caché Server Name" field from "New Unamed Caché Server" to something more meaningful.
3. Check that the "Manager/SYS NameSpace/UCI" field is set to "%CACHELIB" – if not, change it.
4. Have a look in the drop-down list of namespaces. There should be two in there automatically: %CACHELIB and USER. Use the "Add Namespace" field to add any others that you want to use.
5. The "Application Root Directory" will be pre-set to "\InetPub\wwwroot". You may want to change this. *The directory you specify must exist* and Developer will expect to find all application source files in subdirectories under this directory. Personally I use "D:\WebApps". If necessary at this point, go into Windows Explorer and create the directory *now*!

6. Now click "Accept Values and Continue". One final confirmation page will appear:

7. Click the "Continue" or "Continue Anyway" button. A series of pages will now appear – don't interrupt them ! Wait till you get the final page:
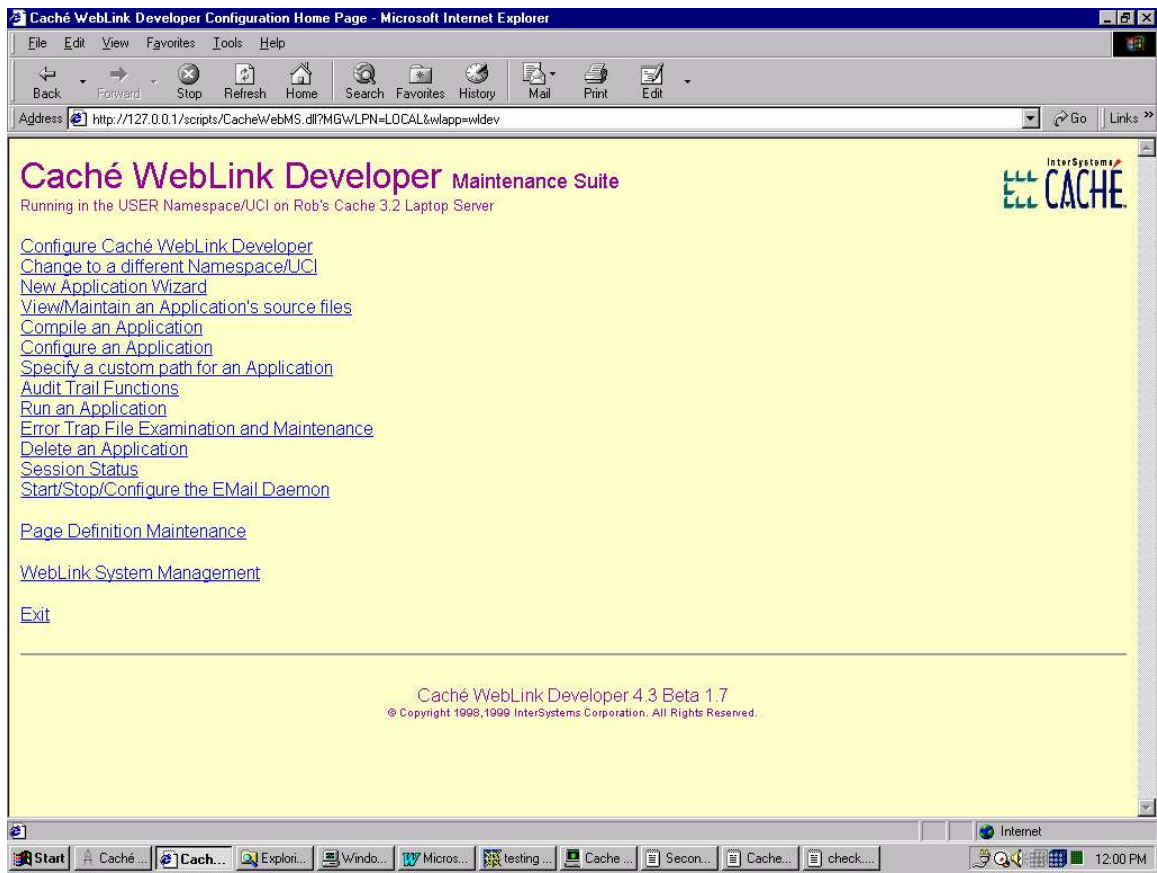
8. Click the "Finish" button and you will be returned to your web server's Home Page (if one has been defined. If not you probably ought to create a file sometime soon called "default.htm" that goes in your \InetPub\wwwroot (or \WebShare\wwwroot) directory.

9. Now try that URL again:

    http://127.0.0.1/scripts/mgwms32.dll?MGWLPN=LOCAL&wlapp=wldev

10. This time Developer's main menu should come up:

Success !! Developer is now installed and ready to run!