C•ncur®

Web Test Utility
User Guide

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Section 1: Introduction

Web Test is a Windows command-line utility that Concur created to make it easier to test code against our APIs. It provides several benefits including proper encoding of credentials, basic scripting capabilities, and color-coded responses.

This utility currently runs on Windows and requires .Net Framework 3.5 to run.

Section 2: Processes

Installation

Web Test is a Windows command-line utility. The installation process consists of extracting the zip file into your preferred location on your computer.

▸ *To install Webtest:*

1. Download the Webtest zip file from https://developer.concur.com/api-documentation/sample-code

2. Right click the zip file and choose **Extract All**.

3. Select the location on your computer to create the folder. For ease of use, the folder can be created in the C:\ folder.

4. Click **Extract**. The webtest utility is now installed.

Using Web Test

Web Test is accessed using the Windows command prompt. To use it, specify the name of the EXE file and optional command-line parameters.

▸ *To open the Windows command prompt:*

1. Select the **Start** button.

2. In the **Search Programs and Files** text box, enter **cmd**.

3. Select cmd.exe.

Web Test Options

To learn about usage options and examples, call the EXE with no command-line parameters. The following examples assume that you installed webtest in the C:\ folder:

```
C:\webtest\webtest.exe
```

If you wanted to simply fetch a web page, without doing any authentication, you could type:

```
C:\webtest\webtest.exe http://www.google.com
```

If you wanted to execute a Web Test script file, you would specify the path to the script file like this:

```
C:\webtest\webtest.exe {path to script file}
```

NOTE: To copy text from the command prompt, right click anywhere on the window and select **Edit** > **Mark**. Select the desired text. Press **Ctrl+C** to copy.

Creating a Web Test Script

A Web Test script is a plain text file that represents a fully formed HTTP request. You can create the script file in the text editor of your choice.

- The first line of the script is the HTTP request line, which includes the HTTP method, URL and HTTP version.
- On the subsequent lines you can specify zero or more HTTP headers, such as Authorization or Content-Type.
- After the request line and optional headers, you must include a blank line, which denotes the end of the header.
- After the blank line, you can include the request body for POST & PUT requests.

The following shows a sample script that will POST an XML request to an endpoint that uses HTTP Basic authorization:

```
POST https://www.yourserver.com/person HTTP/1.1
Authorization: Basic jd@example.com:password

<person>
    <first-name>John</first-name>
    <last-name>Doe</last-name>
</person>
```

Using OAuth

In the Authorization header, specify OAuth followed by the access token:

```
Authorization: OAuth AqBI+ZhpTljqdEpn1yOKIehMe6s=
```

For more details about how to invoke specific endpoints, refer to the tutorials and API documentation at http://developer.concur.com.

Using HTTP BASIC Authorization

In the Authorization header, specify Basic followed by the user name, a colon, and the password in plain text:

```
Authorization: Basic jd@example.com:password
```

Web Test will encode the credentials and send the header to the server as:

```
Authorization: Basic am9objpmb29iYXI=
```