

# CacheCleaner SDK

The CacheCleaner software utility is a virtual shredder, used to erase all traces of sensitive data created while logged in to a browser. Fully configurable, it can be set to activate on demand, after a browser or OS crash, an inactivity timeout or at the end of a session. CacheCleaner is ideal for adding security to an SSL VPN gateway or any situation which requires that users are protected from data theft. Additionally, this lightweight executable adds privacy assurance to users accessing sensitive web pages or shared computers.

## Why Should I Employ CacheCleaner in my Solution?

- To increase security for users accessing important resources via SSL VPN.
- To increase security for users at Wi-Fi hotspots and business centers (airport kiosks, hotels, cafés, etc.).
- To ensure that users are protected if you host a website that contains sensitive data (banking, accounting, etc.).

## What Kind of Information Does CacheCleaner Delete?

CacheCleaner can be set to eliminate a variety of data sources.

- |   |                            |
|---|----------------------------|
| ■ Browser cache                                     | ■ Auto-complete URLs       |
| ■ Offline cache of common office suite applications | ■ History                  |
| ■ Saved passwords                                   | ■ SSL VPN user credentials |
| ■ Auto-complete forms                               | ■ Cookies                  |

## Features

- Small footprint
- Configuration file can be located on the local computer or on a server
- Persistence—if the machine crashes the secure content will be deleted upon reboot
- Does not require special user privileges: file deletion can wipe anything the user can access
- Administrators have the ability to configure a variety of features:
  - Data whitelist to prevent deletion
  - Whether to shut down a browser before the session starts and after the session ends
  - Specifying which browsers to clean
  - Disabling local user override
  - A starting point for deletion protocol
  - Either to use a wildcard or specify exactly which URLs to monitor



## How Secure is CacheCleaner?

CacheCleaner does a full overwrite of sensitive data and does not merely delete files while leaving data on the disk. It can be configured to a number of standards:

- 1-pass secure delete
- 7-pass Department of Defense standard
- 35-pass Gutmann algorithmic method

## Deployment Scenario: **Microsoft**

Microsoft licensed the CacheCleaner toolkit to create Attachment Wiper, a utility included with their Intelligent Application Gateway (IAG) VPN solution. To receive ICSA Labs Certification a VPN solution must have this type of cleaning utility.

More information on Attachment Wiper is available at <http://technet.microsoft.com/en-us/library/dd277992.aspx>

## Available Interfaces

- Robust CLI
  - Brandable "drop and go" executable
- Active X and applet code samples available

## Supported OS and Browsers

- |                    |                              |
|--------------------|------------------------------|
| ■ Windows XP*      | ■ Windows 2008 R2*           |
| ■ Windows Vista*   | ■ Linux Fedora*              |
| ■ Windows 7*       | ■ Ubuntu*                    |
| ■ Windows 2000     | ■ CentOS/Red Hat Enterprise* |
| ■ Windows 2003     | ■ Mac OS X                   |
| ■ Windows 2003 R2* | * 32 bit and 64 bit support  |
| ■ Windows 2008*    |                              |

Browsers:

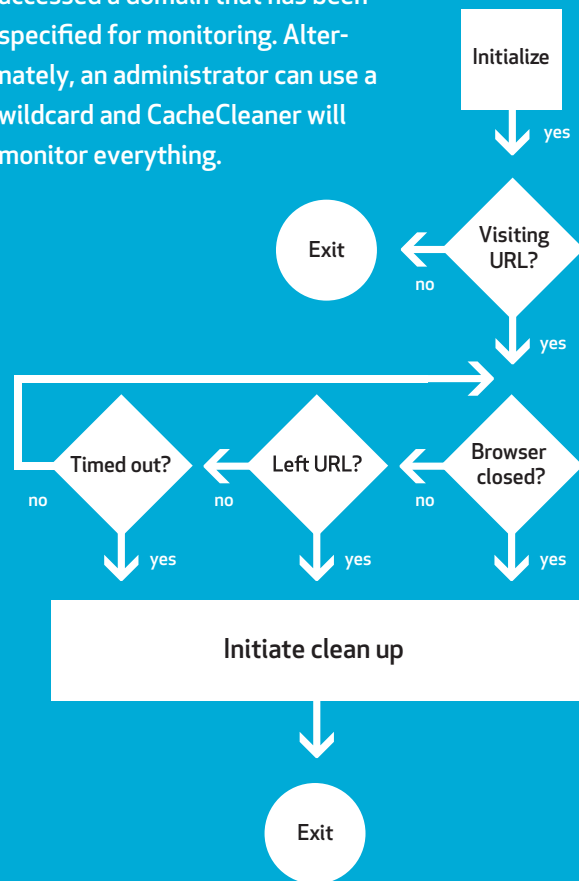
- Mozilla Firefox
- Microsoft Internet Explorer
- Apple Safari

## Licensing CacheCleaner SDK

If you wish to obtain a commercial license of CacheCleaner SDK please contact [sales@opswat.com](mailto:sales@opswat.com)

## How Does CacheCleaner Work?

CacheCleaner is prompted to start when it senses that the user has accessed a domain that has been specified for monitoring. Alternatively, an administrator can use a wildcard and CacheCleaner will monitor everything.



### Command Line Interface

```
C:\Documents and Settings\mike\Desktop\CacheCleaner>cd Debug
C:\Documents and Settings\mike\Desktop\CacheCleaner\Debug>CacheCleaner.exe -help
CacheCleaner (C) 2009 OPSWAT Inc.

-domains domain{,domain}: list of domains to be monitored
-cookies cookie{,cookie}: list of cookies to be preserved
-browsers {ie{,ff}{,chr}{,saf}{,op}|all|auto}: list of browsers to monitor
-allow_disable {on|off}: client side disabling allowed
-scope {session|all}: wipe all browser data or session browser data
-wipe_mode {non-secure|secure|idol|gutmann}: type of wipe to perform
-data {cache{,history}{,cookies}{,passwords}{,addresses}|all}: type of data to be removed
-timeout time: time in seconds of inactivity before CacheCleaner initiated wipe. -1 to ignore persistence failure {on|off}: when on CacheCleaner will continue even if it fails
-config file: configuration file
-keep_alive time: time in seconds to keep CacheCleaner alive. -1 to disable
-running: returns 0 if running, -1 if not running
-close_browsers: close all running browsers and start wipe
-quit: quit CacheCleaner with no wipe
-wipe start time: initiate a wipe at startup filtering from start time, format YYYY/MM
-disable: disable the CacheCleaner
-enable: enable the CacheCleaner
-help: Display command line switches
-log: enable logging
-logfolder path: path to store the logfile in

C:\Documents and Settings\mike\Desktop\CacheCleaner\Debug>
```