

WebUtil Demo - ReadMe

Introduction

This document provides the details for running the WebUtil Demo. The purpose of this demo is to show most of the features included in Webutil. For more details on WebUtil please see the WebUtil launch page on the [Forms OTN](#) page or in the Forms Builder Online Help.

For questions specifically related to this demo, please use the Oracle Technology Network [Forms Forum](#).

Terms of Use

Disclaimer

Except where expressly provided otherwise, the site, and all content provided on or through the site, are provided on an "as is" and "as available" basis. Oracle expressly disclaims all warranties of any kind, whether express or implied, including, but not limited to, the implied warranties of merchantability, fitness for a particular purpose and non-infringement with respect to the site and all content provided on or through the site. Oracle makes no warranty that: (a) the site or content will meet your requirements; (b) the site will be available on an uninterrupted, timely, secure, or error-free basis; (c) the results that may be obtained from the use of the site or any content provided on or through the site will be accurate or reliable; or (d) the quality of any content purchased or obtained by you on or through the site will meet your expectations.

Any content accessed, downloaded or otherwise obtained on or through the use of the site is used at your own discretion and risk. Oracle shall have no responsibility for any damage to your computer system or loss of data that results from the download or use of content.

Oracle reserves the right to make changes or updates to, and monitor the use of, the site and content provided on or through the site at any time without notice.

Limitation of Liability

In no event shall oracle be liable for any direct, indirect, incidental, special or consequential damages, or damages for loss of profits, revenue, data or use, incurred by you or any third party, whether in an action in contract or tort, arising from your access to, or use of, the site or any content provided on or through the site.

Please carefully review the complete "Terms of Use", which covers all software downloaded from the Oracle Technology Network.

[Complete Terms of Use](#)

Set Up

It is assumed that you have a working installation of WebUtil. For details on how to set up WebUtil please see the Forms Builder Online Help. You can also refer to My Oracle Support Note [566628.1](#) or [270940.1](#). You should also have a database connection and have run the appropriate database scripts if you wish to upload or download from/to the database.

Components of this demo

This demo comprises of 4 main files: An FMB (which is the Forms demo), a DLL (used as part of the C API demo), a sql script needed to use the file upload/download to db feature, and a readme file (this file). This demo has been written specifically and tested against the 10.1.2.3 release of WebUtil (Forms 10.1.2.3). It can, however also be used in Forms versions 10.1.2.0.2 or newer.

Setting up the demo

As mentioned above, the full documentation for setting up WebUtil is available in the WebUtil manual, which can be found in the Forms Builder Online Help. However, in the context of this demo you need to do some minor configuration steps.

1. Unzip the zip file into a temporary area on your machine.
2. Copy `webutil_demo.fmb` to a directory which is currently on your FORMS_PATH
3. The demo uses a DLL to show the functionality of the C API. Copy `ffisamp.dll` to the `<ORACLE_HOME>\forms\webutil` directory. The C API demo is not supported for use in a 64bit browser and/or 64bit JRE. In Forms version 11.1.2+, copy to `<ORACLE_HOME>\forms\webutil\win32`
4. Open your `webutil.cfg` file and add the following line
`install.syslib.0.user.1=ffisamp.dll|40960|1.0|true`
5. In the `webutil.cfg` file ensure you have the line
 - o `transfer.appsrv.workAreaRoot=c:\temp`
 - o `transfer.appsrv.accessControl=TRUE`
 - o `transfer.database.enabled=TRUE`
 - o `transfer.appsrv.enabled=TRUE`
6. Create a directory `c:\temp` and a file called `c:\temp\downloaded_from_as.txt`. Ensure you add text to this file. This is a test file which will be used to demonstrate loading files from the application server to the client. The Download test expects this file to exist in this location on the Application Server.
7. To show the uploading to the database, a table needs to be created using the following SQL or the script provided (`wu_fileupload_db_demo.sql`).

```
drop table wu_fileupdown_demo;  
create table wu_fileupdown_demo (blob blob, id number(2));  
insert into wu_fileupdown_demo values (NULL,1);  
commit;  
exit;
```
8. Compile/generate `webutil_demo.fmb` into an FMX. This can be done from within the Forms Builder or the command line. It may be necessary to include the `compile_all=yes` option in order to ensure the form runs properly. Run the form using the WebUtil config section. For example,

`http://server:port/forms/frmservlet?form=webutil_demo&config=webutil`

Running the Demo

The demo consists of a simple form containing a number of tabs. Each tab exercises different areas of WebUtil.

Client Info

Client Info will display information about the client machine; including Host Name, User Name, IP Address to name a few. Press the **Get Client Info** button to populate the fields.

Webutil Demo Form

Client Info | Builtins | Files | OLE | Upload | Download | Browser | Host | C API | About

Host name Path separator

User name File Separator

IP address Language

Operating System Timezone

Java Version Date/time

Get Client Info

Exit

BuiltIns

BuiltIns will exercise functions to show a file selection dialog, read a client side image file, display the NLS settings (if set on the client machine) and to use client side Text_IO to write data out to a file.

Read Image File

Click the ... button to select a GIF file from the client machine hard drive and then press **Read Image** to load the image from the client and display in the image field on the form.

Webutil Demo Form

Client Info | Builtins | Files | OLE | Upload | Download | Browser | Host | C API | About

...

Read Image

Image :

NLS_LANG

Write to C:\Documents and Settings\mferranthe\world.bt

Write

Exit

NLS_LANG

Click the **NLS_LANG** button to read the `HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE` NLS setting from client registry. The value may also be reported from the system's environment settings if one has been configured. Note that this call is a direct mapping to the client/server version. If you need to read the NLS LANG variable you should consider another function call since you would probably not have an Oracle registry branch installed on the client machine.

Text_IO

Enter some text into the field at the bottom of the screen and press the **Write** button to write the file to the client side `user.home\helloworld.txt` file.

Files

The Files test will exercise many of the WebUtil features for file manipulation.

List Root Directories

Pressing **List Root Directories** will display a list of the all the current root directories on the client machine.

Files in user.home

Pressing **Files in user.home** will display the files in this directory. Note that the directory name is displayed at the top of the page.

Copy File

Pressing **Copy File** will copy a file called `helloworld.txt` in `user.home` to `user.home\copy of helloworld.txt`. Note that this file is created when you perform the Write test in the Builtins tab. If the file exists, the list of files in `user.home` will show the new file. If the file does not exists a message will displayed saying the copy failed.

Delete File

Pressing **Delete File** will delete a file `user.home\copy of helloworld.txt`. Note that this file is created when you perform a successful Copy File as indicated above. If the file exists, it is deleted and removed from the list of files. If the delete fails a message is displayed.

File Open

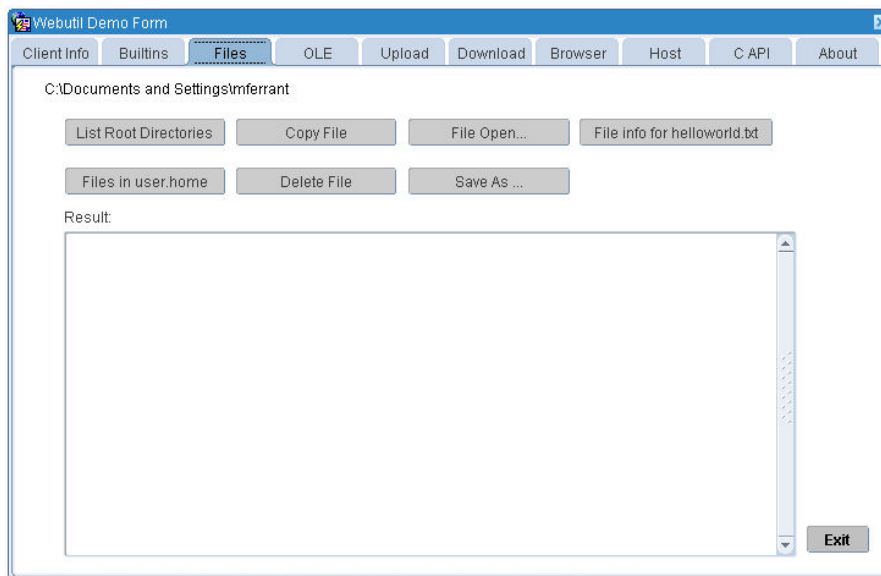
Pressing **File Open** will display a file selection dialog. Selecting a file and pressing Open will display the filename in the Results field.

Save As

Pressing **File Save** will display a file save dialog. Selecting a file and pressing Save will display the filename in the Results field.

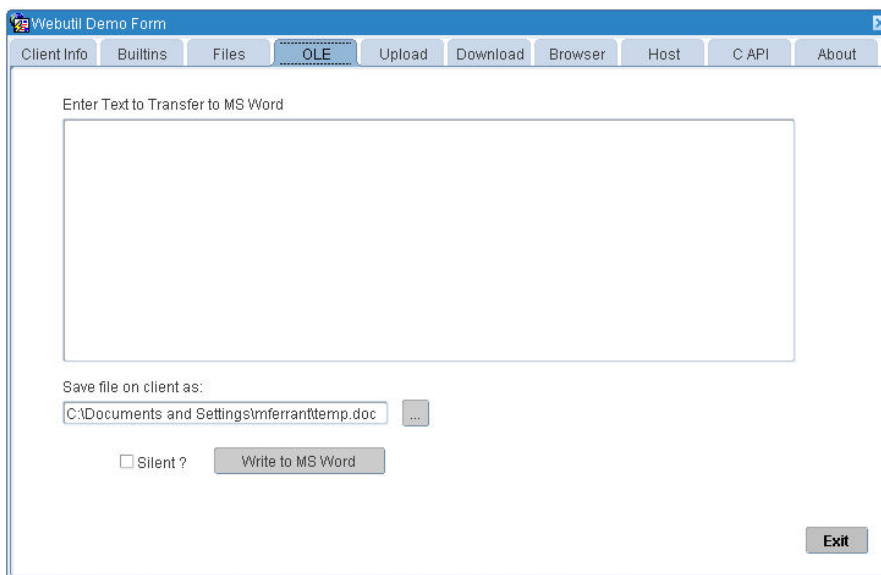
Info on user.home\helloworld.txt

Pressing **Info on user.home\helloworld.txt** will display file information on the `helloworld.txt` file, including its size, and whether it is readable or writable.



OLE

This test requires that Microsoft Word be installed on the client machine. The OLE test will perform some simple client side OLE manipulation. Enter some text in the main text area and select a filename by pressing the ... button. Now press the **Write to MS Word** button and WebUtil will write the text out to a file on the client machine as a Word document.



Upload

The Upload test shows how you can upload a file from the client machine to the application server or the database. The demo (both the form and sql script) has been designed to only permit one record to be stored. This can be easily changed to accommodate the needs of a production deployment.

Be sure to check the permissions settings in webutil.cfg as mentioned in step 5 of the Setup instructions above.


Upload to DB

First, select a client side file by pressing the ... button. Once the file has been selected, press the **Upload to DB** button. This will upload the selected file to the database in a table called WU_FILEUPDOWN_DEMO, column name BLOB and an ID of 1. If successfully uploaded, the cursor will be moved to the File Download tab.

If the Upload to DB button is disabled it means the required table used by this demo was not found. The Create Table button should be visible and enabled. You can use this to create the needed table by clicking the button. If you prefer to create the table manually, exit the form and run script mentioned in step 7 of the Setup instructions above.

Upload to AS

Select a client side file by pressing the ... button. Once the file has been selected, press the **Upload to AS** button. This will upload the selected file to `c:\temp\<filename>` on the application server. If successfully uploaded, the cursor will be moved to the File Download tab.



The screenshot shows a web application window titled "Webutil Demo Form". It has a menu bar with tabs: Client Info, Builtins, Files, OLE, Upload (selected), Download, Browser, Host, C API, and About. The main content area is titled "FILE UPLOAD". It contains a text input field labeled "Client Side Filename:" with a browse button "...". Below this are two buttons: "Upload to DB" and "Upload to AS". A large black arrow points upwards towards these buttons. At the bottom, there is a "NOTE:" section with text: "File Upload and Download requires that the wu_fileupload_db_demo.sql demo script be executed before running this form. The Upload to DB and Download to DB buttons will be disabled if the needed table is not found." Below the note is a "Create Table" button. In the bottom right corner, there is an "Exit" button.

Download

Download will demonstrate how you can download a file from the application server or the database, onto the client machine.

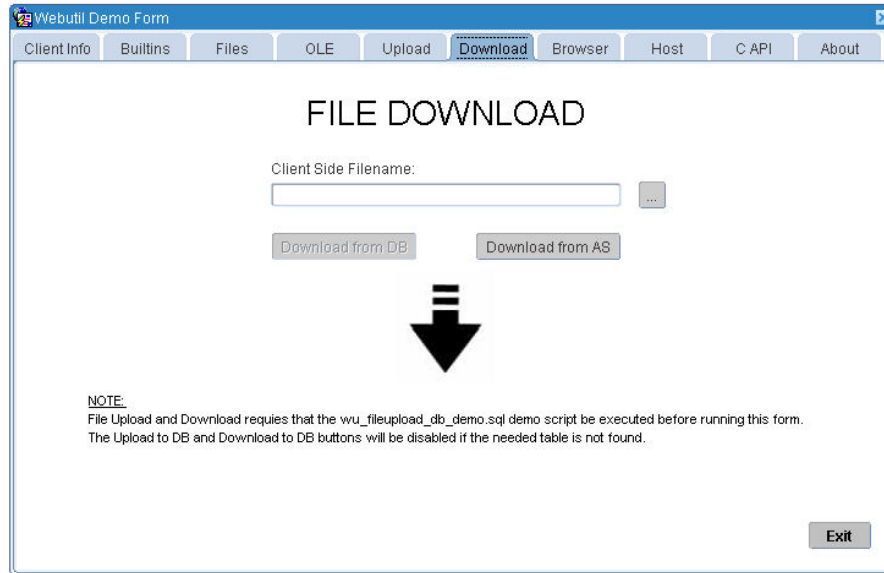
Download from DB

First, select a filename by pressing the ... button. This will define the client filename to which the file is downloaded from the database. Now press the **Download from DB** button. This will download a file from the WU_FILEUPDOWN_DEMO onto the client machine.

Download from AS

Select a filename by pressing the ... button. This will define the client filename to which the file is downloaded from the application sever. Now press the **Download from AS** button. This will

download a file called `c:\temp\downloaded_from_as.txt` from the application server on the client.



Browser

Selecting the Browser tag will allow you to test various features of WebUtil related to the browser.

Set Browser Message

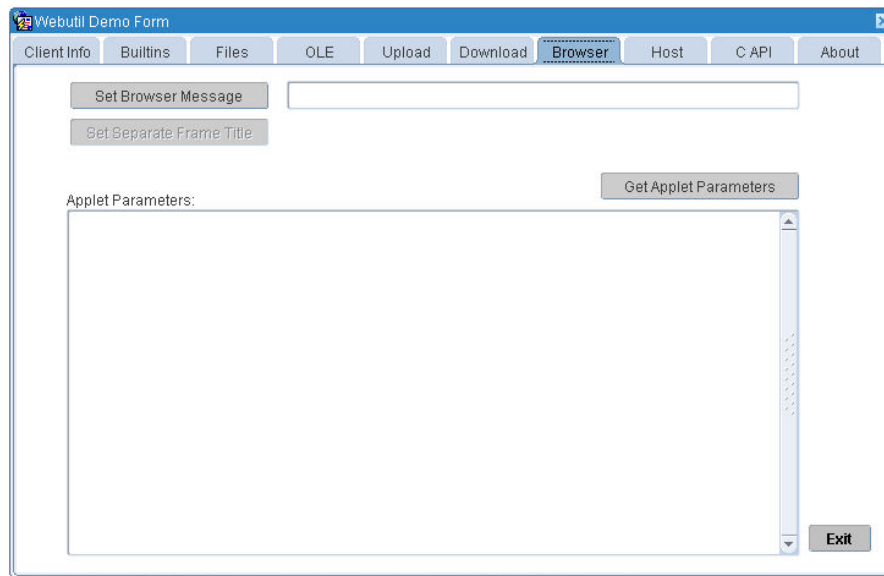
Pressing the **Set Browser Message** button will display information on the browser status line.

Set Separate Frame Title

The **Set Separate Frame Title** button is only available when the HTML parameter `<separateFrame>` is set to true. This will change the title of the separate window frame.

Get Applet Parameters

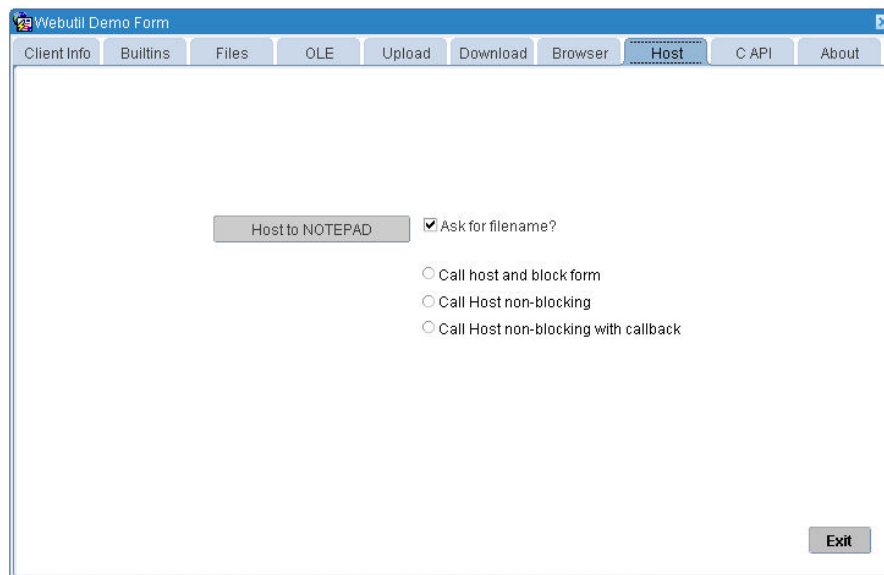
Press the **Get Applet Parameters** button to display various parameters from the browser's *applet* tag. This current demo will show the values for `<lookAndFeel>`, `<colorScheme>`, `<separateFrame>` and applet width and height.



Host

The Host test will use Notepad on the client machine to show how client side Host commands can be run using WebUtil. This test includes a number of options. You can define that when Notepad is run it will open a file. Do this by checking the **Ask for Filename** checkbox. You can also define how the host command is run by checking one of the radio buttons. You can run Notepad and block the processing of the current form OR run Notepad and still allow access to the current form OR you can run Notepad without blocking the form and also call a trigger when Notepad is closed. Choosing the final option will display a message on the Forms status line.

Press the **Host to Notepad** button to the run the test.



C API

Be sure to review the following [My Oracle Support](#) document regarding calling C APIs:

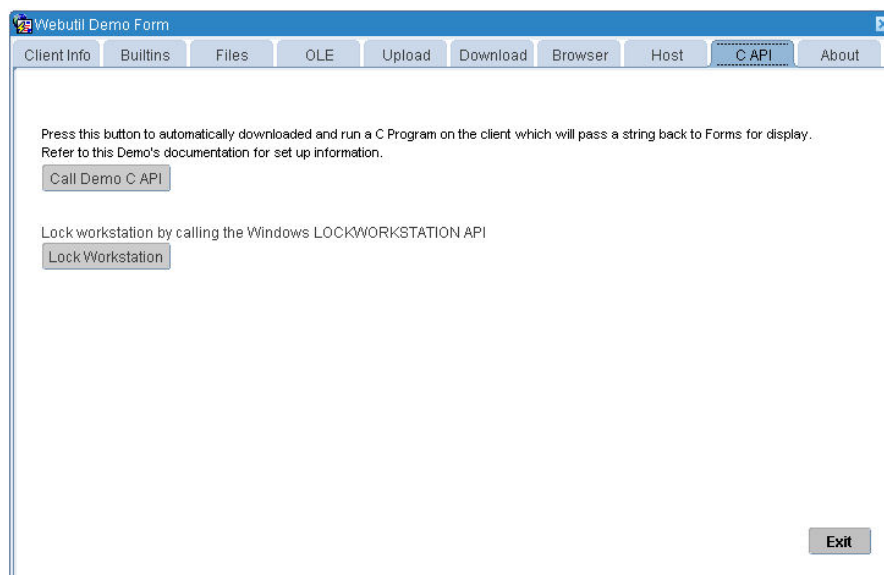
Doc ID: [285331.1](#) - *"Exception When Calling PASCAL style Function Via WebUTIL_C_API"*

Call Demo C API

The C API demo is not supported when run in a 64bit browser and/or with a 64bit JRE.

The C API test shows how you can execute a client side DLL from a form using WebUtil. This test comprises of a DLL which WebUtil automatically downloads to the client and the code is executed on the client machine and the results passed back to Forms. Press the **Call Demo C API** button. If run successfully, the form will display an alert with the message "The New value for String is: A Fixed string from within the C Program". Pressing OK will display a message "New Length 40".

This test shows that a string passed to the C program on the client is being changed by the C program. The form then displays the new message and the length of the message.

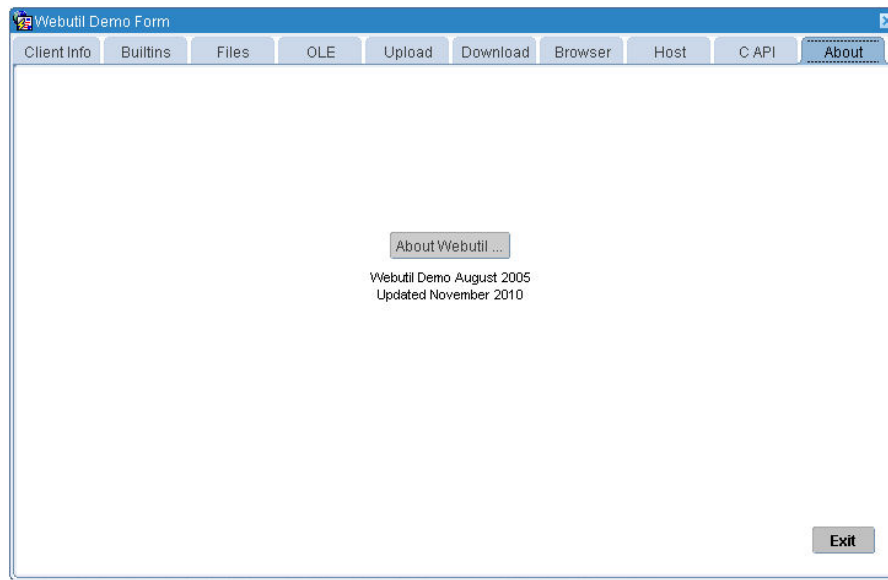


Lock Workstation

The Lock Workstation test shows how some Windows APIs can be called to perform some common Windows tasks. It should be noted that it is not recommended that Windows APIs which require parameters to be passed in be used with this WebUtil function. It is also not recommended that any APIs be called repeatedly (i.e. in a loop) as this may result in a memory leak or the appearance of one. Simple calls such as locking the workstation or logging off do not require parameters nor would they generally be called more than one time per Forms session. Special care should be used when calling any Windows API as improper use can causes system instability. Be sure to thoroughly test your application before moving to a production environment. Press the **Lock Workstation** button to cause the computer to lock out the current user. The OS user password will be required to regain access. This call may fail if the current OS user has not previously set a password.

About

This tab will display information about WebUtil.



Note also, that when you exit the demo, you will be redirected to the Oracle Technology Network. This is again showing a feature of the WebUtil.

Known Issues

1. File upload/download: Boiler plate text may change in size when entering text field or clicking on any buttons of the Upload or Download tabs.
2. File upload/download: Bug 6050853 - No records found but error returned says, "WUT-113: Too many rows". Problem resulting from error in create_webutil_db.sql script. Problem and solution discussed in bug text.