

## What MAC Browsers does UTIPS support?

The only software requirement for using UTIPS is that a user must have a "DOM" enabled browser... DOM stands for the Document Object Model. "The W3C Document Object Model (DOM) is a platform and language neutral interface that allows programs and scripts to dynamically access and update the content, structure, and style of a document".

The W3C DOM, provides a more versatile way of looking at the structure of HTML documents (including XML and other document formats). It views HTML documents as a tree structure of elements. DOM is designed to interact with more programming languages than just JavaScript, and is generally accepted as the present and future standard of browsers. W3C DOM is supported by the following **PC / Windows / Linux browsers**:

- Internet Explorer 5+
- Mozilla Gecko (Netscape 6+ or higher)
- Mozilla FireFox
- Opera 7+
- KHTML (Konqueror 2+, Safari, OmniWeb 4.5+)
- ICEbrowser
- iCab (passive only)
- Netgem 4 browser (NetBox)
- OpenTV
- iPanel MicroBrowser with advanced modules

Internet Explorer 5.2.3 for Mac OS X , released 6/16/2003 - was the last official Microsoft release of IE, and Microsoft announced that it would not have full DOM support. ( <http://www.quirksmode.org/browsers/explorer5mac.html> ) Note the paragraph: "*Be warned that Explorer 5 on Mac is a different browser than Explorer 5 on Windows... It also has its very own bugs that don't appear on the Windows version.*"

Mac OS X-works well with:

- Safari 1.2.3
- FireFox 0.9.3
- Netscape 7.2.

Mac OS 9-works well with:

- Netscape 7.02
- Mozilla 1.3b

This page from the Mac Developers site, mid way down the page, gives some examples ( <http://developer.apple.com/internet/ebcontent/dom2ii.html> ) of how DOM allows the user to change components of the page, like table color & size "on-the-fly"...

## Introduction

Access to the Internet has gone from a luxury to a necessity in education today. This has resulted in a tremendous increase in Internet traffic. One costly solution is to just keep adding more bandwidth. However, quite often the information being transferred is redundant. For example, a lab of students may all access the same web page. Caching web pages preserves limited bandwidth by reducing the number of duplicate requests sent out to the internet.

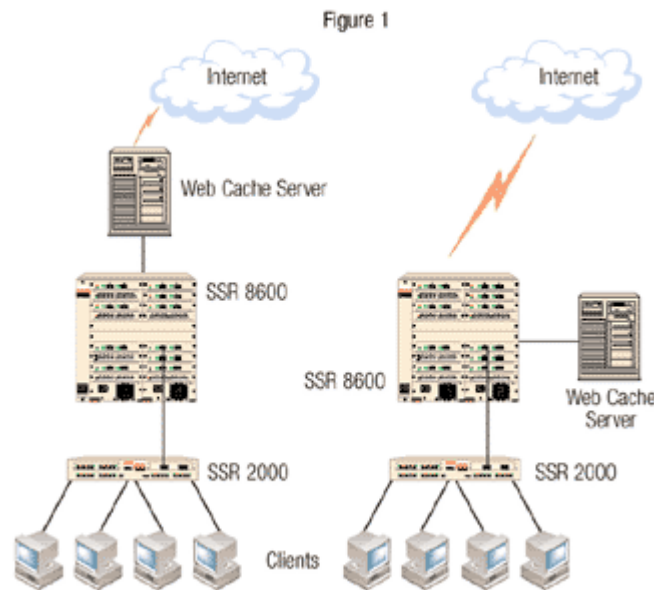
## Quick Overview of Cache Server Types

A Web Cache Server resides either directly in the path to the Internet, monitoring all traffic; or to the side with only HTTP traffic redirected to it (see Figure 1).

When a Cache Server sees the first request, it sends the request to the web site, and caches the reply in its memory.

The next time the Cache Server sees the same request, it traps the request and responds to the client with the information stored in memory... appearing to the student as though it came from the requested web page.

There are also instances when a proxy server is used to redirect any internet requests to a port address other than 80 (normal web browsing traffic) to the Web Cache Server. In either case, by reducing duplicate web traffic, there is an immediate improvement in the available bandwidth.



While the UTIPS development team has made every reasonable attempt to minimize the effects of “caching” on individual test taking and results delivery, we strongly advise administrators to have their IT staff to simply bypass any caching / proxy servers where internet traffic is to/from:

## “ \*.utips.org ” and/or IP address 205.119.127.100

- If you are using Volera you will need to go and add a bypass in the “pin list” for these two entries. Please note the “\*” wildcard is necessary for test taking... “teacher.utips.org”
- If you are running Bess with Squid as your redirector, you will need to add an **ACL** to the **Squid.conf file**. Find the ACL section in your conf file and add this line:  
**ACL uenapps dstdom\_regex utips.org/\*** - Then find the line that says:  
**Http\_access allow manager localhost** - Append the word “**uenapps**” to then end of that line.
- If you are redirecting traffic to a Bess filter server via a firewall and do not already know how to exempt a site please call Wesley Furgason (801) 585-6549 @ UEN

This should remove any possibility of students test results being accidentally delivered to the whole class.