



WebData Control Product Guide

Version 4.3.52.0

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About WebData Control

Browser Generated Data

With web based applications and internet browsing being the norm today, the data generated by modern web browsers is increasingly causing system administrators issues. As ever, system administrators want to provide better controls, more security and minimise costs, whilst end users expect a great user experience, a fast logon and the same consistent experience in every session and on each machine they use.

Internet Explorer (IE), Google Chrome, Mozilla Firefox, and more recently Microsoft Edge are often provided as the standard mechanisms for browsing the internet and accessing web based applications. These browsers all have proprietary mechanisms for storing cookies, browsing history, temporary internet files and document object model (DOM) information. This data needs managing in order to provide users with an optimal and consistent user experience.

WebData Control has been designed to allow for the granular management of this browser generated data to sanitize and optimize it based on the needs of the IT department, facilitating the ability to provide end users a great user experience.

Looking at Internet Explorer 11 and Microsoft Edge, much of the data corresponding to web browsing is now indexed and held within a central database, the webcachev01.dat. This database is located in %UserProfile%\AppData\Local\Microsoft\Windows\WebCache. To identify data such as cookies and browsing history, you need the actual files on disk, the associated registry data, and the webcache database. If any one of these are not present, then the data is redundant, affecting the user experience.

This webcache database brings in major issues when we look at users roaming between devices. The webcache database starts at 26-32MB (dependant on OS version) and rapidly grows as users use the system. Things such as Universal Apps available from the Windows store, and simple browsing of the local network writes data into the database. This means that webcache files can rapidly grow to 100's of Megabytes.

For Google Chrome and Mozilla Firefox the story is much the same with databases being used to store cookies, browsing history and supporting data. The file system is also used to store temporary internet files, browser cache information and other data such as frequently visited sites. These databases rapidly grow as users interact with the browsers and storing and restoring this data between sessions leads to increased storage costs, greater network utilization, and significantly longer logon and logoff times.

WebData Control is unique and provides a fresh solution to the problem. The conventional way is to allow the dataset to grow and increase centralised storage or make the decision to no longer manage this data. With WebData Control, the administrator can define which data which data is kept, and which data is removed. It seamlessly manages the contents of the

browser databases, the relevant files on disk, and relevant registry entries for a complete all-in-one solution.

Bookmarks and Favorites

When delivering modern workspaces IT departments are often faced with the reality of having to provide and support multiple web browsers. With Windows 10, Internet Explorer and Microsoft Edge are present by default and the decision is often taken to provide Google Chrome or Mozilla Firefox as an alternative web browser for users on all operating systems.

The reason for the delivery of multiple browsers often relates to website compatibility with some websites only working correctly in a certain browser. An example of this would be websites which leverage ActiveX controls which only function in Internet Explorer.

In addition to this, with users having access to multiple browsers, the management of browser bookmarks and favorites can be an issue. When users add a bookmark or favorite in a specific browser and then struggle to remember which browser they added it to.

To assist with these challenges WebData Control provides capabilities around the management of browser bookmarks and favorites. Using WebData Control administrators can provision default bookmarks/favorites to specific browsers and synchronize all non-default bookmarks/favorites between the different browsers based on their requirements.

What's New in WebData Control

Browser Favorites Synchronization

A new feature has been added which allows for favorites and bookmarks to be synchronized between different browsers. Internet Explorer, Microsoft Edge, Google Chrome and Mozilla Firefox are supported with this feature and it can be enabled on a per browser basis.

Browser Default Favorites Management

Functionality has been added to allow favorites and bookmarks to be defined for each of the Internet Explorer, Microsoft Edge, Google Chrome and Mozilla Firefox browsers. This feature can be used to define default favorites for users allowing a set of defaults to be managed on a per browser basis. Default favorites and will synchronize between the different browsers.

Latest Operating System Support

WebData Control now supports the latest Windows 10 1809 and Windows Server 2019 releases. With further changes around web data and browser behaviour, WebData Control has been updated to handle these changes.

Liquidware ProfileUnity Support

Full support has been added for the Liquidware ProfileUnity product for a seamless experience when using WebData Control in conjunction with ProfileUnity.

VMWare UEM Support

Full support has been added for the VMWare User Environment Management product for a seamless experience when using WebData Control in conjunction with VMWare UEM.

WebData Control Features

Browser Support

The browser generated data management feature and the bookmark/favorite management features of WebData Control are supported for the following web browsers:

- Microsoft Internet Explorer 10/11
- Google Chrome
- Mozilla Firefox
- Microsoft Edge

Operating System Support

WebData Control is supported for use on the following operating systems:

- Windows 7
- Windows Server 2008 R2
- Windows 8
- Windows 8.1
- Windows Server 2012 R2
- Windows 10 (1607 > 1809)
- Windows Server 2016
- Windows Server 2019

Browser Generated Data Management

Cookie Management

Cookies are essential to enable a rich browsing experience for users. Cookies enhance browsing for users by allowing websites to keep track of user information and preferences. Although many cookies are useful, there are also cookies that are used for other purposes such as tracking and targeting people/computers with adverts.

WebData Control allows you to define which cookies you want to keep and which you want to remove via advanced policies which provide granular control over the management of cookies. Cookies can be managed across all the common browsers that are supported.

WebData Control will remove cookies, cookie files and associated cookie data in the following ways:

- Remove cookie data associated with cookies not created, modified or access in the last x number of days
- Remove cookie data relating to the third-party cookies

- Remove cookie data relating to specific cookie types including known tracking and advertising cookies
- Remove cookie data for expired cookies or cookies which are no longer relevant
- Remove cookie data for defined sites
- Always retain cookie data for defined sites

Note: For an explanation of cookie terms see Appendix A

Browsing History Management

Information relating to a user's browsing history is stored by each of the supported web browsers in different ways. Webdata Control gives a consistent method for an administrator to configure WebData Control to manage the browsing history retained for users:

- Define how long to keep browsing history
- Remove browsing history data for defined sites
- Always retain browsing history data for defined sites

Temporary Internet Files

Temporary Internet Files are designed to provide a faster web experience by placing much of the data within a webpage locally on the machine. The sheer amount of data stored means that this has long been more of a burden than a useful technology and is historically discarded between sessions. WebData Control provides a fresh approach to the management of temporary internet files as it is now possible to manage temporary internet files on a per site basis.

DOM Store Data

Document Object Model (DOM) data is stored as websites are visited by users. This DOM data is used to store web page structures and speed up browsing and navigation. The DOM data is often stored in the form of XML, HTML or javascript files, becomes large and cumbersome as users browse multiple websites. WebData Control provides the ability to granularly manage the DOM data stored by each browser allowing only required DOM data to be retained.

Compatibility Data

For Internet Explorer and Microsoft Edge, the webcache database holds compatibility information ensuring that older websites are rendered correctly in newer browsers. This is comprised of a default set of URLs provided by Microsoft. WebData Control allows for the

default list of sites to be deleted to help reduce the size of the webcache database as much as possible.

Enterprise Mode Data

Internet Explorer and Microsoft Edge both have Enterprise Mode capabilities built in which allow administrators to define how websites are rendered for compatibility. Regardless of whether Enterprise Mode is used the webcache database contains data related to Enterprise Mode. WebData Control allows for this data to be deleted from webcache to keep the size of the file down to the minimum required.

An additional benefit of removing the Enterprise Mode data from the webcache file is that the data is immediately populated from the EMIE Site list XML file when it is needed overcoming the need to wait for 65 seconds after the browser is launched for a refresh to occur.

Windows Store Applications

With Windows 8 and above, Windows Store Applications were introduced. These applications known as Store Apps, Universal Web Platform apps, Modern UI apps or Metro apps also store web data in both the file system and the webcache database. Much of the data is redundant and not user facing. WebData Control allows for Universal App data to be removed from the webcache database ensuring only relevant data for the user is retained.

Data Optimization

Once all data has been managed as per the defined configuration, WebData Control optimizes the web browser databases ensuring all redundant data is cleared and all residual space is reclaimed. This ensures the databases such as the Internet Explorer and Microsoft Edge webcache database size are kept to an absolute minimum, this will minimise the impact on the supporting infrastructure and ensure better logon/logoff times for the users. Chrome and Firefox databases are also optimized providing the same functionality across all supported browsers. Which databases are optimized depends on the browser and options selected when configuring WebData Control.

Note: *Some white space in the webcache data is marked as reserved and therefore cannot be reclaimed*

Google Chrome Extension Locale Removal

For organizations using Google Chrome there is an option to help manage the data related to extensions that have been installed. WebData Control provides a mechanism to remove any locales which are not required which reduces the size and complexity of the data that is

stored by each extension. Locales can be defined as needed, and all other locales will be removed.

Google Chrome Extension Removal

Another feature provided in WebData Control is the ability to selectively choose which Google Chrome extensions should be retained and which should be removed. WebData Control can be configured to whitelist or blacklist extensions based on your requirements and any extensions which do not match the policy will be removed or retained as required.

Bookmark/Favorite Synchronization

The Internet Explorer, Microsoft Edge, Google Chrome and Mozilla Firefox browsers store bookmarks/favorites in different ways which results in users having a different set of bookmarks/favorites in each of the browsers they use, leading to a less than ideal user experience.

WebData Control allows for all bookmarks/favorites to be synchronized between browsers so that all browsers present the same set of bookmarks/favorites for the user.

In addition, WebData Control allows for a set of default favorites/bookmarks to be provisioned to each browser. These defaults will not synchronize to other browsers allowing for defined favorites/bookmarks to be provided for websites and resources which only work correctly with a specific browser.

Notification Service

The Avanite Notification Service is an option which can be selected as part of the installation. The notification service serves multiple purposes, being used to:

- Provide a simple installation and execution mechanism - the service will ensure that WebData Control manages any browser data prior to any profile management solutions and before the user profile is unloaded during the logoff of a user session.
- Provides a session based mechanism to allow the synchronization of Favorites/bookmarks to take place. The service handles all notifications for new sessions and ensures that the favorites/bookmark synchronization is completed for any specified users.

The notification service is not required for managing browser generated data but is required for bookmark/favorite synchronization. The different aspects of the notification service can be disabled if not required.

Installing and Configuring WebData Control

Installation

In order to use WebData Control it must be installed on each Windows Desktop, Virtual Desktop or Terminal Server where you wish to manage user web data. Both manual and automated installations are possible and the software is available in both x64 and x86 architectures.

Pre-Requisites

The only pre-requisite for the installation of WebData Control is Microsoft .Net version 4.5 or greater. If not present, then the installation will prompt for the software and exit.

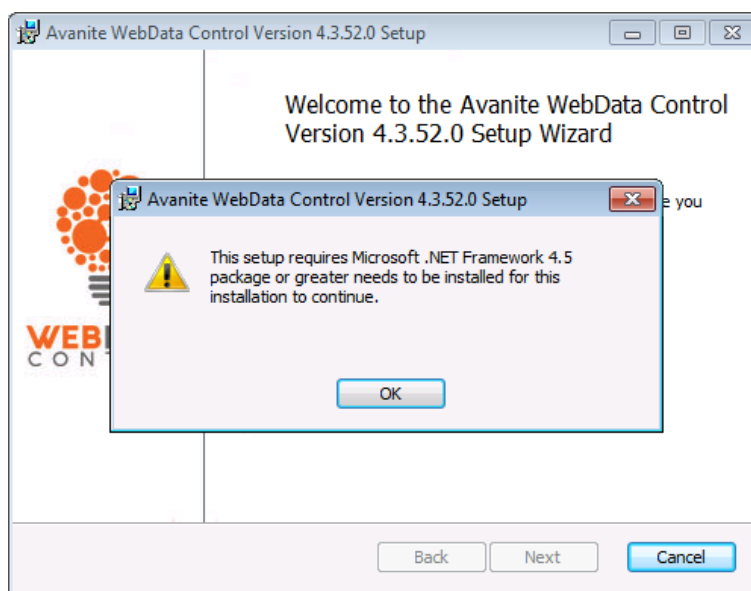


Figure 1 – Required pre-requisite missing

Interactive Installation

To install WebData Control, follow these steps:

1. As an administrator, run AvaWDCx86.msi or AvaWDCx64.msi depending on your system architecture. Click **Next** to continue the installation.

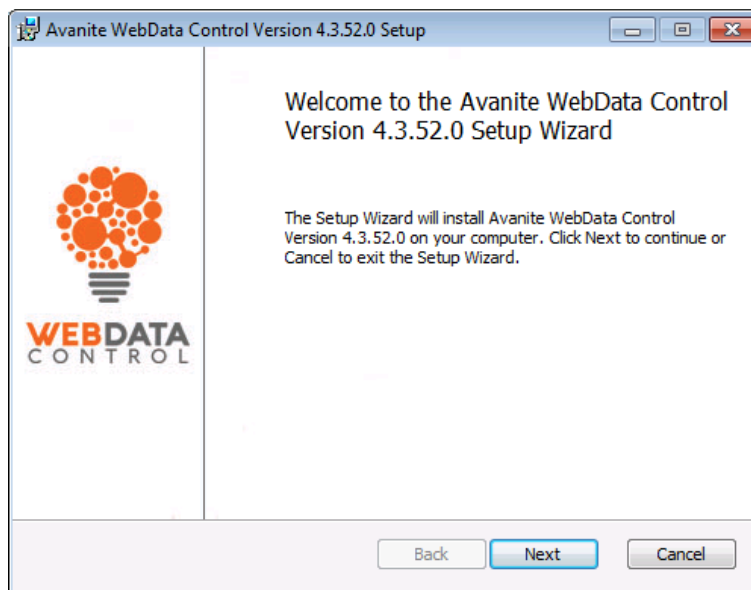


Figure 2 - Welcome screen

2. Read the EULA and if you accept the agreement check the box and click **Next**.

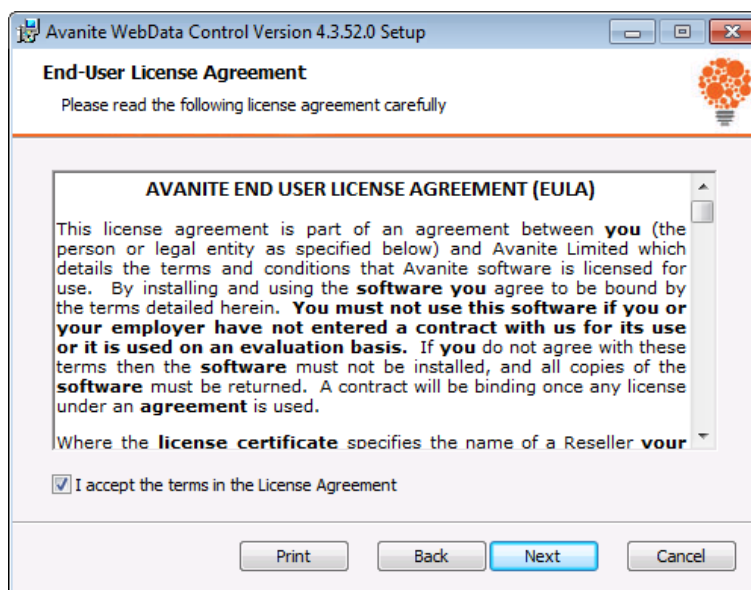


Figure 3 – EULA Acceptance

3. The Custom Setup provides the options to select components to be installed. By default, only WebData Control will be installed.
If required, select to install the Notification Service component, then click **Next**.
The installation directory can be changed by selecting the browse button.

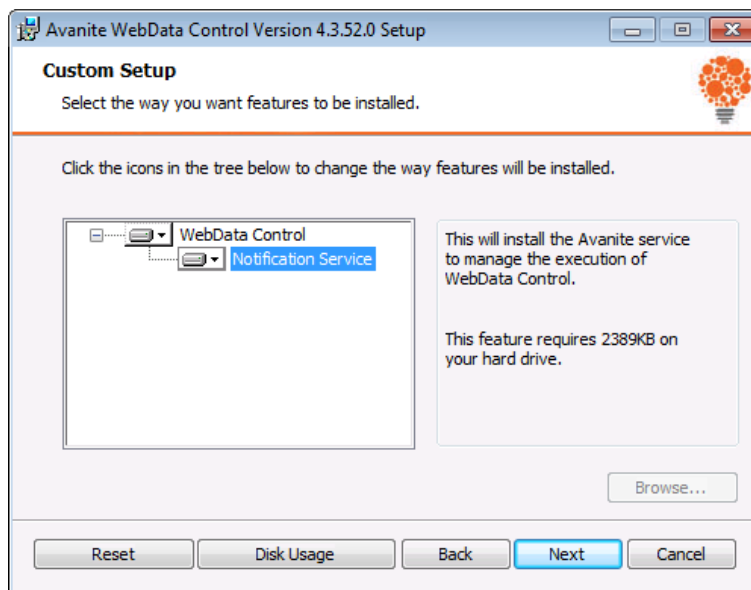


Figure 4 - Custom Setup options

4. Click **Install**.

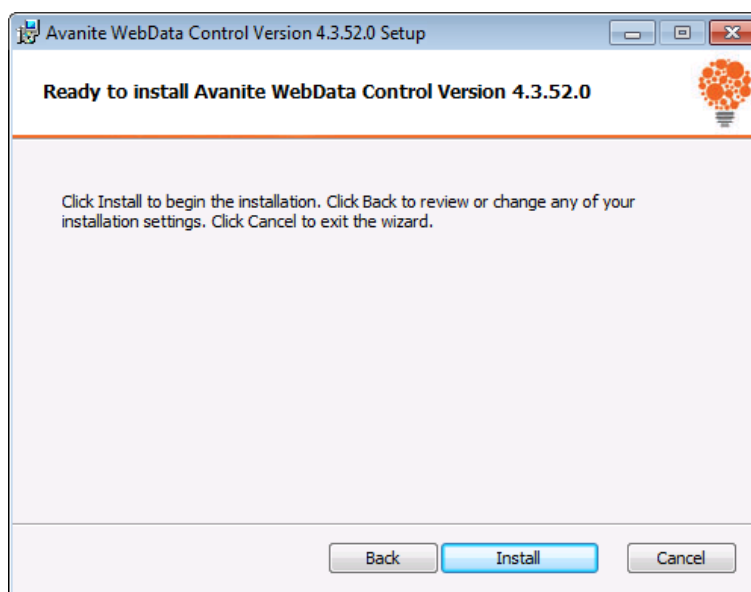


Figure 5 - Confirmation screen

5. After the installation is complete, click **Finish**.

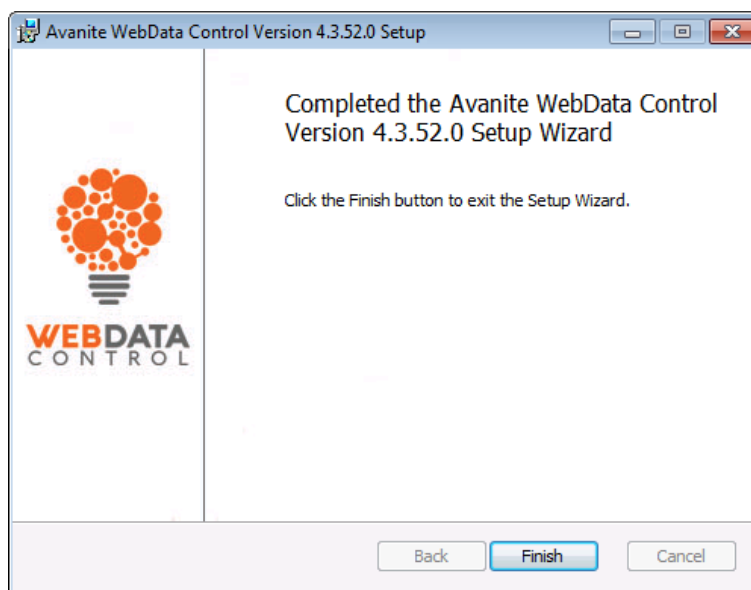


Figure 6 - Setup completion screen

Automated Installation

The installation can also be done using an existing Software Deployment solution, such as Microsoft System Center Configuration Manager (SCCM).

The following is an example of a command line for unattended installation that installs WebData Control and the Notification Service in the default installation directory:

```
MSIEXEC /qn /i <PathToMSI> /! *v <PathToLogFile>  
ADDLOCAL="WebDataControl,NotificationService"
```

Licensing

In order for WebData Control to run it requires the presence of a valid Licence key. To deploy the licence string to the target devices, enable the GPO policy "Define AvaWDC Licence" with the Key Licence value from the licence file being specified as the value.

```
<?xml version="1.0" encoding="utf-8"?>  
<Avanite Version="3.0.1.0">  
  <CRCChecks KeyEncryptCRC="5787" KeyCRC="11140" />  
  <Licence ClientName="Sample" ExpiryDate="2019-02-11" Perpetual="False" WebDataControl="True">  
    <Key Licence="L+YqR75wGHLtiVtSmJOLCnW9Fen6CK/M2rTJ4YUgGYJP1nuzX7/UjyJP+4bgyuawwa/2d310BiT121By0TpXig==" />  
  </Licence>  
</Avanite>
```

Figure 7 - Licence File

Note: The Licence is the text between the quotes in the Key License section of the file as shown above

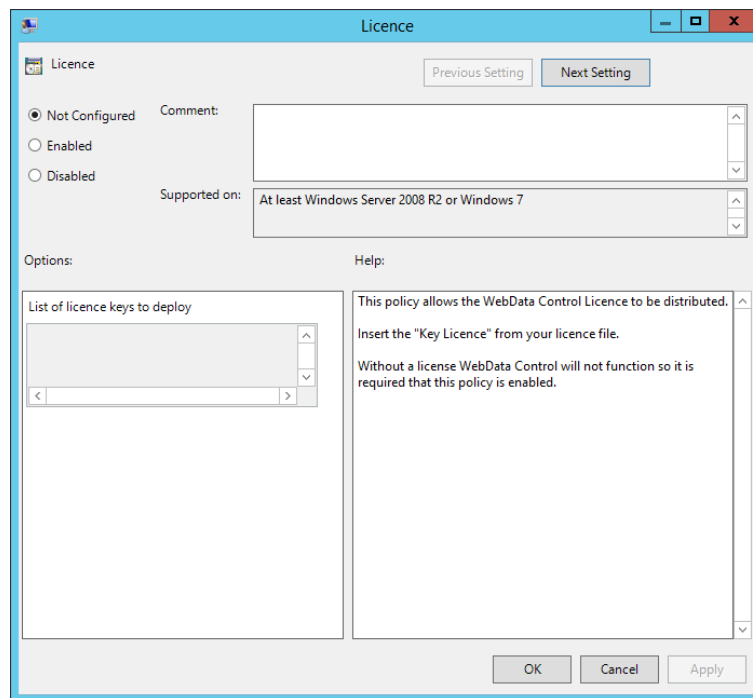


Figure 8 - Licence Policy

Configuration

WebData Control Policy Settings

Once the Group Policy template has been added, all options can be configured via the Group Policy Management Console.

WebData Control can be configured at the Computer level:

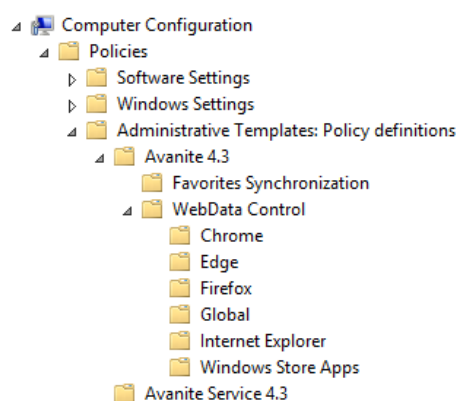


Figure 9 - ADMX Computer Level

WebData Control can also be configured at the User Level:

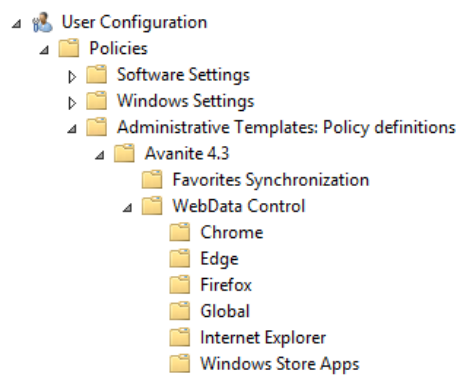


Figure 10 - ADMX User Level

Where policies are configured at both the Computer and User level the User level policies are used.

WebData Control Policy Reference

The following table outlines all the policy options available in the AvaWDCv4-3.admx:

| <i>Policy</i> | <i>Description</i> |
|-------------------------------|---|
| <i>WebData Control\Global</i> | |
| <i>Licence</i> | <p>This policy allows the WebData Control Licence to be distributed.</p> <p>Insert the "Key Licence" from your licence file.</p> <p>Without a license WebData Control will not function so it is required that this policy is enabled.</p> |
| <i>URL BlackListing</i> | <p>This policy specifies the removal of data for defined sites. This will override the selected policy settings for all browser types without exception.</p> <p>Sites specified in the "List of sites to remove" option will have their data removed.</p> <p>Specify data to be removed by defining the part of URL to match. E.g. Entering "Avanite.com/software" would remove data related to "Avanite.com/software" pages.</p> <p>Enabling the "Apply to cookie data" option will remove all cookie data for sites matching the defined URL's.</p> <p>Enabling the "Apply to history data" option will remove all history data for sites matching the defined URL's.</p> <p>Enabling the "Apply to DOM data" option will remove the DOM data for sites matching the defined URL's. DOM data here refers to the Document Object Model data which is used by browsers to store a variety of data required by web browsing and is retained for caching purposes. This option only applies to Internet Explorer and Edge.</p> <p>It is recommended that this policy is enabled only when required.</p> |
| <i>Event Logging</i> | <p>This policy adds statistical data to the application event log.</p> <p>Enabling this policy will ensure overall statistics are collected in the application event log.</p> <p>The data will be collected for each execution of the WebData Control and will record data including: WebData Control start/end time, execution time, username, user domain, machine name and operating system.</p> <p>In addition detailed count will be recorded, listing what the WebData Control agent has actioned.</p> <p>It is recommended that this policy is enabled only when required.</p> |

| <i>Policy</i> | <i>Description</i> |
|---|---|
| <i>WebData Control Diagnostic Logging</i> | <p>This policy defines whether WebData Control logging is enabled or not.</p> <p>Enabling the policy will enable WebData Control logging.</p> <p>Entering "Log path" will define the location of the log files. This only requires a directory as the filename will be generated by the WebData Control E.g. "C:\Temp".</p> <p>It is recommended that this policy is enabled only when required.</p> |
| <i>URL Whitelisting</i> | <p>This policy specifies retention of data for defined sites. This will override the selected policy settings for all browser types with the exception of the URL Blacklist.</p> <p>Sites specified in the "List of sites to retain" option will have their data retained.</p> <p>Specify data to be retained by defining the part of URL to match. E.g. Entering "Avanite.com/software" would retain data related to "Avanite.com/software" pages.</p> <p>Enabling the "Apply to cookie data" option will retain all cookie data for for sites matching the defined URL's.</p> <p>Enabling the "Apply to history data" option will retain all history data for sites matching the defined URL's.</p> <p>Enabling the "Apply to DOM data" option will retain the DOM data for sites matching the defined URL's. DOM data here refers to the Document Object Model data which is used by browsers to store a variety of data required by web browsing and is retained for caching purposes. This option only applies to Internet Explorer and Edge.</p> <p>It is recommended that this policy is enabled, and entries added for intranet websites, internal web applications and line of business websites to ensure that cookies are always retained for these sites.</p> |
| <i>File Deletion Throttling</i> | <p>This policy allows the option for the number of file deletions to be restricted.</p> <p>Enabling the option allows WebData Control to limit the number of files and folders to be removed from the system during each execution.</p> <p>It is recommended that this policy is enabled only when required.</p> |

| <i>Policy</i> | <i>Description</i> |
|--|--|
| <i>Data Optimization</i> | <p>This policy allows the option for user web database optimization to be enabled.</p> <p>Enabling this option allows WebData Control to optimize and compact the various web databases to ensure they use a minimum amount of disk space. This applies to the relevant databases including: webcachev01.dat and the databases used by Chrome and Firefox.</p> <p>It is recommended that this policy is enabled.</p> |
| <i>WebData Control\Chrome</i> | |
| <i>Chrome DOM Data Removal</i> | <p>This policy will remove Chrome DOM data. DOM data here refers to Document Object Model data which is used by browsers to store a variety of data required by web browsing and is retained for caching purposes.</p> <p>Enabling this policy option will cause Chrome DOM data to be removed.</p> <p>It is recommended that this setting is enabled.</p> |
| <i>Chrome Data Report</i> | <p>This policy will generate data exports of the WebData Control activity for Chrome.</p> <p>There will be a separate file for cookies and history. The report will contain all entries and the action performed upon each item.</p> <p>The cookie report will contain all cookie types for all URLs.</p> <p>When enabled a folder path needs to be specified for the reports to be saved to. E.g. C:\Temp.</p> <p>The option to anonymize the data will remove the user references from the exported data.</p> <p>It is recommended that this policy is enabled only when required.</p> |
| <i>Chrome Extension Locale Removal</i> | <p>This policy manages the locales that are installed as part of Chrome extensions.</p> <p>A locale is essentially a language used and supported by the extension.</p> <p>Note: The list provided will be used for an exact text match (case insensitive). However wild card use is supported to do a contains check. For example: 'en*' will keep all locales that contain 'en'. In addition, the default locale for the extension will always be retained.</p> <p>It is recommended that this policy is enabled only when required.</p> |

| <i>Policy</i> | <i>Description</i> |
|---------------------------------|--|
| <i>Chrome Extension Removal</i> | <p>This policy manages Chrome extensions.</p> <p>Enabling the "Blacklisted Extensions" option will remove all Chrome extensions that are part of the blacklist specified.</p> <p>Enabling the "Whitelisted Extensions" option will remove all Chrome extensions that are not part of the whitelist specified.</p> <p>Enabling the "Remove All Extensions" option will remove all Chrome extensions.</p> <p>Note: The blacklist and whitelist verification will use an exact text match (case insensitive). However wild card use is supported to do a contains check. For example: 'Avanite*' will remove or keep all extensions that contain 'Avanite'.</p> <p>It is recommended that this policy is enabled only when required.</p> |
| <i>Chrome Cookie Retention</i> | <p>This policy allows for management of Chrome cookie data.</p> <p>Enabling this policy allows for cookies to be retained for a specific number of days.</p> <p>"Clear all Cookies" option removes all cookie related web data for the user.</p> <p>"Retain specified number of calendar days" option allows cookies to be retained for a specific number of days. This allows cookies to be retained for the previous number of calendar days and any days of inactivity will be included.</p> <p>"Retain specified number of browsing days" option retains cookies for days where browsing has occurred. This allows the cookies to be retained for the specified number of days where the user has been actively browsing and any days of inactivity will be ignored.</p> <p>Enabling the "Remove expired cookies" option removes cookie data for cookies that have expired.</p> <p>The recommended setting for this policy is to select "Retain specified number of browsing days" and set it to 7 days. It is also recommended that the "Remove expired cookies" option is enabled.</p> |

| <i>Policy</i> | <i>Description</i> |
|---|---|
| <i>Chrome History Retention</i> | <p>This policy allows management of Chrome history data. Enabling this policy option allows for history data to be retained for a specific number of days.</p> <p>"Clear all history" option removes all history related web data for the user.</p> <p>"Retain specified number of calendar days" option allows for history to be retained for a specific number of days. This allows history to be retained for the previous number of calendar days.</p> <p>"Retain specified number of browsing days" option retains history for days where browsing has occurred. This allows the history to be retained for the specified number of days where the user has been actively browsing and any days of inactivity will be ignored.</p> <p>The recommended setting for this policy is to select "Retain specified number of browsing days" and set this to 7 days.</p> |
| <i>Chrome Temporary Internet Data Removal</i> | <p>This policy will remove Chrome temporary internet files data. Enabling this policy option will cause Chrome temporary internet files data to be removed.</p> <p>It is recommended that this setting is enabled.</p> |
| <i>Chrome Cookie Type Removal</i> | <p>This policy will remove cookies of specified types within Chrome.</p> <p>An example of a cookie type is "_ga" which is used to gather data about website activity by Google Analytics. Providing the ability to remove cookies based on type allows granular control over which cookies are retained.</p> <p>The "Remove known advertising and tracking cookies" option enables functionality to remove cookie types identified as being used for advertising or tracking purposes that will not affect the usability of websites.</p> <p>The WebData Control agent includes a pre-defined list of known advertising and tracking cookie types which is used when this option is enabled.</p> <p>"List of Cookie types" allows for user specified cookie types to be removed. When entering a cookie type, the entries are treated as an exact match including the case.</p> |
| <i>Chrome Third Party Cookie Removal</i> | <p>This policy will remove Chrome third party cookies. Third party cookies are cookies generated from domains which do not match that of the primary website browsed.</p> <p>It is recommended that this setting is enabled.</p> |
| <i>WebData Control\Edge</i> | |

| <i>Policy</i> | <i>Description</i> |
|--|---|
| <i>Edge Compatibility Data Removal</i> | <p>This policy will remove the Edge related compatibility mode data stored in the webcache database.</p> <p>Compatibility mode data will be dynamically updated as needed by the browser and the data does not need to be retained in the webcache database.</p> <p>It is recommended that this setting is enabled.</p> |
| <i>Edge DOM Data Removal</i> | <p>This policy will remove Edge DOM data. DOM data here refers to Document Object Model data which is used by browsers to store a variety of data required by web browsing and is retained for caching purposes.</p> <p>Enabling this policy option will cause Edge DOM data to be removed. All DOM data references within the webcache database will be removed when this policy is enabled.</p> <p>Enabling the "Delete all files" option will remove all Edge DOM data referenced data from the file system.</p> <p>Enabling the "Do not remove files on disk" option only removes references to Edge DOM data from the webcache and the file system is left untouched.</p> <p>The recommended setting for this policy will depend on how the environment is configured. When a persistent profile is being used it is recommended to use the "Delete all files" setting, and when a non-persistent profile is being used it is recommended to use the "Do not remove files on disk" option.</p> |
| <i>Edge Data Report</i> | <p>This policy will generate data exports of the WebData Control activity for Edge.</p> <p>There will be a separate file for cookies and history. The report will contain all entries and the action performed upon each item.</p> <p>The cookie report contains all cookie types for all URLs.</p> <p>When enabled a folder path needs to be specified for the reports to be saved to. E.g. C:\Temp.</p> <p>The option to anonymize the data will remove the user references from the exported data.</p> <p>It is recommended that this policy is enabled only when required.</p> |
| <i>Edge Enterprise Mode Data Removal</i> | <p>This policy will remove the Edge related Enterprise Mode data stored in the webcache database.</p> <p>Enterprise Mode data will be dynamically updated by the browser and the data does not need to be retained within the webcache database.</p> <p>It is recommended that this setting is enabled.</p> |

| <i>Policy</i> | <i>Description</i> |
|-------------------------------|--|
| <i>Edge Cookie Retention</i> | <p>This policy allows for management of Edge cookie data.</p> <p>Enabling this policy allows for cookies to be retained for a specific number of days.</p> <p>"Clear all Cookies" option removes all cookie related web data for the user.</p> <p>"Retain specified number of calendar days" option allows cookies to be retained for a specific number of days. This allows cookies to be retained for the previous number of calendar days and any days of inactivity will be included.</p> <p>"Retain specified number of browsing days" option retains cookies for days where browsing has occurred. This allows the cookies to be retained for the specified number of days where the user has been actively browsing and any days of inactivity will be ignored.</p> <p>Enabling the "Remove expired cookies" option removes cookie data for cookies that have expired.</p> <p>The recommended setting for this policy is to select "Retain specified number of browsing days" and set it to 7 days. It is also recommended that the "Remove expired cookies" option is enabled.</p> |
| <i>Edge History Retention</i> | <p>This policy allows management of Edge history data.</p> <p>Enabling this policy option allows for history data to be retained for a specific number of days.</p> <p>"Clear all history" option removes all history related web data for the user.</p> <p>"Retain specified number of calendar days" option allows for history to be retained for a specific number of days. This allows history to be retained for the previous number of calendar days.</p> <p>"Retain specified number of browsing days" option retains history for days where browsing has occurred. This allows the history to be retained for the specified number of days where the user has been actively browsing and any days of inactivity will be ignored.</p> <p>The recommended setting for this policy is to select "Retain specified number of browsing days" and set this to 7 days.</p> |

| <i>Policy</i> | <i>Description</i> |
|---|--|
| <i>Edge Temporary Internet Files Data Removal</i> | <p>This policy will remove Edge temporary internet files data.</p> <p>Enabling this policy option will cause Edge temporary internet files data to be removed. All temporary internet files data references in the webcache database will be removed when this policy is enabled.</p> <p>Enabling the "Delete all files" option will remove all Edge temporary internet files data from the file system.</p> <p>Enabling the "Do not remove files on disk" option only removes references to Edge temporary internet files data from the webcache database and the file system is left untouched.</p> <p>The recommended setting for this policy will depend on how the environment is configured. When a persistent profile is being used it is recommended to use the "Delete all files" setting, and when a non-persistent profile is being used it is recommended to use the "Do not remove files on disk" option.</p> |
| <i>Edge Cookie Type Removal</i> | <p>This policy will remove cookies of specified types within Edge.</p> <p>An example of a cookie type is "_ga" which is used to gather data about website activity by Google Analytics. Providing the ability to remove cookies based on type allows granular control over which cookies are retained.</p> <p>The "Remove known advertising and tracking cookies" option enables functionality to remove cookie types identified as being used for advertising or tracking purposes that will not affect the usability of websites.</p> <p>The WebData Control agent includes a pre-defined list of known advertising and tracking cookie types which is used when this option is enabled.</p> <p>"List of Cookie types" allows for user specified cookie types to be removed. When entering a cookie type, the entries are treated as an exact match including the case.</p> <p>When the "Remove known advertising and tracking cookies" and a "List of Cookies types" options are both specified the list of cookie types to be removed are cumulative.</p> <p>The recommended setting for this policy is to enable the policy and check the "Remove known advertising and tracking cookies" option.</p> |
| <i>Edge Third Party Cookie Removal</i> | <p>This policy will remove Edge third party cookies.</p> <p>Third party cookies are cookies generated from domains which do not match that of the primary website browsed.</p> <p>It is recommended that this setting is enabled.</p> |
| <i>WebData Control\Firefox</i> | |

| <i>Policy</i> | <i>Description</i> |
|---------------------------------|---|
| <i>Firefox DOM Data Removal</i> | <p>This policy will remove Firefox DOM data. DOM data here refers to Document Object Model data which is used by browsers to store a variety of data required by web browsing and is retained for caching purposes.</p> <p>Enabling this policy option will cause Firefox DOM data to be removed.</p> <p>It is recommended that this setting is enabled.</p> |
| <i>Firefox Data Report</i> | <p>This policy will generate data exports of the WebData Control activity for Firefox.</p> <p>There will be a separate file for cookies and history. The report will contain all entries and the action performed upon each item.</p> <p>The cookie report will contain all cookie types for all URLs.</p> <p>When enabled a folder path needs to be specified for the reports to be saved to eg. C:\Temp.</p> <p>The option to anonymize the data will remove the user references from the exported data.</p> <p>It is recommended that this policy is enabled only when required.</p> |
| <i>Firefox Cookie Retention</i> | <p>This policy allows for management of Firefox cookie data.</p> <p>Enabling this policy allows for cookies to be retained for a specific number of days.</p> <p>"Clear all Cookies" option removes all cookie related web data for the user.</p> <p>"Retain specified number of calendar days" option allows cookies to be retained for a specific number of days. This allows cookies to be retained for the previous number of calendar days and any days of inactivity will be included.</p> <p>"Retain specified number of browsing days" option retains cookies for days where browsing has occurred. This allows the cookies to be retained for the specified number of days where the user has been actively browsing and any days of inactivity will be ignored.</p> <p>Enabling the "Remove expired cookies" option removes cookie data for cookies that have expired.</p> <p>The recommended setting for this policy is to select "Retain specified number of browsing days" and set it to 7 days. It is also recommended that the "Remove expired cookies" option is enabled.</p> |

| <i>Policy</i> | <i>Description</i> |
|--|---|
| <i>Firefox History Retention</i> | <p>This policy allows management of Firefox history data.</p> <p>Enabling this policy option allows for history data to be retained for a specific number of days.</p> <p>"Clear all history" option removes all history related web data for the user.</p> <p>"Retain specified number of calendar days" option allows for history to be retained for a specific number of days. This allows history to be retained for the previous number of calendar days.</p> <p>"Retain specified number of browsing days" option retains history for days where browsing has occurred. This allows the history to be retained for the specified number of days where the user has been actively browsing and any days of inactivity will be ignored.</p> <p>The recommended setting for this policy is to select "Retain specified number of browsing days" and set this to 7 days.</p> |
| <i>Firefox Temporary Internet Data Removal</i> | <p>This policy will remove Firefox temporary internet files data.</p> <p>Enabling this policy option will cause Firefox Temporary Internet Files data to be removed.</p> <p>It is recommended that this setting is enabled.</p> |
| <i>Firefox Cookie Type Removal</i> | <p>This policy will remove cookies of specified types within Firefox.</p> <p>An example of a cookie type is "_ga" which is used to gather data about website activity by Google Analytics. Providing the ability to remove cookies based on type allows granular control over which cookies are retained.</p> <p>The "Remove known advertising and tracking cookies" option enables functionality to remove cookie types identified as being used for advertising or tracking purposes that will not affect the usability of websites.</p> <p>The WebData Control agent includes a pre-defined list of known advertising and tracking cookie types which is used when this option is enabled.</p> <p>"List of Cookie types" allows for user specified cookie types to be removed. When entering a cookie type, the entries are treated as an exact match including the case.</p> <p>When the "Remove known advertising and tracking cookies" and a "List of Cookies types" options are both specified the list of cookie types to be removed are cumulative.</p> <p>The recommended setting for this policy is to enable the policy and check the "Remove known advertising and tracking cookies" option.</p> |

| <i>Policy</i> | <i>Description</i> |
|---|--|
| <i>Firefox Third Party Cookie Removal</i> | <p>This policy will remove Firefox third party cookies.</p> <p>Third party cookies are cookies generated from domains which do not match that of the primary website browsed.</p> <p>It is recommended that this setting is enabled.</p> |
| WebData Control\Internet Explorer | |
| <i>Internet Explorer Compatibility Data Removal</i> | <p>This policy will remove the Internet Explorer related compatibility mode data stored in the webcache database.</p> <p>Compatibility mode data will be dynamically updated as needed by the browser and the data does not need to be retained in the webcache database.</p> <p>It is recommended that this setting is enabled.</p> |
| <i>Internet Explorer DOM Data Removal</i> | <p>This policy will remove Internet Explorer DOM data. DOM data here refers to Document Object Model data which is used by browsers to store a variety of data required by web browsing and is retained for caching purposes.</p> <p>Enabling this policy option will cause Internet Explorer DOM data to be removed. All DOM data references within the webcache database will be removed when this policy is enabled.</p> <p>Enabling the "Delete all files" option will remove all Internet Explorer DOM data referenced data from the file system.</p> <p>Enabling the "Do not remove files on disk" option only removes references to Internet Explorer DOM data from the webcache database and the file system is left untouched.</p> <p>The recommended setting for this policy will depend on how the environment is configured. When a persistent profile is being used it is recommended to use the "Delete all files" setting, and when a non-persistent profile is being used it is recommended to use the "Do not remove files on disk" option.</p> |
| <i>Internet Explorer Data Report</i> | <p>This policy will generate data exports of the WebData Control activity for Internet Explorer.</p> <p>There will be a separate file for cookies and history. The report will contain all entries and the action performed upon each item.</p> <p>The cookie report contains all cookie types for all URLs.</p> <p>When enabled a folder path needs to be specified for the reports to be saved to eg. C:\Temp.</p> <p>The option to anonymize the data will remove the user references from the exported data.</p> <p>It is recommended that this policy is enabled only when required.</p> |

| <i>Policy</i> | <i>Description</i> |
|---|---|
| <i>Internet Explorer Enterprise Mode Data Removal</i> | <p>This policy will remove the Internet Explorer related Enterprise Mode data stored in the webcache database.</p> <p>Enterprise Mode data will be dynamically updated by the browser and the data does not need to be retained within the webcache database.</p> <p>This setting overcomes the need to wait 65 seconds at browser launch as per the following article - https://docs.microsoft.com/en-us/internet-explorer/ie11-deploy-guide/check-for-new-enterprise-mode-site-list-xml-file.</p> <p>It is recommended that this setting is enabled.</p> |
| <i>Internet Explorer Cookie Retention</i> | <p>This policy allows for management of Internet Explorer cookie data in Internet Explorer version 10 and above.</p> <p>Enabling this policy allows for cookies to be retained for a specific number of days.</p> <p>"Clear all Cookies" option removes all cookie related web data for the user.</p> <p>"Retain specified number of calendar days" option allows cookies to be retained for a specific number of days. This allows cookies to be retained for the previous number of calendar days and any days of inactivity will be included.</p> <p>"Retain specified number of browsing days" option retains cookies for days where browsing has occurred. This allows the cookies to be retained for the specified number of days where the user has been actively browsing and any days of inactivity will be ignored.</p> <p>Enabling the "Remove expired cookies" option removes cookie data for cookies that have expired.</p> <p>The recommended setting for this policy is to select "Retain specified number of browsing days" and set it to 7 days. It is also recommended that the "Remove expired cookies" option is enabled.</p> |

| <i>Policy</i> | <i>Description</i> |
|---|---|
| <p><i>Internet Explorer History Retention</i></p> | <p>This policy allows management of Internet Explorer history data in Internet Explorer version 10 and above.</p> <p>Enabling this policy option allows for history data to be retained for a specific number of days.</p> <p>"Clear all history" option removes all history related web data for the user.</p> <p>"Retain specified number of calendar days" options allows for history to be retained for a specific number of days. This allows history to be retained for the previous number of calendar days.</p> <p>"Retain specified number of browsing days" option retains history for days where browsing has occurred. This allows the history to be retained for the specified number of days where the user has been actively browsing and any days of inactivity will be ignored.</p> <p>The recommended setting for this policy is to select "Retain specified number of browsing days" and set this to 7 days.</p> |
| <p><i>Internet Explorer Temporary Internet Files Data Removal</i></p> | <p>This policy will remove Internet Explorer temporary internet files data.</p> <p>Enabling this policy option will cause Internet Explorer temporary internet files data to be removed. All temporary internet files data referenced in the webcache database will be removed when this policy is enabled.</p> <p>Enabling the "Delete all files" option will remove all Internet Explorer temporary internet files data from the file system.</p> <p>Enabling the "Do not remove files on disk" option only removes references to Internet Explorer temporary internet files data from the webcache and the file system is left untouched.</p> <p>The recommended setting for this policy will depend on how the environment is configured. When a persistent profile is being used it is recommended to use the "Delete all files" setting, and when a non-persistent profile is being used it is recommended to use the "Do not remove files on disk" option.</p> |

| <i>Policy</i> | <i>Description</i> |
|---|---|
| <i>Internet Explorer Cookie Type Removal</i> | <p>This policy will remove cookies of specified types within Internet Explorer.</p> <p>An example of a cookie type is "_ga" which is used to gather data about website activity by Google Analytics. Providing the ability to remove cookies based on type allows granular control over which cookies are retained.</p> <p>The "Remove known advertising and tracking cookies" option enables functionality to remove cookie types identified as being used for advertising or tracking purposes that will not affect the usability of websites.</p> <p>The WebData Control agent includes a pre-defined list of known advertising and tracking cookie types which is used when this option is enabled.</p> <p>"List of Cookie types" allows for user specified cookie types to be removed. When entering a cookie type, the entries are treated as an exact match including the case.</p> <p>When the "Remove known advertising and tracking cookies" and a "List of Cookies types" options are both specified the list of cookie types to be removed are cumulative.</p> <p>The recommended setting for this policy is to enable the policy and check the "Remove known advertising and tracking cookies" option.</p> |
| <i>Internet Explorer Third Party Cookie Removal</i> | <p>This policy will remove Internet Explorer third party cookies.</p> <p>Third party cookies are cookies generated from domains which do not match that of the primary website browsed.</p> <p>It is recommended that this setting is enabled.</p> |
| <i>WebData Control\Windows Store Apps</i> | |
| <i>Windows Store Apps Data Removal</i> | <p>This policy allows the removal of data related to Windows Store Applications from the webcache database.</p> <p>Windows Store Applications that access the internet store data inside the webcache database.</p> <p>Enabling the policy removes all Windows Store Application data.</p> <p>The exclusion option allows important Windows Store applications to have their web data retained. Specify which data to be kept by defining the application name to match. E.g. "Microsoft.Office.OneNote".</p> <p>It is recommended that this setting is enabled.</p> |
| <i>Favorites Synchronization</i> | |

| <i>Policy</i> | <i>Description</i> |
|------------------------------------|---|
| <i>Favorites Browser Selection</i> | <p>This policy defines which browsers will be enabled for favorites synchronization.</p> <p>Selecting a browser will enable it for synchronization and favorites will be shared between the browsers that have been enabled.</p> <p>Note: Multiple browsers need to be selected for this policy to have any effect.</p> <p>It is recommended that this policy is enabled only when required.</p> |
| <i>Favorites Storage Folder</i> | <p>This policy allows an alternative folder to be defined to store the file which holds the user favorites. The file stores all details about the favorites/bookmarks from each of the browsers that are enabled for synchronization.</p> <p>The default location is "%AppData%\Avanite\BrowserFavorites".</p> <p>Enter the path as a literal path or as a UNC path as desired.</p> <p>The folder will be accessed as the user so must have read/write access to the folder specified.</p> <p>It is recommended that this policy is enabled only when required.</p> |
| <i>Default Chrome Favorites</i> | <p>This policy configures a default set of favorites to be available in Chrome.</p> <p>Enter the name for the favorites and the URL of the favorite to have it created in Chrome automatically.</p> <p>An example would:</p> <p style="padding-left: 40px;">Value Name: "Avanite"</p> <p style="padding-left: 40px;">Value: "https://www.avanite.com/"</p> <p>This would create a shortcut called "Avanite" pointing to "http://www.avanite.com/"</p> <p>Note - When a default favorites is created it is automatically excluded from synchronization to other browsers.</p> <p>It is recommended that this policy is only enabled when required.</p> |

| <i>Policy</i> | <i>Description</i> |
|--|---|
| <i>Default Edge Favorites</i> | <p>This policy configures a default set of favorites to be available in Edge.</p> <p>Enter the name for the favorites and the URL of the favorite to have it created in Edge automatically.</p> <p>An example would:</p> <p style="padding-left: 40px;">Value Name: "Avanite"</p> <p style="padding-left: 40px;">Value: "https://www.avanite.com/"</p> <p>This would create a shortcut called "Avanite" pointing to "http://www.avanite.com/"</p> <p>Note - When a default favorites is created it is automatically excluded from synchronization to other browsers.</p> <p>It is recommended that this policy is only enabled when required.</p> |
| <i>Default FireFox Favorites</i> | <p>This policy configures a default set of favorites to be available in Firefox.</p> <p>Enter the name for the favorites and the URL of the favorite to have it created in Firefox automatically.</p> <p>An example would:</p> <p style="padding-left: 40px;">Value Name: "Avanite"</p> <p style="padding-left: 40px;">Value: "https://www.avanite.com/"</p> <p>This would create a shortcut called "Avanite" pointing to "http://www.avanite.com/"</p> <p>Note - When a default favorites is created it is automatically excluded from synchronization to other browsers.</p> <p>It is recommended that this policy is only enabled when required.</p> |
| <i>Default Internet Explorer Favorites</i> | <p>This policy configures a default set of favorites to be available in Internet Explorer.</p> <p>Enter the name for the favorites and the URL of the favorite to have it created in Internet Explorer automatically.</p> <p>An example would:</p> <p style="padding-left: 40px;">Value Name: "Avanite"</p> <p style="padding-left: 40px;">Value: "https://www.avanite.com/"</p> <p>This would create a shortcut called "Avanite" pointing to "http://www.avanite.com/"</p> <p>Note - When a default favorites is created it is automatically excluded from synchronization to other browsers.</p> <p>It is recommended that this policy is only enabled when required.</p> |

Notification Service Policy Reference

The following table outlines all the policy options available in the AvaServicev4-3.admx:

| <i>Policy</i> | <i>Description</i> |
|---|--|
| <i>Avanite Service 4.3</i> | |
| <i>Disable Favorites Synchronization</i> | <p>This policy prevents the service from executing Favorites Synchronization.</p> <p>Enabling the policy will ensure that Favorites Synchronization does not run. This allows WebData Control to run even when favorite synchronization is not required.</p> |
| <i>Disable WebData Control</i> | <p>This policy prevents the service from executing WebData Control.</p> <p>Enabling the policy will ensure that WebData Control does not run. This allows WebData control to be executed independently of the service.</p> <p>Disabling WebData Control is recommended when Favorites are to be synchronized and WebData Control is to be executed independently of the service.</p> |
| <i>WebData Control Logoff Message</i> | <p>This policy defines the logoff message for WebData Control.</p> <p>Enabling the policy will allow you to specify a logoff message to be displayed when WebData Control is running during logoff.</p> |
| <i>Favorites Synchronization Is Admin Condition</i> | <p>This policy defines the is administrator condition for Favorites Synchronization.</p> <p>Enabling the policy will ensure that Favorites Synchronization only runs for non admin users.</p> |
| <i>Favorites Synchronization User Group Condition</i> | <p>This policy defines the user group condition for Favorites Synchronization.</p> <p>Enabling the policy will ensure that Favorites Synchronization only runs for users that are a member of the specified group. Example 'Avanite\User Group 1;Avanite\User Group 2'.</p> |
| <i>WebData Control Is Admin Condition</i> | <p>This policy defines the is administrator condition for WebData Control.</p> <p>Enabling the policy will ensure that WebData Control only runs for non admin users.</p> |
| <i>WebData Control User Group Condition</i> | <p>This policy defines the user group condition for WebData Control.</p> <p>Enabling the policy will ensure that WebData Control only runs for users that are a member of the specified group. Example 'Avanite\User Group 1;Avanite\User Group 2'.</p> |

Launching WebData Control

WebData Control needs to run during logoff before any profile management solution captures the web data.

If the Avanite Notification Service is not installed, this can also be done via a Group Policy Logoff action as shown below:

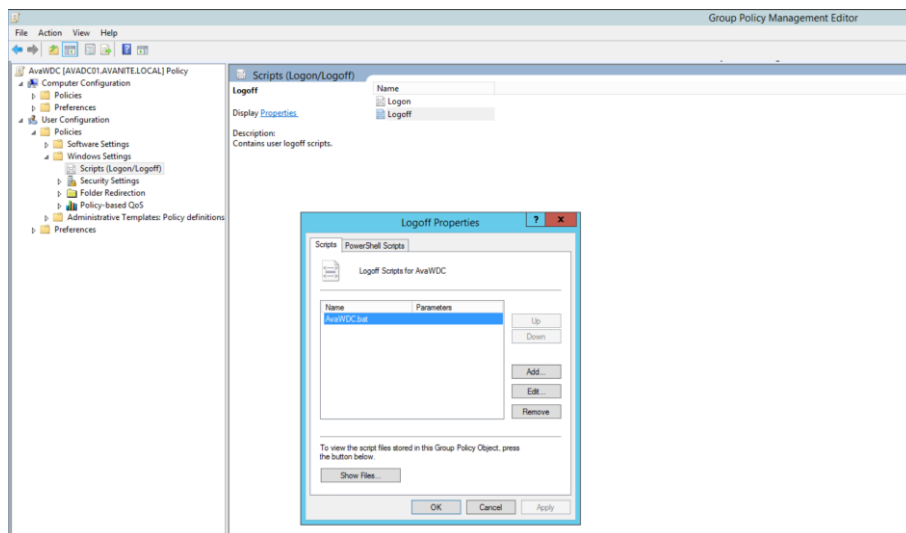


Figure 11 – Logoff Trigger

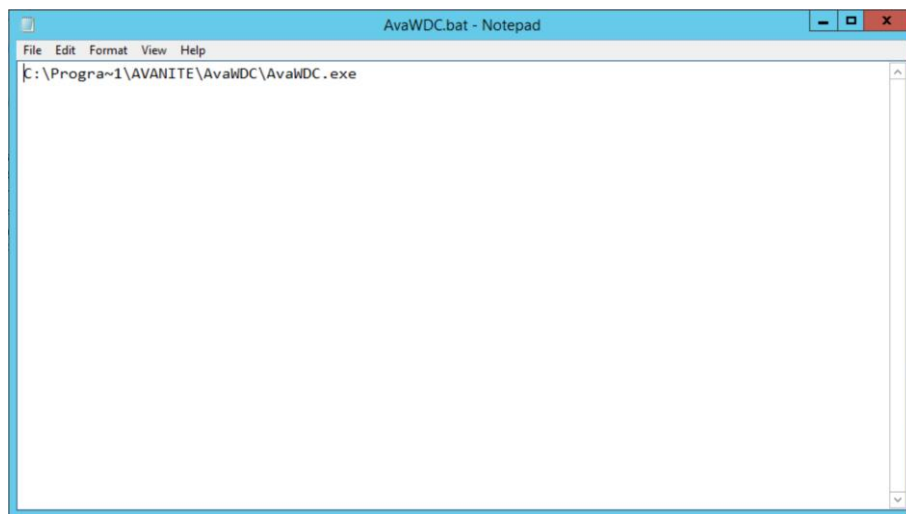


Figure 12 – Launch batch file

Note: WebData Control can be launched by any 3rd party profile solution, the group policy logoff script is an example of its implementation.

Appendix A - Definitions

FIRST-PARTY COOKIE

A first-party cookie is data stored on a user's computer that is created by a website with a domain name matching that of the one the user is currently visiting. First-party cookies are used for shopping baskets, storing user's website preferences and tracking user behaviour.

THIRD-PARTY COOKIE

A third-party cookie is data stored on a user's computer that is created by a website with a domain name other than the one the user is currently visiting. Third-party cookies are often used for tracking and advertising purposes to build up a picture of a user's habits and activities on a particular device.

COOKIE TYPE

An example of a cookie type is "_ga" which is a cookie provided by Google Analytics. The "_ga" cookie is provided from a large number of websites in the world and gives a website administrator data about the traffic the website receives via the Google Analytics platform. As the cookie is provided directly from a website a user is visiting this is a first-party cookie. Each cookie stored for a user on their computer has a type which is defined by the company that hosts the website. Cookie types can be used to identify a cookie regardless of whether it is a first-party or third-party cookie.

Appendix B - Roaming Profile Support

WebData Control actively supports management of Internet Explorer cookies in a roaming profile scenario. As per <https://docs.microsoft.com/en-us/internet-explorer/ie11-deploy-guide/browser-cache-changes-and-roaming-profiles>, when the "Delete cached copies of roaming profiles" Group Policy setting is enabled and the profile is of a Roaming type, when WebData Control executes it automatically manages cookies in the AppData\Roaming section of the user profile.

When using this mechanism only cookie information is retained between sessions with .dat or .rcookie files being generated in the AppData\Roaming part of the user profile. When Internet Explorer launches in each new session the .dat/.rcookie files are used to recreate the webcachev01.dat file. WebData Control understands this inter-relationship and manages the cookies as expected.

Appendix C – Data Report Format

The Data Report feature which is available for each of the supported browsers will output 2 files per user per browser when configured.

The filename of the output files will be as follows:

- N_<BrowserName>_Cookies_<GUID>.txt
- N_<BrowserName>_History_<GUID>.txt

<BrowserName> represents the name of the browser being used ie. IE, Edge, Chrome or Firefox.

<GUID> represents a unique identifier generated automatically for each execution for WebData Control.

Report files are | delimited text files which can easily be viewed by a text editor or imported into Microsoft Excel or similar for analysis.

Cookie Report Format

The Cookie report contains the following data fields:

| <i>Field Name</i> | <i>Description</i> |
|---------------------------|---|
| <i>Version</i> | Defines a version number for the schema of the data |
| <i>Data Type</i> | Defines the entry as a cookie item |
| <i>Browser</i> | Defines which Browser the data was reported from |
| <i>Time Stamp</i> | Date and Time stamp of when the entry was written |
| <i>User</i> | Defines the user to which the data applies |
| <i>Domain</i> | Defines the domain of the user |
| <i>Machine</i> | Defines the machine on which the data was generated |
| <i>Action</i> | Defines what action was taken by WebData Control as the data was processed. Valid actions are: <ul style="list-style-type: none">• Remaining• Removed• RemovedType• Removed3rdParty• OrphanedInDB• Expired |
| <i>Base URL</i> | Defines the complete URL of the website |
| <i>Processed URL</i> | Defines the URL which was processed by WebData Control |
| <i>Type</i> | Defines the cookie type for the entry |
| <i>Secured</i> | Defines whether the entry was from a secure website (true/false) |
| <i>Last Accessed Date</i> | Defines the last access date for the entry |
| <i>Modified Date</i> | Defines the last modified date for the entry |
| <i>Expiry Date</i> | Defines the expiry date for the entry |

History Report Format

The History report contains the following data fields:

| <i>Field Name</i> | <i>Description</i> |
|---------------------------|--|
| <i>Version</i> | Defines a version number for the schema of the data |
| <i>Data Type</i> | Defines the entry as a cookie item |
| <i>Browser</i> | Defines which Browser the data was reported from |
| <i>Time Stamp</i> | Date and Time stamp of when the entry was written |
| <i>User</i> | Defines the user to which the data applies |
| <i>Domain</i> | Defines the domain of the user |
| <i>Machine</i> | Defines the machine on which the data was generated |
| <i>Action</i> | Defines what action was taken by WebData Control as the data was processed. Valid actions are: <ul style="list-style-type: none">• Remaining• Removed |
| <i>Base URL</i> | Defines the complete URL of the website |
| <i>Processed URL</i> | Defines the URL which was processed by WebData Control |
| <i>Secured</i> | Defines whether the entry was from a secure website (true/false) |
| <i>Last Accessed Date</i> | Defines the last access date for the entry |
| <i>Modified Date</i> | Defines the last modified date for the entry |
| <i>Expiry Date</i> | Defines the expiry date for the entry |