User's Manual

# R-Wipe & Clean

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# I R-Wipe & Clean Overview

**R-Wipe & Clean** is a complete solution to remove useless files and keep your computer privacy. Irretrievably deletes private records of your on- and off-line activities, and free up your disk space. Removes files and unused disk space using either fast or secure erase algorithms. All files and folders may be combined in wipe lists to erase them in a single procedure. Supports both the FAT and NTFS file systems. All separate wipe and clean tasks can be combined in one or more erasing procedures launched immediately or at predefined times or events as a background task.

**R-Wipe & Clean Classic**
**R-Wipe & Clean Touch**

## 1.1 System Requirements and Registration

***System Requirements:***

- An Intel-compatible platform with a CPU at least 1.5 GHz;
- Windows 7 / 8.1 / 10 / 11 (32/64 bit) or Windows Server 2008 R2 / 2012 R1/R2 / 2019 / 2022 / 2025(64 bit);
- RAM: 1 GB or more;
- HDD space: 50 MB
- Screen resolution: 800x600

***Registration:***

When **R-Wipe & Clean** is started by a standard user or Administrator without elevated privileges, it will be registered only for the current user.

Use an Administrator account with elevated privileges to register **R-Wipe & Clean** for all users on the computer.

## 1.2 Contact Information and Technical Support

To obtain the latest version of **R-Wipe & Clean**, go to:

Product Site: http://www.r-wipe.com
Sales Department: sales@r-tt.com

The **R-Wipe & Clean** Support Team is available 24 hours a day, seven days a week, and has an average e-mail response time less than 4 hours.

Tech. Support: support@r-tt.com
Send your support request to: http://www.r-tt.com/Support_request.html

Data Security & Privacy FAQ: http://www.r-tt.com//Data_Security_Privacy_FAQ.shtml
R-tt Forum: http://forum.r-tt.com

## 1.3 File Erasure on SSD and HDD devices

***Delete vs Wipe***

There are two distinguishably different ways of how computer systems erase files:

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**Deletion:** The system marks the file as "not needed" anymore, quite often it keeps information about that file, including its name, time stamps, and other file attributes may. And almost always the file data remains untouched, which makes file recovery quite possible by applicable file recovery software, usually inexpensive and easily available.

**Wiping:** a wiping utility overwrites file information and data with a special data pattern and thus makes file recovery impossible. No file recovery utility can do that when a correct file wiping procedure is applied.

### *Wiping files on modern computers*

Most modern computers have SSD devices rather than HDD ones as their prime data storages. HDD and SSD devices work completely differently, but the most important difference for us now is whether files can be irrecoverably wiped out on those devices.

#### HDD devices:

An HDD device keeps file data always on the same physical and logical place which is known to the OS and, through it, to any software. Only the OS can move files across the device, and it's aware where and when it moved their data. Wiping makes sense for an HDD device, as the new data can be written exactly to the same place where the old data was stored. It becomes completely and irrecoverably destroyed, and its recovery is impossible. See more about file wiping algorithms on the Wiping Algorithms page.

#### SSD devices:

An SSD device constantly shuffles the file data across its cells to level their wear, and only the device itself knows where the file data is stored at a certain time. The OS has no control over this process, and moreover, it has no means to know the actual physical location of the data. Using the TRIM command it regularly informs the SSD device that some blocks of data are not needed anymore. The SSD device marked the cells occupied by those blocks as "free" to internally wipe them later.

Therefore, file wiping by the OS or third-party software makes no sense for SSD devices, as the new data cannot be written to the same cells where the old data was stored. Most likely it will be written to other cells and the old data will remain untouched.

Eventually, the file data will be wiped out by the SSD device itself. But the main problem is when that will happen. Depending on many circumstances, it may take from several seconds to several hours to several days. Within this time, the file data will remain stored on the SSD device, and can be obtained by those how know how to do that. The good thing though is that practically only the SSD manufacturer has such knowledge, and they keep it as the top-most secret. They are very reluctant to reveal that information even to law enforcement agencies, but they can extract such data themselves, for example, under a court order.

There's also the bad thing though: there are some chances that advanced computer hackers can obtain such information through reverse engineering, although it's highly unlikely that they will do that for an ordinary computer user.

And the last. Do not confuse erasing of particular files on an SSD device with the Erase procedure that irrecoverably destroys ALL DATA on the SSD device making it fully blank.

**R-Wipe & Clean** disables wiping files and free disk space on such devices by default. You may enable it, but you should understand what you are doing.

## 1.4 Wiping Algorithms

File wiping is necessary only for files stored on conventional hard drives. Files stored on new SSD storage devices cannot be effectively wiped out due to the principles of operation of these devices. Read the File Erasure

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on SSD and HDD devices page for more details. **R-Wipe & Clean** disables wiping files and free disk space on such devices by default. You may enable it, but you should understand what you are doing.

Currently **R-Wipe & Clean** supports 5 wiping algorithms:

| | |
|---|---|
| **Zeroes (000)** | The unused space or file is filled with zeroes through 1 pass. The fastest but the least secure algorithm. Also it does not conceal the fact that the disk or file has been wiped. |
| **Pseudo-random numbers (1010)** | The unused space or file is filled with pseudo-random numbers through 1 pass. A slower but little bit more secure algorithm than the **Zeroes** algorithm and it also conceals to some degree the fact that the disk or file has been wiped. |
| **DoD 5220.22-M(3)** | The unused space or file is wiped using Department of Defense standard 5220.22-M(3). Provides high-grade data wiping filling the unused space or file with a special digital pattern through 3 passes This algorithm is very secure, but slow. |
| **DoD 5200.28-STD(7)** | The unused space or file is wiped using Department of Defense standard 5200.28-STD(7). Provides high-grade data wiping filling the unused space or file with a special digital pattern through 7 passes. This algorithm is very secure, but very slow. |
| **Peter Gutmann (35)** | The unused space or file is wiped using the Peter Gutmann's algorithm. Provides high-grade data wiping filling the unused space or file with a special digital pattern through 35 passes. This algorithm is military-level secure, but horribly slow. |

What algorithm is to choose, depends on your specific needs. All of these wiping algorithms make recovery of wiped data with any software-based data recover utility impossible. So if you want to protect your information from a casual snooper, you may safely choose either the **Zeroes** or **Pseudo-random numbers** algorithm. The latter also conceals the fact that you wiped the data.

**If you want more security**, you need to know the following:

There are some forensic techniques for recovery of wiped data. These techniques are based on the fact that magnetic medium on the hard drive's platters "store" some information about previously written data. Such information cannot be completely removed. Wiped data may be recovered even from mechanically damaged platters. So the only safe way to completely remove data from a hard drive is to mechanically grind the magnetic medium off the drive platters or dissolve them in special chemical solvents.

But in order to recover the wiped data using one of these techniques, a hard drive must be disassembled, its platters placed in a precise magnetic field measurement system, and the results of such measurement statistically processed. All that is very expensive and requires a very qualified and experienced personnel and a specially developed equipment. Only a very advanced organization such as a law enforcement or intelligence agency of a developed nation, or a special high-tech firm can afford this. Moreover, each successive wiping pass makes such data recovery much and much harder. So, the **DoD 5220.22-M(3)** clearing and sanitizing standard overwriting the data with a special pattern through 3 passes is a rather reliable and safe choice for this case.

If you need the ultimate security, use the **DoD 5220.22-M(7)** clearing and sanitizing standard, or even the **Peter Gutmann (35)** wiping algorithm. They render data almost unrecoverable, but they are extremely slow.

# II Classic Interface: Main Panel

**Note:** Some operations, such as wiping a file, wiping and deleting the contents of the Recycle Bin, or wiping free space on a single disk, can be performed directly from the shortcut menu without starting **R-Wipe & Clean**.

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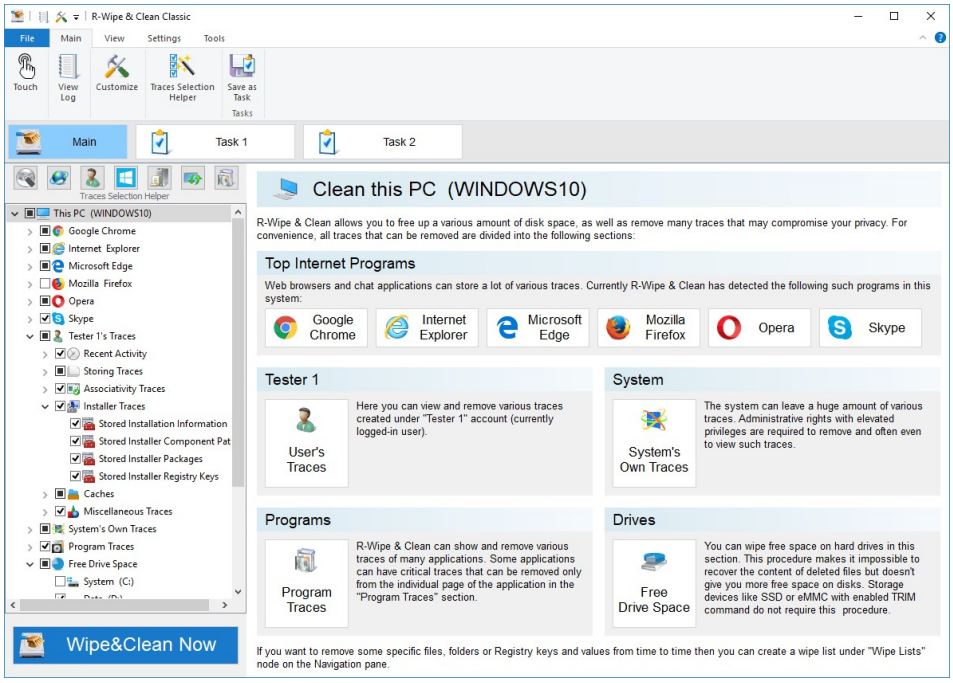
When **R-Wipe & Clean** starts, its main panel appears. You may customize **R-Wipe & Clean** to view only necessary items.

**R-Wipe & Clean's main panel**




***More information on the menu items...***

| | |
|---|---|
| Main | Touch: Switches to the Touch interface (suitable for touch screen device).<br>View Log: Shows and saves the Log file<br>Customize: Customizes **R-Wipe & Clean**<br>Traces Selection Helper: Helps to select traces to clean<br>Save as Task: Saves the selected items in the Tree as a large single wipe & clean task |
| View | Shows/hides various program controls |
| Settings | Gives access to various program settings |
| Tools | Boss Key: Sets the Boss Key for various Internet applications.<br>R-Wipe & Clean Smart: Starts an advanced tool to manage Wipe Lists.<br>File Streams Cleaner: Cleans file Alternative Data Streams.<br>Task Transfer: Starts task exchange from one computer to another.<br>Postponed Cleaning: Edits the list of items to clear on the next computer startup<br>Startup renaming: Edits the list of items to rename the next computer startup |

You may turn on and off the toolbar. Select/deselect **Minimized Ribbon** on the **View** menu.

***Wipe and Clean Tasks***

**How to:**

Clean your private information from your computer: **Cleaning a Computer**
Remove a single file directly from Windows Explorer: **Wiping a File**.
Remove the contents of the **Recycle Bin**: **Wiping the Recycle Bin**.
Remove several files in a single task: **Wipe Lists**.
Wipe unused space on one disk: **Wiping Free Disk Space**.

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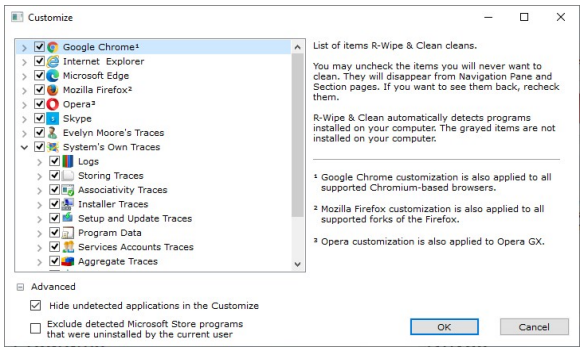
Wipe several disks at once **Wiping Free Disk Space**.
Clean your computer, remove several files and folders, and wipe unused disk space simultaneously: **Setting a Large Wipe and Clean Task**.

## 2.1 Customization

You may set on the **Customize** panel which items that **R-Wipe & Clean** removes or cleans will be visible on the **Main view** and **Tasks**, and accessible to you.
You may clear the items you will never want to clean. They will disappear from **Tree** both on the **Main view** and **Tasks**. If you want to gain access to them again, select them once again.
You may reach the **Customize** panel on the **Main** menu.

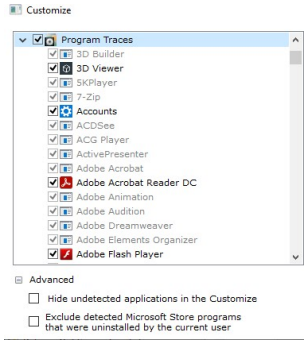
**Customize panel**



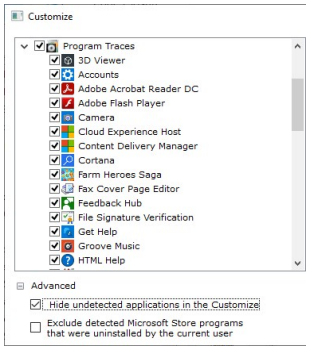

1. Google Chrome customization is also applied to all supported Chromium-based browsers.
2. Mozilla Firefox customization is also applied to all supported Firefox fork browsers.
3. Opera customization is also applied to Opera GX.

**R-Wipe & Clean** automatically detects programs installed on your computer. Items not installed are dimmed. You may hide then by selecting the **Hide undetected applications** option in the **Customize** panel.

**Absent applications**




Undetected applications are shown




Undetected applications are hidden

You may also exclude games and applications from MS Store that have been uninstalled by the current user but still remain in the system.

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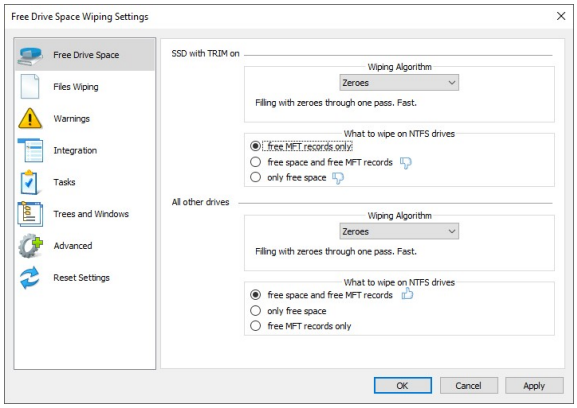
## 2.2 Settings

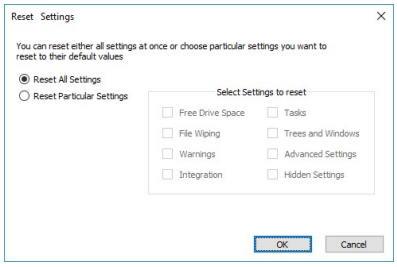
You may reach the **Settings** panel(s) from the **Settings** menu. There are two ways to show the settings: either as a single panel with multiple tabs or as several panels.

**Settings panel**




You may reset all or individual settings on the **Reset Settings** panel.

**Reset Settings panel**



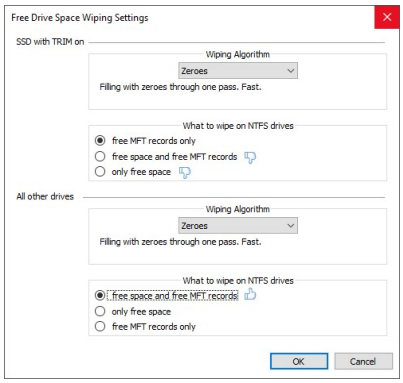

### *Separate Panels and Settings*

#### *Free Drive Space Settings*

You may set default wiping setting for free drive space on this panel/tab.

**Note:** There are two separate free space wiping settings for regular hard drives and SSD devices. Read the File Erasure on SSD and HDD devices page for more details.

**Free Drive Space Wiping Settings panel**

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***Free Drive Space Wiping Settings***

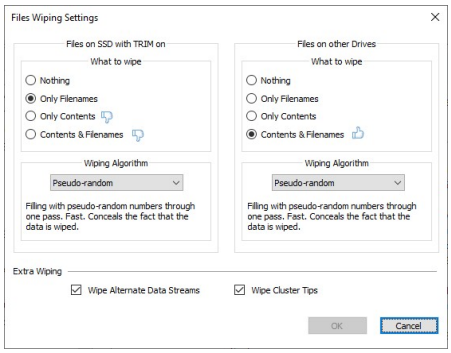
| | |
|---|---|
| Wiping algorithm | You may select a default algorithm for wiping disks. To learn more about wiping algorithms, go to **Wiping Algorithms**. |
| What to wipe on NTFS drives | • free MFT records only: If this option is selected, **R-Wipe & Clean** deletes records of small files which are stored directly in the NTFS Master File Table. It also removes the names of deleted files and folders that may be stored in the disk's MFT. This is important even for SSD devices.<br>• free space and free MFT records: If this option is selected, **R-Wipe & Clean** wipes drive's free space and deletes records of small files which are stored directly in the NTFS Master File Table. It also removes the names of deleted files and folders that may be stored in the disk's MFT.<br>• only free space: If this option is selected, **R-Wipe & Clean** only wipes drive's free space. |

.

***Files Wiping Settings***

You may set default wiping setting for separate files on this panel/tab.

**Files Wiping Settings panel**




***Files Wiping Settings***

| | |
|---|---|
| Files on SSD with TRIM on | You may select what will be wiped on SSD devices with the enabled TRIM command.<br>**Note:** Content wiping is not recommended for TRIM-enabled SSD devices. Read the File Erasure on SSD and HDD devices page for more details. |
| Files on other Drives | You may select what will be wiped on conventional HDDs and SSDs with the disabled TRIM command. |
| What to wipe | You may specify how files will be wiped. |
| Wiping algorithm | You may select a default algorithm for wiping file content. To learn more about wiping algorithms, go to **Wiping Algorithms**. |
| Wipe alternate data streams: | (Effective to the NTFS file system only). If this option is selected, **R-Wipe & Clean** wipes all streams associated with the file. |
| Wipe cluster tips | If this option is selected, **R-Wipe & Clean** also wipes free parts of file clusters. |

***Warnings Settings***

You may specify setting for displaying various warnings on this panel/tab.

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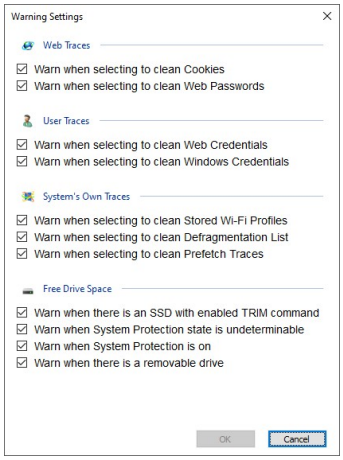
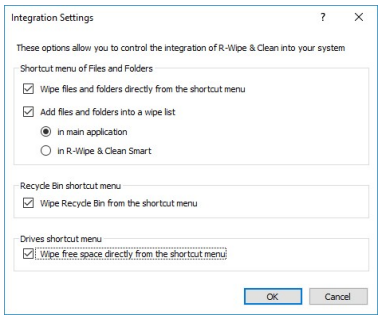
**Warnings Setings panel**




### *Integration Settings*

You may set options controlling the integration of **R-Wipe & Clean** into your system on this panel/tab.

**Integration panel**




***Integration Settings***

| | |
|---|---|
| Shortcut menu of File Explorer | |
| Wipe files and folders directly from the shortcut menu | If this option is selected, the **Delete and Wipe** item will be added to the shortcut menu in File Explorer. Using this item, you may delete and wipe files and folders directly from File Explorer. |
| Add files and folders into a wipe list | If this option is selected, the **Add to the Wipe List** item will be added to the shortcut menu in File Explorer. Using this item, you may add files and folders to a wipe list directly from File Explorer to **R-Wipe & Clean** or **R-Wipe & Clean Smart**. |
| Recycle Bin shortcut menu | |
| Wipe Recycle Bin from the shortcut menu | If this option is selected, the **Wipe and Empty** item will be added to the shortcut menu in **the Recycle Bin**. Using this item, you may wipe files and folders directly from **the Recycle Bin**. |
| Drives shortcut menu | |
| Wipe free space directly from the shortcut menu | If this option is selected, the **Wipe Free Space with R-Wipe & Clean** command will be added to the shortcut menu of every logical disk. Using this item, you may wipe free disk space from the shortcut menu. |

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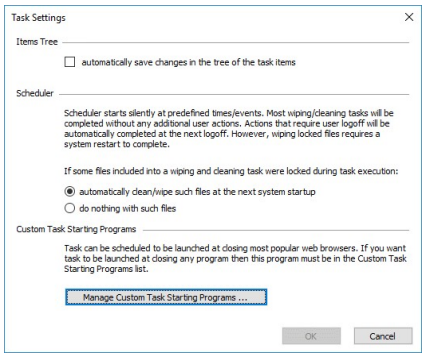
### *Tasks Settings*

You may set options controlling the execution of large wipe and clean tasks.

**Tasks panel**



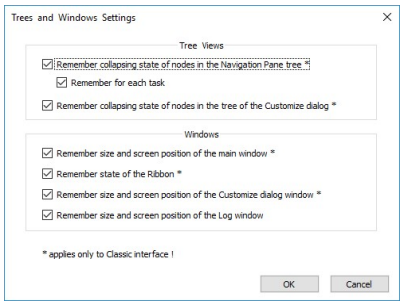

***Tasks Settings***

| Items Tree | |
|---|---|
| automatically save changes in the tree of the task items | If this option is selected, the **R-Wipe & Clean** will immediately save changes you may make in the task tree. |
| If some files included into a wipe and clean task were locked during task execution | |
| automatically clean/wipe such files at the next system startup | If this option is selected, **R-Wipe & Clean** will clean / wipe these files at the next system startup. |
| do nothing with such files | If this option is selected, the **R-Wipe & Clean** will not do anything and these files will not be cleaned / wiped. |
| Manage Custom Task Starting Programs... | You may add up to 5 programs which closing will run a scheduled task if this is specified on Scheduler. |

### *Trees and Windows Settings*

You may specify setting for how **R-Wipe & Clean** keeps the positions and states of various program windows and Tree states on the **Main** panel.

**Trees and Windows Setings panel**




### *Advanced Settings*

You may set some advanced options on the **Advanced** tab of the **Settings** panel.

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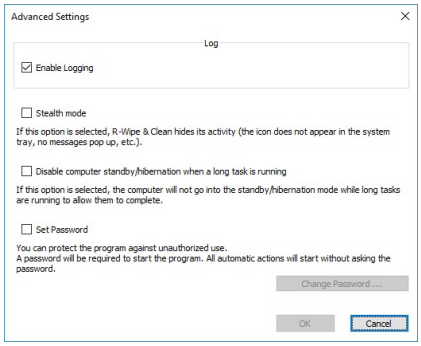
**Advanced panel**




***Advanced Settings***

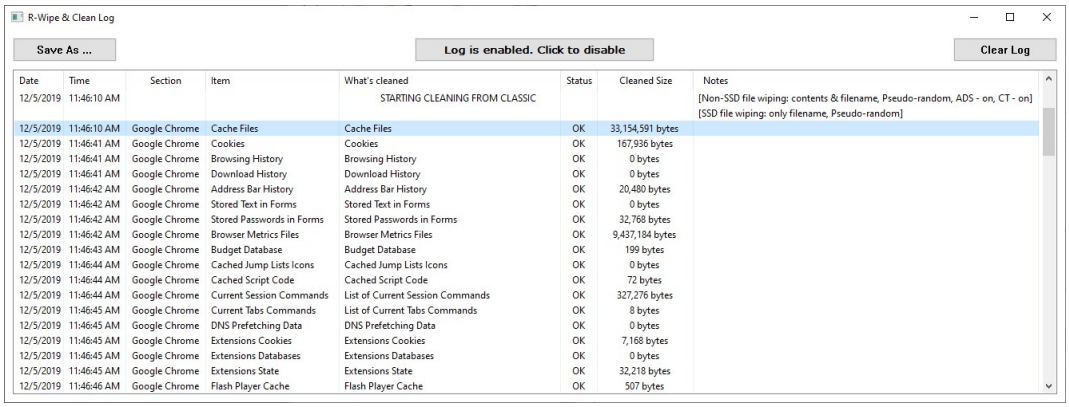
| | |
|---|---|
| Enable Logging | If this option is selected, **R-Wipe & Clean** starts logging its activity. |
| Stealth mode | If this option is selected, **R-Wipe & Clean** conceals its activity. Its icon does not appear in the system tray, no messages pop up, etc. |
| Disable computer standby/hibernation when a long task is running | If this option is selected, your computer will not go into the standby/hibernation mode while long tasks are running allowing them to complete. |
| Set Password | You may protect the program against unauthorized use. If this option is selected, a password will be required to start **R-Wipe & Clean**. All automatic actions will start without asking the password. |

## 2.3 Logging

You may specify log setting and view the log on the **Log** panel. You may reach this panel by selecting **View Log** on the **Main** menu.

The Note column shows the current wiping settings for the SSD disks with TRIM enabled and other disks.

**Log panel**




| Date | Time | Section | Item | What's cleaned | Status | Cleaned Size | Notes |
|---|---|---|---|---|---|---|---|
| 12/5/2019 | 11:46:10 AM | | | STARTING CLEANING FROM CLASSIC | | | [Non-SSD file wiping: contents & filename, Pseudo-random, ADS - on, CT - on] [SSD file wiping: only filename, Pseudo-random] |
| 12/5/2019 | 11:46:10 AM | Google Chrome | Cache Files | Cache Files | OK | 33,154,591 bytes | |
| 12/5/2019 | 11:46:41 AM | Google Chrome | Cookies | Cookies | OK | 167,936 bytes | |
| 12/5/2019 | 11:46:41 AM | Google Chrome | Browsing History | Browsing History | OK | 0 bytes | |
| 12/5/2019 | 11:46:41 AM | Google Chrome | Download History | Download History | OK | 0 bytes | |
| 12/5/2019 | 11:46:42 AM | Google Chrome | Address Bar History | Address Bar History | OK | 20,480 bytes | |
| 12/5/2019 | 11:46:42 AM | Google Chrome | Stored Text in Forms | Stored Text in Forms | OK | 0 bytes | |
| 12/5/2019 | 11:46:42 AM | Google Chrome | Stored Passwords in Forms | Stored Passwords in Forms | OK | 32,768 bytes | |
| 12/5/2019 | 11:46:42 AM | Google Chrome | Browser Metrics Files | Browser Metrics Files | OK | 9,437,184 bytes | |
| 12/5/2019 | 11:46:43 AM | Google Chrome | Budget Database | Budget Database | OK | 199 bytes | |
| 12/5/2019 | 11:46:44 AM | Google Chrome | Cached Jump Lists Icons | Cached Jump Lists Icons | OK | 0 bytes | |
| 12/5/2019 | 11:46:44 AM | Google Chrome | Cached Script Code | Cached Script Code | OK | 72 bytes | |
| 12/5/2019 | 11:46:44 AM | Google Chrome | Current Session Commands | List of Current Session Commands | OK | 327,276 bytes | |
| 12/5/2019 | 11:46:45 AM | Google Chrome | Current Tabs Commands | List of Current Tabs Commands | OK | 8 bytes | |
| 12/5/2019 | 11:46:45 AM | Google Chrome | DNS Prefetching Data | DNS Prefetching Data | OK | 0 bytes | |
| 12/5/2019 | 11:46:45 AM | Google Chrome | Extensions Cookies | Extensions Cookies | OK | 7,168 bytes | |
| 12/5/2019 | 11:46:45 AM | Google Chrome | Extensions Databases | Extensions Databases | OK | 0 bytes | |
| 12/5/2019 | 11:46:45 AM | Google Chrome | Extensions State | Extensions State | OK | 32,218 bytes | |
| 12/5/2019 | 11:46:46 AM | Google Chrome | Flash Player Cache | Flash Player Cache | OK | 507 bytes | |

ADS: wiping of Alternative Data Streams.

CT: wiping of Cluster Tips.

You may enable/disable log, save and clear it.

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## 2.4 Wiping and Cleaning

It is incredible how much your personal information may be found in your computer. Actually, your PC is the best spy on you. It is constantly logging, quietly and accurately, each program you started, document you opened, music or movie you played, each web site you visited, even each printer or other peripheral device you attached. Moreover, it also constantly makes "temporary" copies of any opened file, and not always it erases them when you are through with that file. Contents of deleted files remain on hard drives and can be easily brought back using inexpensive and easily available data recovery utilities. Anyone who can snoop into your computer could make quite an exact profile of you. Such snooping can be made even remotely when you are on the Internet.

**Note:** Files deleted on SSD devices usually cannot be recovered even if they've not been wiped. Read File Erasure on SSD and HDD devices page for details.

To make the things worse, there is no built-in system routines that might clean all those records and links. On the contrary, Windows does everything possible to keep all that data as long as possible. That is why you need to use **R-Wipe & Clean** to protect yourself from such snooping.

- **File Erasure on SSD and HDD devices**
- **Wiping Algorithms**
- **Wiping**
- **Cleaning a Computer**

### 2.4.1 Wiping

**Attention! Wiping files or free disk space on SSD devices is not possible in most cases. Read the File Erasure on SSD and HDD devices page for details.**

**R-Wipe & Clean** disables wiping files and free disk space on such devices by default. You may enable it, but you should understand what you are doing.

***Wiping files***

Simply deleting a file does not mean that the data of this file are gone for good. When you delete a file, even when the **Recycle Bin** is disabled, Windows writes some information on the disk that this particular file should be treated as unneeded, and its space may be allocated for other file. Until data from the next file are written over the deleted one, the deleted data may be easily recovered using inexpensive and easily available data recovery utilities. To completely destroy the data, it must be overwritten, sometimes not once. Such process is called *wiping*. **R-Wipe & Clean** wipes files, making their recovery virtually impossible. It also wipes stored names of deleted files, file's alternate data streams, cluster tips, and records of small files stored directly into NTFS Master Table.

You may wipe a single file selecting **Delete and wipe** on the File Explorer shortcut menu, or several files and folders on the **Wipe Lists** panel.

The default file wiping settings may be set on the **Files Wiping Settings** tab of the **Settings** panel.

***Wiping free disk space***

Even if you have removed all deleted files, that does not mean that no data from them remain on your hard drive. If you have rewritten your files many times, for example, while editing, some previous copies of the files may still remain on the disk without a slightest notice of their existence. Also, Windows constantly writes and deletes its own temporary files on disks. Such files are not visible to users, but may contain some data from your own files and programs. Such pieces of your data still remain even after you format the disk. There are special data

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recover utilities that analyze unused space on disks and can restore many files that you believe to be completely wiped and deleted. **R-Wipe & Clean** wipes unused disk space, making such analysis of disk space useless.

You may wipe unused disk space on a single disk using the Wipe Free Space with R-Wipe & Clean command on the disk's shortcut menu, or on several disks at once on the **Free Drive Space** panel.

The default free disk space wiping settings may be set on the **Free Drive Space Settings** tab of the **Settings** panel.

#### 2.4.1.1 Wiping Files

**Attention! Wiping files on SSD devices is not possible in most cases. Read the File Erasure on SSD and HDD devices page for details.**
**Once wiped, a file cannot be restored! No Windows or third-party data recovery utility can do this!**

**R-Wipe & Clean** deletes rather than wipes files if the **What to wipe** option on the **Settings** panel is set to **Nothing**. Wiping files is disabled on SSD devices by default. You may enable it, but you should understand what you are doing.

### *Wiping a Single File*

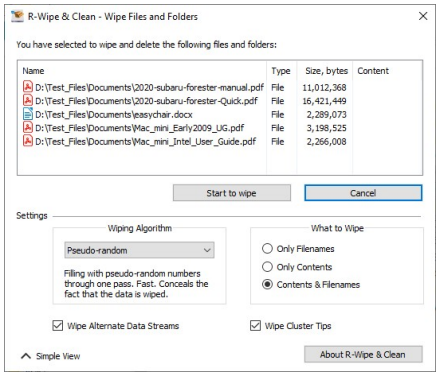
You do not have to start **R-Wipe & Clean** to wipe and delete a single file or several files. You may do this from **File Explorer**. Make sure that you have the **Wipe files and folders directly from the shortcut menu** option selected on the **Integration** tab of the **Settings** panel.

**To wipe a file or several files,**

- Select and right-click the file(s) in **File Explorer** and select **Wipe and Delete with R-Wipe & Clean** on the shortcut menu.

The **Wipe File Explorer** dialog box will appear.

**Wipe File Explorer dialog box**




- Click the **Start to wipe** button, and **R-Wipe & Clean** will wipe the file(s) with default wiping settings.

If you want to change the wiping settings for this file, click the **Advanced View** button

### *Wiping Several Files and Folders at Once*

If you want to delete and wipe several files at once, go to the **Wipe Lists** section for details.

### *Wiping the Recycle Bin*

You do not have to start **R-Wipe & Clean** to wipe the contents of the **Recycle Bin**. You may do this from its shortcut menu. Make sure that the **Wipe the Recycle Bin from the shortcut menu** option on the **Integration** tab of the **Settings** panel is selected.

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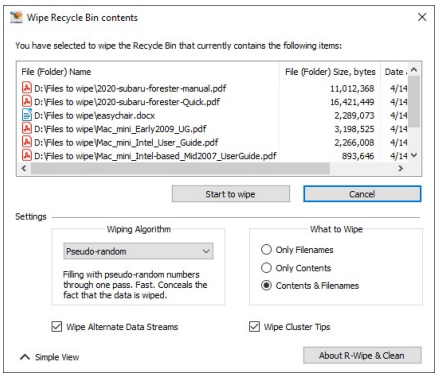
### To wipe the contents of the Recycle Bin,

- Right-click the **Recycle Bin** and select **Wipe with R-Wipe & Clean** on the shortcut menu.

The **Wipe Recycle Bin contents** dialog box will appear.

**Wipe Recycle Bin contents dialog box**




- Click the**Start to wipe** button, and **R-Wipe & Clean** will wipe the **Recycle Bin** with default wiping settings.

If you want to change the wiping settings for this file, click the **Advanced View** button

Default file wiping settings may be specifically set on the **Files Wiping Settings** tab of the **Settings** panel.

### *Wiping File Alternative Data Streams*

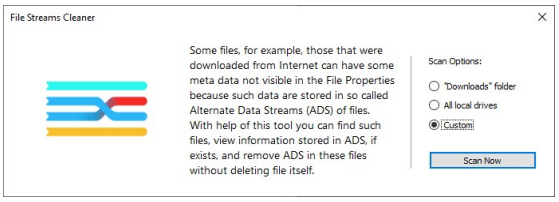
File Alternative Data Stream (ADS) is a set of metadata used to store some additional info for a file. For example, Internet Explorer uses it to store the zone identifier  the file was downloaded from. . (My Computer, Local Intranet Zone, Trusted sites Zone, Internet Zone, Restricted Sites Zone).

### To wipe file alternative data streams,

- Click the File Streams Cleaner on the **Tools** menu.

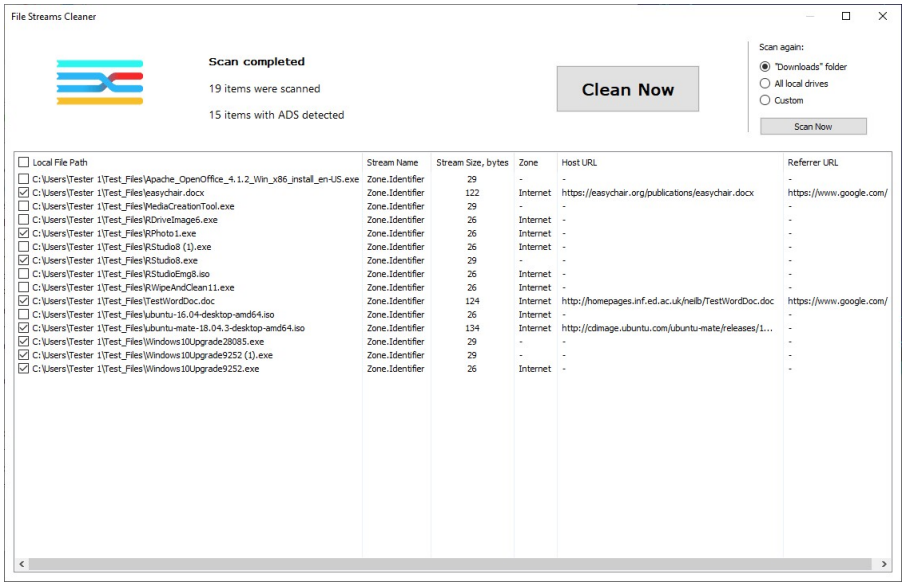
The **File Streams Cleaner** dialog box will appear.

**File Streams Cleaner dialog box**




- Select the required **Scan Options** and click the **Scan Now** button and when the scan is completed, **R-Wipe & Clean** will show the results of the scan.

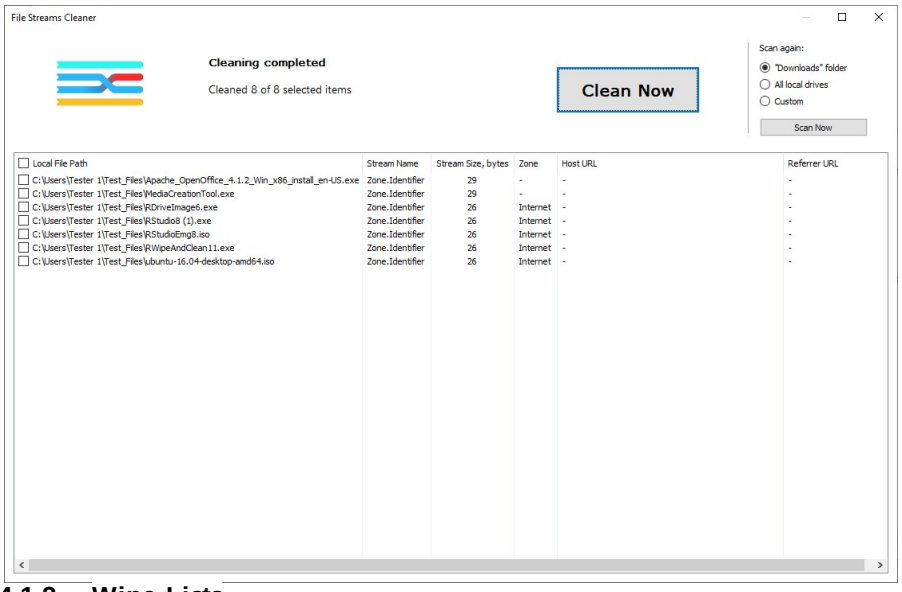
**File Streams Cleaner dialog box**




- Select the required files and click the **Clean Now** button.
  You may use the Ctrl+A shortcut to select all the lines and then copy them to the clipboard using the Ctrl+C shortcut.

The **File Streams Cleaner** will start cleaning alternative data streams of the selected files. When cleaning finishes, **R-Wipe & Clean** will show the results.

**File Streams Cleaner dialog box**




### 2.4.1.2 Wipe Lists

You may specify files and folders, and registry keys or key values that will be wiped and deleted through a single wipe and delete task on the **Wipe Lists** panel. Moreover, you may store such ***wipe lists*** to retrieve them and wipe later. You may also include wipe lists into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

Some programs have their own temporary or scratch folders. It is wise to have them included in such wipe lists if you want to completely erase all temporary data from such programs.

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**Attention! Once wiped, a file cannot be restored! No Windows or third-party data recovery utility can do this!**

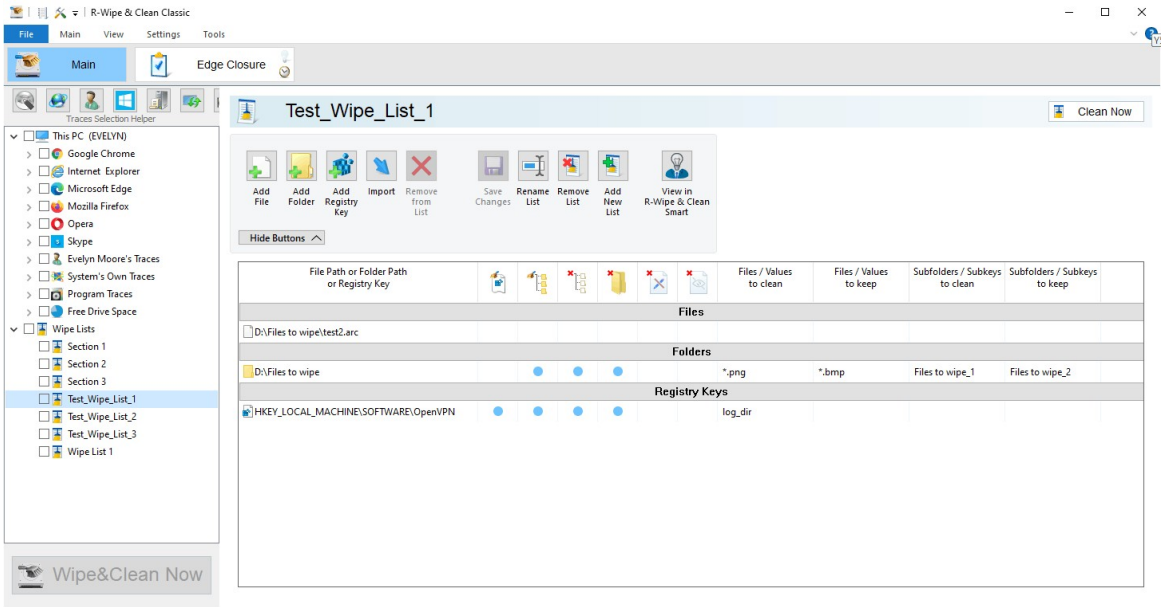
### *Wiping wipe lists*

**To wipe a single wipe list,**

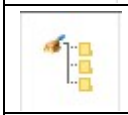
- Select the required wipe list on the tree

The contents of the selected wipe list will appear in the right pane.

**Wipe Lists section**




***Item Cleaning Icons***

| | |
|---|---|
| | Registry key: The value will be cleaned. |
|  | Clean subfolders: All child subfolders will be cleaned recursively. |
| | Delete empty subfolders: All empty subfolders will be deleted. |
| | Delete folder: A folder or key will be deleted if it becomes empty. |
| | Delete read-only files |
| | Delete hidden files |

- Click the **Clean Now** button on the right pane.

**R-Wipe & Clean** will start cleaning the contents of the wipe list.

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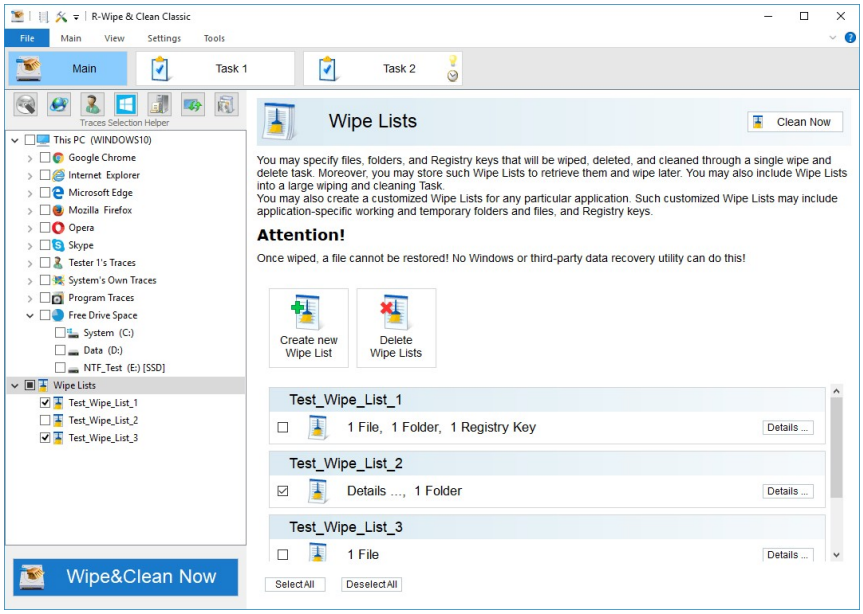
**To wipe several wipe list at once,**

- Select the required wipe lists on the tree

**Wipe Lists** section




- Click the **Clean Now** button.

**R-Wipe & Clean** will start wiping the wipe list.

### *Managing wipe lists*

You may also manage wipe lists form the tab of a single wipe list using the **wipe list management** buttons.

⊞ ***More information...***

| | |
|---|---|
| **To create a new wipe list,**<br>• In the Tree, go to the **Wipe Lists** section<br>• Click the **Create new Wipe List** button.<br>A new wipe list will appear in the right pane. | **To remove a wipe list,**<br>• In the Tree, go to the **Wipe Lists** section<br>• Click the **Remove List** button.<br>**R-Wipe & Clean** will remove the wipe list. |
| **To save a new wipe list,**<br>• In the Tree, go to the required **Wipe List**<br>• Click the **Save Changes** button on the **wipe list management** buttons. | **To rename a wipe list,**<br>• In the Tree, go to the required **Wipe List**<br>• Click the **Rename List** button on the **wipe list management** buttons and enter a new name.. |

### *Managing files/folders in wipe lists*

You may add a file or/and folder to the current wipe list directly from **File Explorer.** Right-click the file and select the **Add to the Wipe List** item from the shortcut menu. Make sure that the **Add files and folders to a wipe list from the shortcut menu** option is enabled on the **Integration** tab of the **Settings** panel.

You may add a single file by dragging and dropping it to the **Wipe List**.

You may add/remove files and folders to/from the list using the **file management** buttons. When you add a folder to the wipe list, the **Add folder...** dialog box will appear. You may set a file mask for files in the folder and specify files that are not to be cleaned if they even match the file masks.

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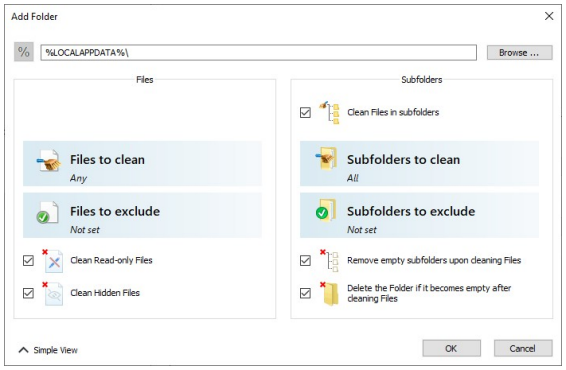
**Add folder... dialog box**



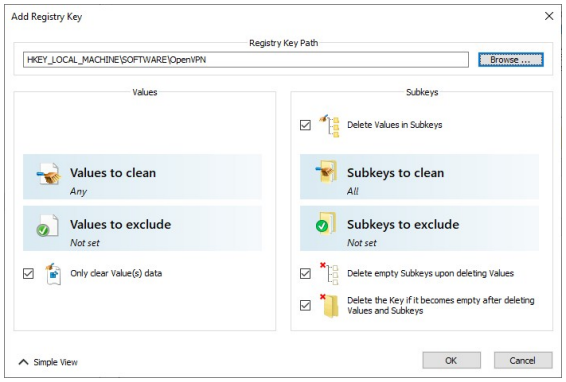

***Add folder options***

| | |
|---|---|
| % | Adds an environment variable. |
| Files to clean | Specifies file masks to clean files in this folder. |
| Files to exclude | Specifies file masks to exclude files from cleaning in this folder |
| Subfolders to clean | Specifies subfolders to clean in this folder. |
| Subfolders to exclude | Specifies subfolders to exclude from cleaning in this folder. |
| Clean files in subfolders | If this option is selected, files in subfolders will be cleaned. |
| Remove empty subfolders upon cleaning files | If this option is selected, the folders will be deleted when its content is cleaned. |
| Delete the folder if it becomes empty after cleaning files | If this option is selected, the folder will be deleted if it becomes empty after cleaning files in it. |
| Clean Read-only Files | If this option is selected, read-only files will be cleaned, too. |
| Clean Hidden Files | If this option is selected, hidden files will be cleaned, too. |

### *Managing Registry keys in wipe lists*

You may also add a key or specific value in a key from Registry that will be deleted.

**Add Registry Keys/Values dialog box**




***More information...***

| | |
|---|---|
| **To add a registry key or key values to a wipe list,**<br>• In the **Tree**, select the required wipe list<br>• Click the **Add Registry Key** button on the **file management** buttons and select the required Registry key or separate key | **To remove a registry key or key values from a wipe list,**<br>• In the **Tree**, select and click the required wipe list |

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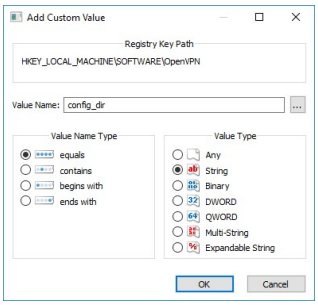
| | |
|---|---|
| value on the **Add Registry Key** dialog box to add them to the wipe list.<br>You may add either all values in the selected key, or only specific values in it.<br>The added Registry keys or values will appear in the wipe list.<br>You may also add arbitrary custom values. Click the Add Custom Value button and specify the required values.<br>**Add Custom Value dialog box**<br>  | • Select a registry key or key values you want to remove and click the **Remove from List** button on the **file management** buttons.<br>The selected registry key or key values will be removed from the list. |

You may also import items from other wipe lists using the **Import** button on the **file management** buttons

Default file wiping settings may be specifically set on the **Files Wiping Settings** tab of the **Settings** panel.

2.4.1.2.1 R-Wipe & Clean Smart overview

**R-Wipe & Clean Smart** is a standalone tool that allows you to create very versatile Wipe Lists and clean their content. You may specify files, folders, and Registry keys for cleaning.

The wipe lists may be exported and imported for deployment among several computers.

Please note that you should completely understand what are you doing when using **R-Wipe & Clean Smart**. It gives you absolute freedom in removing various Registry keys and files, but its incorrect usage may cause severe damage to your system, so a great caution is required.

2.4.1.2.1.1 R-Wipe & Clean Smart Main Panel

**Note:** Some operations, such as wiping a file, wiping and deleting the contents of the Recycle Bin on a single disk, can be performed directly from the shortcut menu without starting **R-Wipe & Clean**.

When **R-Wipe & Clean Smart** starts, its main panel appears.

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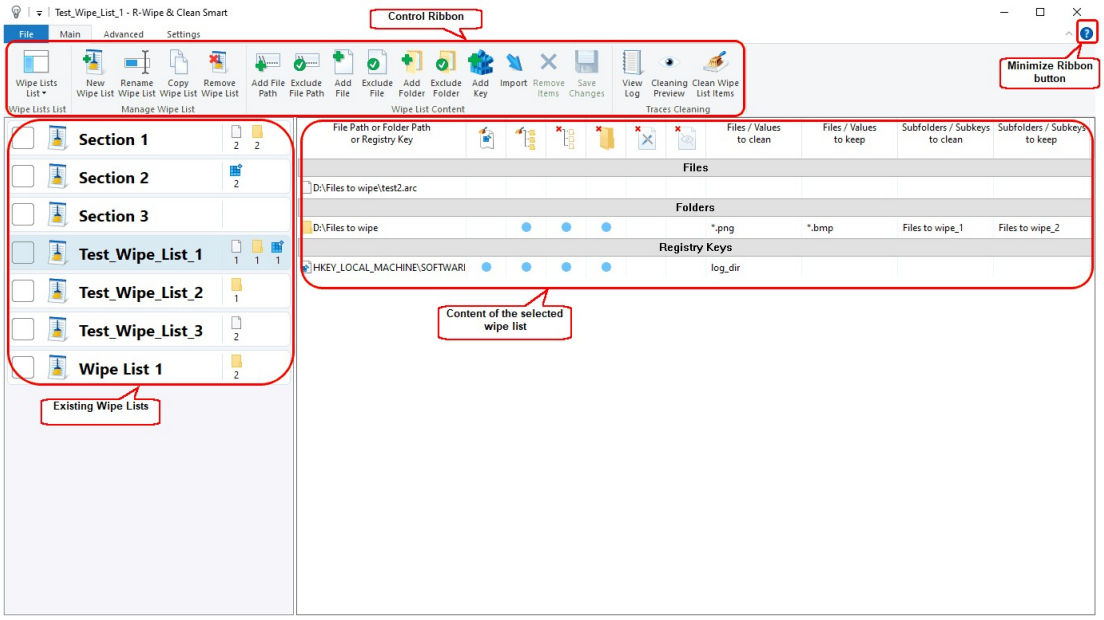
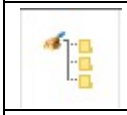
**R-Wipe & Clean Smart main panel**




***Item Cleaning Icons***

| | |
|---|---|
| | Registry key: The value will be cleaned. |
|  | Clean subfolders: All child subfolders will be cleaned recursively. |
| | Delete empty subfolders: All empty subfolders will be deleted. |
| | Delete folder: A folder or key will be deleted if it becomes empty. |
| | Delete read-only files |
| | Delete hidden files |

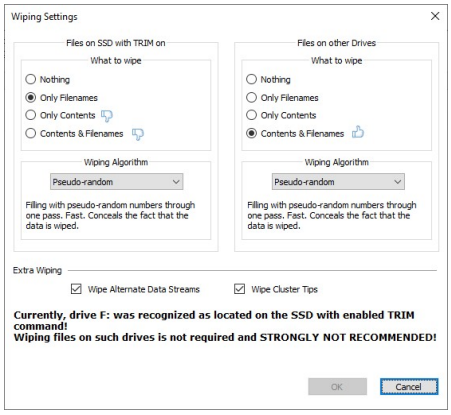
2.4.1.2.1.2 Settings

You may reach the **Settings** panel(s) from the **File** menu on the **Main** panel or on the **Settings** tab.

***Files Wiping Settings***

You may set default wiping setting for separate files on this panel.

**Wiping Settings panel**



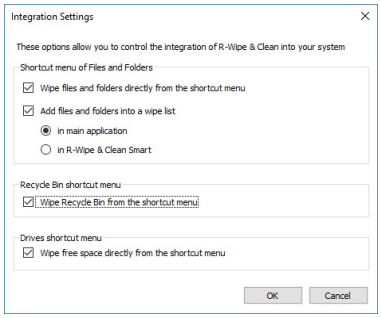

***Wiping Settings***

| | |
|---|---|
| Files on SSD with TRIM on | You may select what will be wiped on SSD devices with the enabled TRIM command.<br>**Note:** Content wiping is not recommended for TRIM-enabled SSD devices. Read the File Erasure on SSD and HDD devices page for more details. |
| Files on other Drives | You may select what will be wiped on conventional HDDs and SSDs with the disabled TRIM command. |
| What to wipe | You may specify how filest will be wiped. |
| Wiping algorithm | You may select a default algorithm for wiping disks. To learn more about wiping algorithms, go to **Wiping Algorithms**. |
| Wipe alternate data streams: | (Effective to the NTFS file system only). If this option is selected, **R-Wipe & Clean** wipes all streams associated with the file. |
| Wipe cluster tips | If this option is selected, **R-Wipe & Clean** also wipes free parts of file clusters. |

***Integration Settings***

You may set options controlling the integration of **R-Wipe & Clean Smart** into your system on this panel.

**Integration panel**




***Integration Settings***

| | |
|---|---|
| Shortcut menu of Files and Folders | |
| Wipe files and folders directly from the shortcut menu | If this option is selected, the **Delete and Wipe** item will be added to the shortcut menu in Files and Folders. Using this item, you may delete |

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| | |
|---|---|
| | and wipe files and folders directly from Files and Folders. |
| Add files and folders into a wipe list | If this option is selected, the **Add to the Wipe List** item will be added to the shortcut menu in Files and Folders. Using this item, you may add files and folders to a wipe list directly from Files and Folders to **R-Wipe & Clean** or **R-Wipe & Clean Smart**. |
| Recycle Bin shortcut menu | |
| Wipe Recycle Bin from the shortcut menu | If this option is selected, the **Wipe and Empty** item will be added to the shortcut menu in **the Recycle Bin**. Using this item, you may wipe files and folders directly from **the Recycle Bin**. |
| Drives shortcut menu | |
| Wipe free space directly from the shortcut menu | If this option is selected, the **Wipe Free Space with R-Wipe & Clean** command will be added to the shortcut menu of every logical disk. Using this item, you may wipe free disk space from the shortcut menu. |

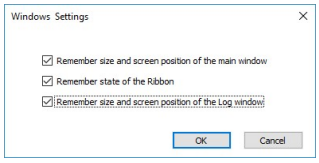
#### *INI Import Settings*

You may specify some parameters necessary to create wipe lists from imported INI files.
Go to the Using INI File Format for Import page for more information.

#### *Windows Settings*

You may specify setting for how **R-Wipe & Clean Smart** keeps the positions and states of various program windows.

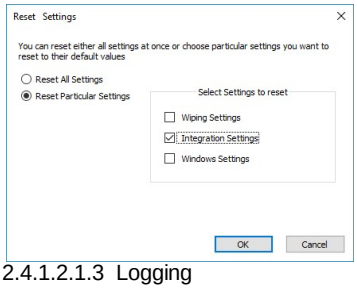
**Trees and Windows Setings panel**




### *Resetting to Defaults*

You may reset all or individual settings on the **Reset Settings** panel.

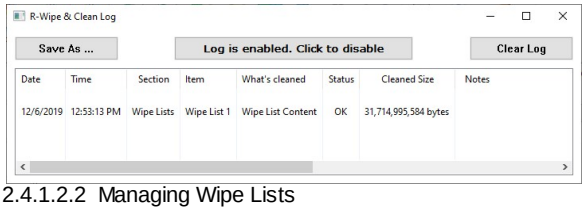
**Reset Settings panel**




2.4.1.2.1.3 Logging

You may specify log setting and view the log on the **Log** panel. You may reach this panel either by selecting **View Log** on the **Main** menu.

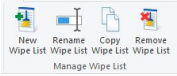
**Logs panel**




2.4.1.2.2 Managing Wipe Lists

You can manage wipe lists using the **Manage Wipe List** buttons on the **Main** menu.

**Manage Wipe List buttons**




### *Creating a New Wipe List*

**To create a new wipe list,**

- Click the **New Wipe List** button on **the Main** menu.

A new empty wipe list will appear in the list of wipe lists. Go to the Managing Items in a Wipe List page for more information on how to add various items to clean.

### *Modifying an Existing Wipe List*

- Select the required wipe list, make necessary alterations, and click the **Save Changes** button on the **Main** menu.

### *Deleting an Existing Wipe List*

- Select the required wipe list and click the **Remove Wipe List** button on the **Main** menu.

### *Copying an Existing Wipe List*

- Select the required wipe list and click the **Copy Wipe List** button on the **Main** menu.

### *Cleaning a Wipe List*

- Select the required wipe list and click the **Clean Wipe List Items** button on the **Main** menu.

### *Searching the Registry for a Certain Item*

- Use the Registry Search & Clean item on the Advanced menu.

2.4.1.2.2.1 Managing Items in a Wipe List

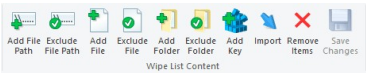
### *Managing Files and Folders*

You may add a file or/and folder to the current wipe list directly from **File Explorer**. Right-click the file and select the **Add to the Wipe List** item from the shortcut menu. Make sure that the **Add files and folders to a wipe list from the shortcut menu** option is enabled on the **Integration** panel of **Settings**.

You can manage items to clean in a wipe list using the **Wipe List Content** buttons on the **Main** menu.

You may also convert absolute paths to environment variables and vise verse using the **Convert to EnvVars** and **Convert from EnvVars** buttons on the **Advanced** menu

**Wipe List Content buttons**

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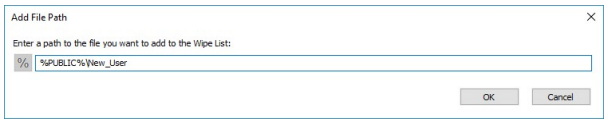
You may add/exclude ether already existing files/folders or arbitrary paths (even currently non-existent).

***Arbitrary paths:***

**To add/exclude an arbitrary path to a wipe list,**

- Click the **Add/Exclude File Path** button

**Add File Path dialog box**

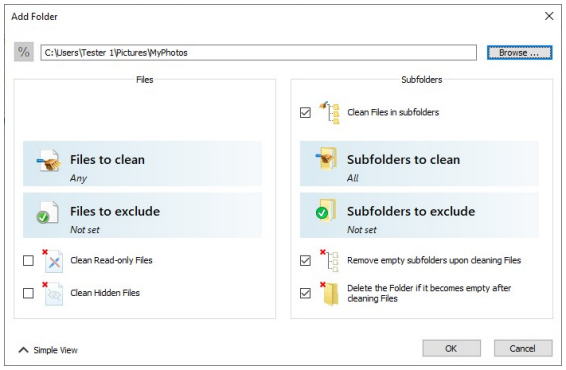



And enter the path. Use the **%** button to add an environment variable.

***Existing files/folders.***

When you add a folder to the wipe list, the **Add folder...** dialog box will appear. You may set a file mask for files in the folder and specify files that are not to be cleaned if they even match the file masks.

**Add folder... dialog box**

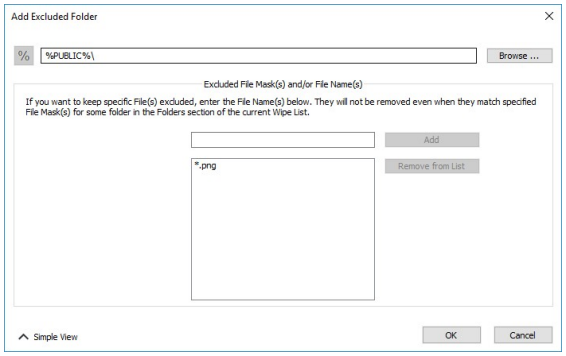



***Add folder options***

| | |
|---|---|
| Files to remove/exclude | Specifies file and file mask to clean/exclude files in the folder. |
| Clean files in subfolders | If this box is checked, all sub-folders will also be cleaned. |
| Remove empty subfolders upon cleaning files | If this box is checked, the folders will be deleted when its content is cleaned. |
| Delete the folder if it becomes empty after cleaning files | If this option is selected, the folder will be deleted if it becomes empty after cleaning files in it. |

You may specify folders and files that will be excluded from removal. Click the **Exclude Folder...** button and specify a folder path and a file mask for files in the folder that are not to be cleaned.

**Add excluded folder... dialog box**

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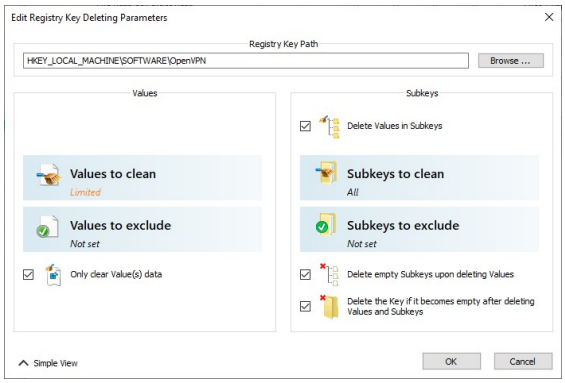
### *Managing Registry keys in wipe lists*

You may also add a key or specific value in a key from the Registry that will be deleted.

**Add Registry Keys/Values dialog box**




***More information...***

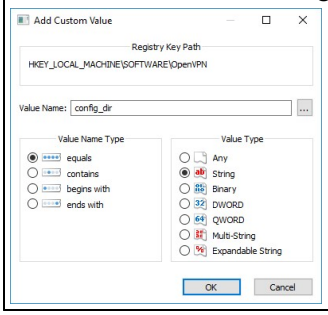
**To add a registry key or key values to a wipe list,**

- In the **Wipe Lists List**, select the required wipe list
- Click the **Add Registry Key** button on the **Main** menu and select the required Registry key or separate key value on the **Add Registry Key** dialog box to add them to the wipe list.
  You may add either all values in the selected key, or only specific values in it.

The added Registry keys or values will appear in the wipe list.

You may also add arbitrary custom values. Click the Add Custom Value button and specify the required values.

**Add Custom Value dialog box**




**To remove a registry key or key values from a wipe list,**

- In the **Wipe Lists List**, select and click the required wipe list
- Select a registry key or key values you want to remove and click the **Remove from List** button on the **Main** menu.

The selected registry key or key values will be removed from the list.

You may also import items from other wipe lists using the **Import** button on the **Main** menu.

Default file wiping settings may be specifically set on the **Files Wiping Settings** panel.

### *Previewing contents of wipe lists*

You may also view the content of a folder in a wipe list. Use the Cleaning Preview button for that.

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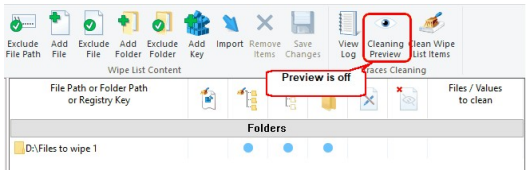
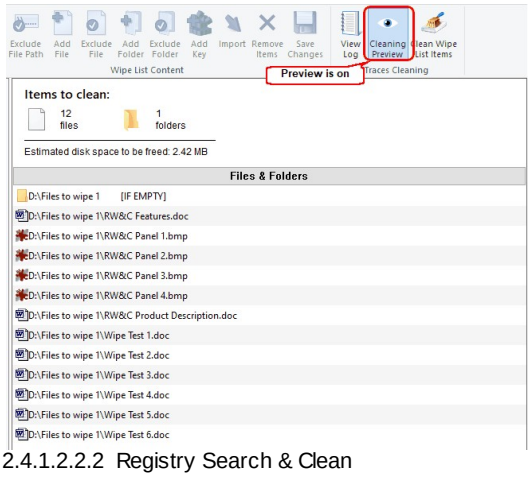
**Preview is off**




**Preview is on**




2.4.1.2.2.2 Registry Search & Clean

You may search for various items in the Registry using the Registry Search & Clean item on the **Advanced** menu. Found items can be added to certain wipe lists.

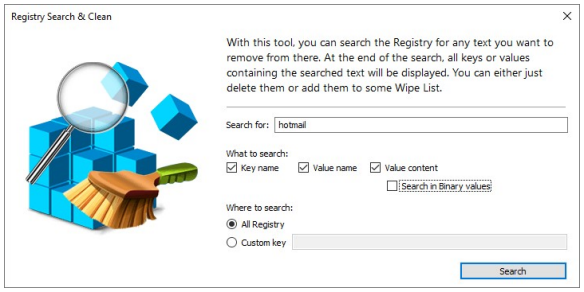
**To find an item in the Registry**

1. Click the **Registry Search & Clean** button

**Registry Search & Clean buttons**

2. Specify the item to search for

**Registry Search**




and click the Search button.

> Registry Search & Clean will start searching for this items in all specified categories.

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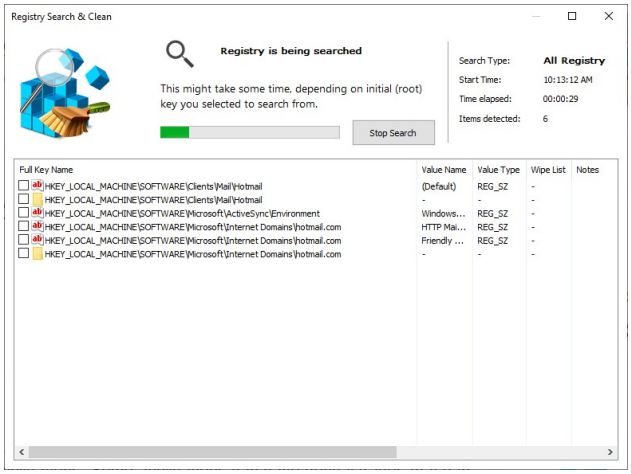
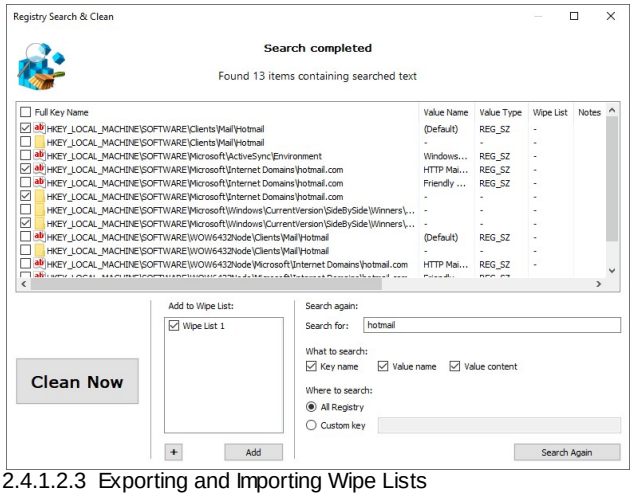
**Searching the Registry**




3. Select the items you want to add to a certain wipe list.

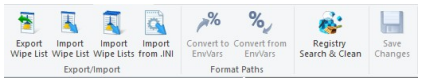
**Searching the Registry**




2.4.1.2.3 Exporting and Importing Wipe Lists

You can export and import wipe lists using the **Export/Import** buttons on the **Advanced** menu. That is useful when you want to deploy those wipe lists on many computers. It used its own proprietary format with the `rwcwl` file extension.

**Export/Import buttons**




### *Import from .INI files*

You may also import wipe lists in the .INI file format. This format is described in detail on the Using INI Files for Import page.

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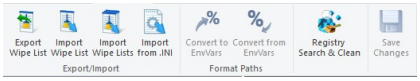
2.4.1.2.4 Using INI File Format for Import

You may import wipe lists specified in the `.ini` file format using the **Import from .INI** button.

**Export/Import buttons**




You may use this file format to create wipe lists manually.

***INI file format for wipe lists***

An INI file has the following structure:

```
[Section 1]
Key11=Value11
...
Key1N=Value1N
...
[Section N]
KeyN1=ValueN1
...
KeyNN=ValueNN
```

Each key name in the section must have a unique name, otherwise the entire section will be skipped.

***Key values***

| Key Name | Key Value | Key Effect |
|---|---|---|
| `File...` | | |
| | A full path to a file. | The file will be removed. |
| | A full path to a folder followed by a vertical bar and .and a list of file names and/or file masks separated by semicolons. | The files in that particular folder matching to the file lists and file masks will be removed. |
| `Folder...` | A full path to a folder | The folder and its content will be removed, but its sub-folders will remain. |
| `RegKey...` | A full path to the Registry key | The Registry key will be deleted. |
| | A full path to the Registry key followed the a vertical bar and value name(s). | That particular value of the Registry key will be deleted. |
| `Exclude...` | A full path to a file. | The file will be excluded from removal. |
| | A full path to a folder followed by a vertical bar and .and a list of file names and/or file masks separated by semicolons. | The files in that particular folder matching to the file lists and file masks will be excluded from removal. |

***Simple Key Examples:***

```
[Section 1]
```

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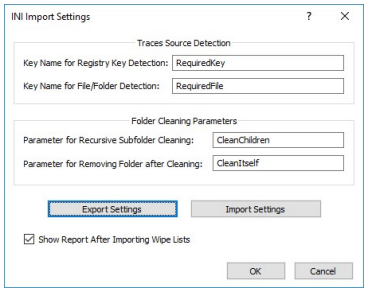
| | |
|---|---|
| `File1=D:\My Docs\Working.log` | The `Working.log` file in the `D:\My Docs\` folder will be removed |
| `File2=%LocalAppData%\CompanyName\ProductName\Logs\Activity.log` | The `%LocalAppData%` environment variable is used to specify the path to the `Activity.log` file. |
| `File3=D:\My Docs\Errors\|*.log;*.cache` | Files with the `log` and `cache` extensions in the `D:\My Docs\Errors` folder will be removed. |
| `Folder1=%LocalAppData%\CompanyName\AppName\Logs` | The content of the `%LocalAppData%\CompanyName\AppName\Logs` folder will be removed, but its sub-folders will remain. The path to the folder contains the `%LocalAppData%` environment variable. |
| `[Section 2]` | |
| `RegKey1=HKCU\Software\CompanyName\AppName\RecentFiles` | The entire `HKCU\Software\CompanyName\AppName\RecentFiles` Registry key will be deleted. |
| `RegKey2=HKCU\Software\Company\App\|LastSaveDir` | The `LastSaveDir` value will be removed from the `HKCU\Software\Company\App` Registry key. |
| `[Section 3]` | |
| `Exclude1=%LocalAppData%\Company\Product\Logs\Error.log` | The `Error.log` file in the `%LocalAppData%\Company\Product\Logs` folder will not be removed. The path to the folder contains the `%LocalAppData%` environment variable. |
| `Exclude2=D:\My Docs\Manage\|*.receipt;*.report` | Files with the `receipt` and `report` extensions in the `D:\My Docs\Manage` folder will not be removed. |

### *More Complex Key Examples:*

Some import actions require more complex settings. Those settings are specified on the **INI Import Settings** dialog box on the **Settings** menu. Those settings can be saved and loaded later.

**INI file import settings**




## Cleaning subfolders

By default, when you specify a folder to clean, all its subfolders will remain. To clean the subfolders the following should be done:

- Specify a parameter in the **Parameter for Recursive Subfolder Cleaning** field on the **INI Import Settings** dialog box. In our example, it is **CleanItself**.
- Add this parameter to the `Folder` or `File` key:

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| | |
|---|---|
| `File1=D:\My Docs\|*.log\|CleanChildren` | All files with the `log` extension in the `D:\My Docs\` folder will be removed, and all its subfolders will be removed, too. |
| `Folder1=%LocalAppData%\CompanyName\AppName\Logs\|CleanChildren` | The content of the `%LocalAppData%\CompanyName\AppName\Logs` folder will be removed, together with all subfolders. |

### Removing the folder after cleaning

- Specify a parameter in the **Parameter for Removing Folder after Cleaning** field on the **INI Import Settings** dialog box. In our example, it is **CleanItself**.
- Add this parameter to the `Folder` or `File` key:

| | |
|---|---|
| `File1=D:\My Docs\|*.log\|CleanItself` | All files with the `log` extension in the `D:\My Docs\` folder will be removed, and all its subfolders will be removed, too. |
| `Folder1=%LocalAppData%\CompanyName\AppName\Logs\|CleanItself` | The `%LocalAppData%\CompanyName\AppName\Logs` folder will be removed, with all its content. |

### Importing a section only if it contains a specific Registry key or file/folder

It can be done by specifying **Key Name for Registry Key Detection** and **Key Name for File/Folder Detection** parameters on the **INI Import Settings** dialog box. In our case, they are **RequiredKey** and **RequiredFile**.

If you want to import only those sections that contain HKCU\Software\Company\App\8.0 and %LocalAppData%\CompanyName folder, the sections should contain the following:

```
[Section 1]
RequiredKey1=HKCU\Software\Company\App\8.0
Key1=HKCU\Software\Company\App\8.0

[Section 2]
RequiredKey1=HKCU\Software\Company\App\8.0
Key1=HKCU\Software\Company1\
```

Section 1 will be imported, while Section 2 will not.

```
[Section 3]
RequiredFile1=%ProgramFiles%\Company\Product
File1=%ProgramFiles%\Company\Product

[Section 4]
RequiredFile1=%ProgramFiles%\Company\Product
File1=%ProgramFiles%\Company\Product28
```

Section 3 will be imported, while Section 4 will not.

### *INI file format for wipe lists*

- Click the Import from INI file button and select the required file.

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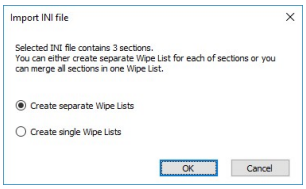
**Export/Import** buttons

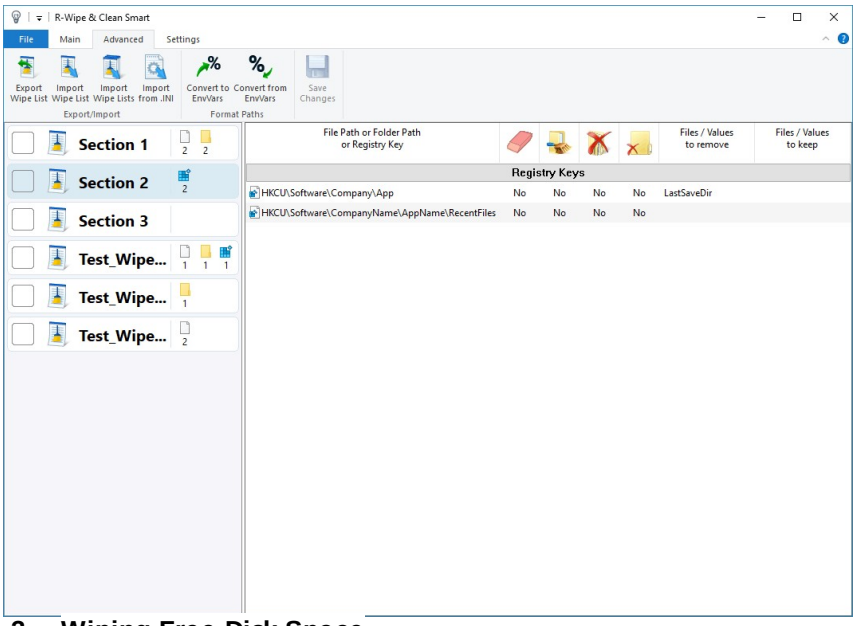
You may import the entire INI file as a single wipe list or each section as a separate wipe list.

**Import INI files** dialog box




The resulting wipe list(s) will appear on the list of wipe lists.

**Import result**




### 2.4.1.3 Wiping Free Disk Space

**Attention! Wiping free disk space for SSD devices is not required in most cases. Read the File Erasure on SSD and HDD devices page for details.**

**R-Wipe & Clean** disables wiping free disk space on such devices by default. You may enable it, but you should understand what you are doing. The only important part that should be cleaned even on an SSD device is MFT on NTFS disks. The best wiping algorithms for that are zeros or pseudo-random numbers.

Disk data you can wipe depends on your user account type and Windows version.

***Data that can be wiped:***

| | | System Disk | | Non-System Disk | |
|---|---|---|---|---|---|
| | | **Free space** | **MFT** | **Free space** | **MFT** |
| **Windows 10** | **Administrator** | Yes | Yes | Yes | Yes |
| | **User (Standard Account)** | Yes | No | Yes | Yes |
| | **Guest** | No | No | No | No |

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| | | | | | |
|---|---|---|---|---|---|
| **Windows 8/8.1** | **Administrator** | Yes | Yes | Yes | Yes |
| | **User (Standard Account)** | Yes | No | Yes | Yes |
| | **Guest** | No | No | No | No |
| **Windows 7** | **Administrator** | Yes | Yes | Yes | Yes |
| | **User (Standard User)** | Yes | No | Yes | Yes |
| | **Guest** | No | No | No | No |

**Attention! When a disk is wiped, all previously deleted files cannot be restored! No Windows or third-party data recovery utility can do this!**

### *Wiping free disk space on a single disk*

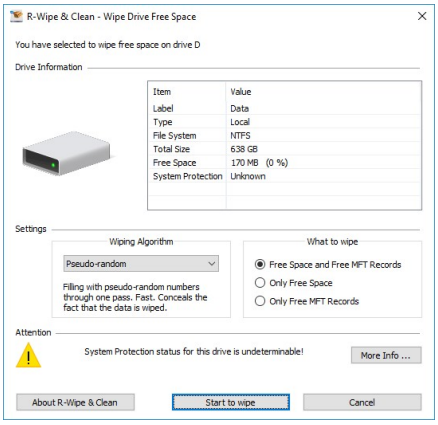
You do not have to start **R-Wipe & Clean** to wipe unused space on a single disk. You may do this from **File Explorer**. Make sure that the **Wipe free space directly from the shortcut** menu option is selected on the **Integration** tab of the **Settings** panel.

**To wipe unused disk space on a single disk,**

- Right-click the disk in **File Explorer**, and select **Wipe free space with R-Wipe & Clean** on the menu.

The **R-Wipe & Clean** tab will appear.

**R-Wipe & Clean** tab




- Select the wiping settings for this disk and click the **Wipe now** button.

**R-Wipe & Clean** will start wiping the disk, and the **Wiping** dialog box will appear showing the wiping progress. When **R-Wipe & Clean** finishes wiping, the **Report** dialog box will appear.

### *Wiping free disk space on several disks*

**To wipe unused disk space on several disks,**

- Select **Free Drive Space**

The **Free Drive Space** tab will appear in the right pane.

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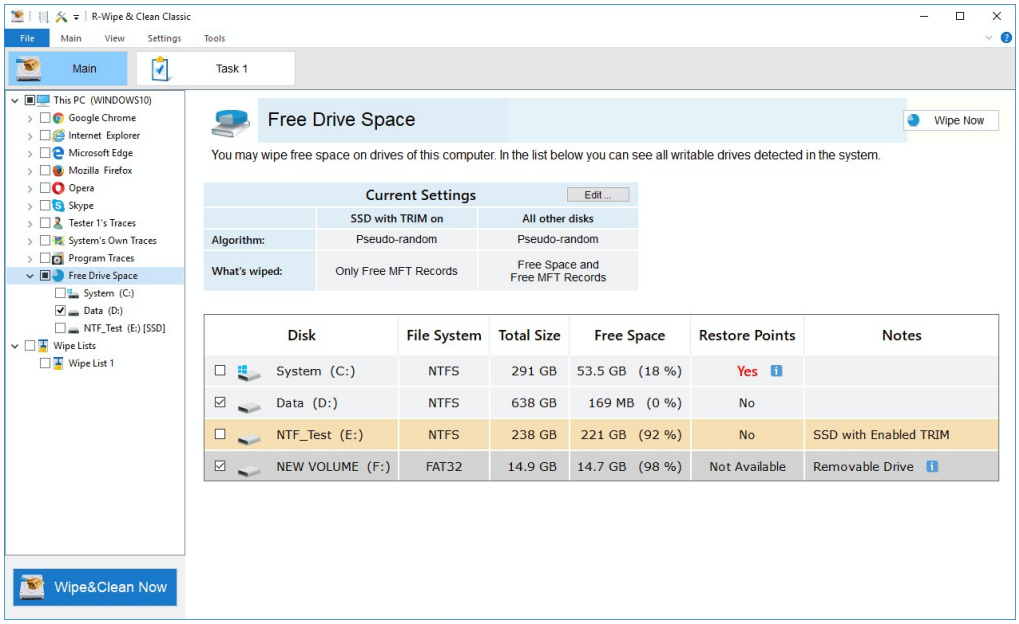
**Free Drive Space panel**




- Select the disks you want to wipe.
- If necessary, change the wiping settings, and click the **Wipe Now** button. Default disk wiping settings may be set on the **Free Drive Space Wiping Settings** tab of the **Settings** panel. To learn more about wiping algorithms, go to the **Wiping Algorithms** page.

**R-Wipe & Clean** will start wiping the disk, and the **Wiping** dialog box will appear showing the wiping progress. When **R-Wipe & Clean** finishes wiping, the **Report** dialog box will appear.

You may interrupt wiping. Click the **Stop** button. Wiping will be stoped, and the **Report** dialog box will appear, showing how much of unused space has been wiped.

You may also select the disks to wipe on the left tree and click the Wipe&Clean Now button. Disks selected for wiping in the tree may be included into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

**Note!** Removable storage devices appears in the right tab only. This is done to prevent including such devices into a large wipe and clean task.

### 2.4.2 Cleaning a Computer

Your computer stores very many traces of your activity like links to visited web sites or recently opened documents. It also keeps contents, such as pictures, texts, flash movies, audio files from visited web pages. Any snooper who has access to this information can easily tell where and when you have been, or how long you have been on a certain web site. Deleting caches and histories will not help, as Windows stores such information in many, and not easily accessible, places. **R-Wipe & Clean** unrecoverably deletes such information and files.

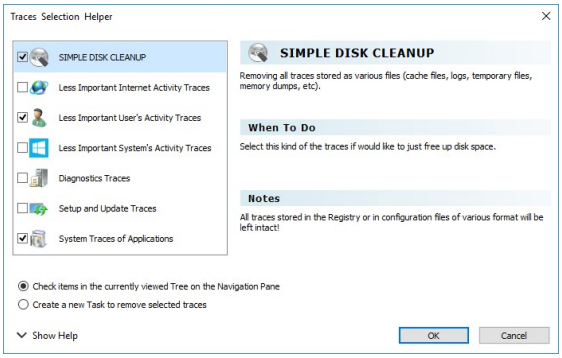
All traces are divided into the following parts:

- On-line Activity:
- Personal data
- System's Own traces:
- Program Traces

Default cleaning settings may be specifically set on the **Files Wiping Settings** tab of the **Settings** panel.

You may use **Traces Selection Helper** to quickly select some most common traces to clean. You may reach it by selecting **Traces Selection Helper** on the **Main** menu.

**Traces Selection Helper panel**




***Traces Selection Helper Items***

| | |
|---|---|
| SIMPLE DISK CLEANUP | If you want to just free up disk space then it's enough to check this item.<br>**R-Wipe & Clean** will remove all traces stored as various files (cache files, logs, temporary files, memory dumps, etc).<br>However, all traces stored in the Registry or in configuration files of various format will be left intact! |
| Less Important Internet Activity Traces | Select these traces if you worked online with some web browser or Skype.<br>Your personalized settings for webpages (cookies, saved passwords, etc) will be left intact!<br>You can remove such traces by selecting root item of the corresponding web browser or Skype on the Navigation tree.<br>In addition to web browsers and Skype, there are various applications that use Internet and keep web traces but such traces aren't to be removed here. |
| Less Important User's Activity Traces | By selecting these traces, you can remove commonly created traces for the current user even if you do nothing on this PC.<br>This will also remove the traces created by system components used in the applications.<br>For example, traces left after using Open and/or Save dialogs in some applications. |
| Less Important System's Activity Traces | Here you can remove the traces created by the system even if you do nothing on this PC.<br>Administrative rights are required for removing these traces! |
| Diagnostics Traces | Here you can remove traces created after errors in applications or system (error reports, dump files, etc).<br>Many applications can create such traces without notifying you.<br>Removing these traces will free some space on the drive but can make it difficult to troubleshoot error issues. |
| Setup and Update Traces | Here you can remove traces created after installation your system, as well as after each of its updates. |

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| | |
|---|---|
| | Removing these traces can free large amount of disk space but can make it difficult to troubleshoot installation issues.<br>It's recommended to remove such traces after a Windows Update installation. |
| System Traces of Applications | Here you can remove the traces that can be left in the system after removing various applications.<br>It's recommended to remove such traces after removing large applications that were installed via installer. |

#### 2.4.2.1 Cleaning Internet Activity

You may clean your computer from many traces and links from your Internet activity that your computer stores in many places. You may include Internet activity cleaning into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

**R-Wipe & Clean** automatically detects most popular web browsers and shows them in its **Tree**. The list of items visible on each browser's panel can be edited on the **Customize** panel.

***Items that can be cleaned in various browsers and communication programs***

| Browser | Items that can be cleaned |
|---|---|
| **Internet Explorer** | • Temporary Internet Files<br>• Cookies<br>• History<br>• Download History<br>• Typed URLs<br>• Form Data<br>• DOM files<br>• Extensions Statistics<br>• Stored Favorites Order |
| **Microsoft Edge (Windows 10)** | • Cache Files<br>• Browsing Data<br>• Typed URLs<br>• Application Cache<br>• Cached Certificates<br>• DOM Storage<br>• Internal Databases<br>• Stored Website Favicons<br>• Stored Recovery Information<br>• Temporary Files |
| **Microsoft Edge (Google Chrome-based)** | • Cache files<br>• Cookies<br>• Browsing History<br>• Download History<br>• Address Bar History<br>• Stored Text in Forms<br>• Stored Passwords in Forums<br>• Browser Metrics Files |

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| | |
|---|---|
| | • Budget Database<br>• Cached Jump Lists Icons<br>• Cached Script Code<br>• Cached WebAssembly Code<br>• Crash Reports<br>• Data Reduction Statistics<br>• Extension Databases<br>• Extensions State<br>• GPU Cache<br>• Heavy Ad Intervention Statistics<br>• Invalid Certificates<br>• Language Statistics<br>• Media Engagement Statistics<br>• Media Playback History<br>• Microphone Usage Statistics<br>• Most Visited Sites Data<br>• Network Persistence Statistics<br>• Permission Notification History<br>• Prerendering Data<br>• Quota Manager Data<br>• Rollback Journals<br>• Search Engines Data<br>• Search History<br>• Server Worker Cache<br>• Session Databases<br>• Setup Metrics Files<br>• Site Engagement Statistics<br>• Stored Banner Information<br>• Stored Favicons<br>• Stored Help Session Time<br>• Stored Local FS Access Info<br>• Stored Location Permissions<br>• Stored NEL Data<br>• Stored Push Notifications<br>• Stored Services Network Traffic<br>• Stored Session Commands<br>• Stored Tabs Command<br>• Stored Translation Parameters<br>• Stored Website Permissions<br>• Stored Zoom Data<br>• Sync Logs<br>• Tracking Preventions Data |

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| | |
|---|---|
| | • Tracking Relationship Data<br>• Update Files<br>• Update Logs<br>• Web Application Daily Metrics<br>• Web Apps File System's Files<br>• Webcam Usage Statistics<br>• WebRTC Logs<br>• Website Loading Statistics<br>• Browsing Data<br>• Cached Files<br>• Typed URLs<br>• Application Cache<br>• Cashed Certificates<br>• DOM Storage<br>• Internal Databases<br>• Stored Website Favicons<br>• Stored Recovery Information<br>• Temporary Files<br>• Session Event Log<br>• Stored Usage Statistics<br>• Website Redirecting Statistics<br>• Installer Files<br>• Site Characteristics Database<br>• Stored Printing Information<br>• Web Engine Navigation History<br>• Stored Profiles in Forms<br>• Allowed Web Launch Apps Data<br>• Website Databases<br>• Stored Form Filling Metadata<br>• Developer Tools Recent Files<br>• Stored Web App Commands<br>• Stored Client Hints<br>• Manager Diagnostics Log<br>• Stored Assistance Data<br>• LevelDB Databases<br>• Stored PDF View Info<br>• SmartScreen Download Data<br>• SmartScreen URI Data<br>• Stored Bounce Tracking Data<br>• CRX Package Cache<br>• MAM Log<br>• Stored Media Devices Salts |

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| | |
|---|---|
| | • Databases Old Logs<br>• Stored Cookie Controls Metadata<br>• Stored Popups Data<br>• Stored Coupons<br>• HTTP Allowed Sites Info<br>• Form Fields Filling History<br>• 3PCD Heuristics Grants<br>• Web Storage<br>• Hub App Usage Data<br>• 3PCD Support Info<br>• Wallet Log<br>• Shared Dictionary Cache<br>• Shared Storage |
| **Mozilla Firefox**<br>Lunascape<br>Waterfox<br>Basilisk<br>Comodo IceDragon<br>Pale Moon | • Cached Files<br>• Cookies<br>• Browsing History<br>• Download History<br>• Stored Text in Forms<br>• Stored Passwords<br>• Cached Jump Lists Icons<br>• Crash Minidump Files<br>• Crash Reports<br>• DOM Storage<br>• FHR Performance Measures<br>• Indexed Databases<br>• Stored Favicons<br>• Stored HSTS Cookies<br>• Stored Installation Timestamps<br>• Stored Session Information<br>• Stored Timestamps<br>• Stored Webpage Thumbnails<br>• Telemetry Reports<br>• Update Logs<br>• Overridden Certificates<br>• Stored Push Notifications<br>• Mozilla Maintenance Service Logs<br>• Storage Usage Statistics<br>• Enhanced Tracking Protection Statistics<br>• Registered Service Workers<br>• Stored Frecency<br>• Stored Website Permissions<br>• Stored Website Preferences |

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| | |
|---|---|
| | • Sync Event Log<br>• Stored Usage Statistics<br>• Used Devices<br>• WebRenderer Shader Cache<br>• Stored Alternative Services Data<br>• Stored App Handling<br>• Unfinished Downloads<br>• Settings Sync History<br>• Update Trash<br>• Stored Glean Metrics<br>• Top Frecent Websites<br>• Stored Recovery Data<br>• Stored BgTasks HSTS Cookies<br>• Bounce Tracking Protection Data<br>• Rollback Journals |
| **Opera**<br>**Opera GX** | • Cached Files<br>• Cookies<br>• Browsing History<br>• Download History<br>• Stored Text in Forms<br>• Stored Passwords<br>• Cached Jump Lists Icons<br>• Cached Script Code<br>• Extensions Databases<br>• Media Engagement Statistics<br>• Network Persistence Statistics<br>• Prerendering Data<br>• Quota Manager Data<br>• Rollback Journals<br>• Service Worker Cache<br>• Site Engagement Statistics<br>• Stored Favicons<br>• Stored Website Permissions<br>• AutoUpdate Log<br>• Stored Zoom Data<br>• Backup Files<br>• Bookmarks Trash<br>• Cached WebAssembly Code<br>• Debug Logs<br>• GPU Cache<br>• Media Playback History<br>• Microphone Usage Statistics |

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| | |
|---|---|
| | • Permission Notification History<br>• Previous Versions Backup<br>• Sidebar Elements Usage Data<br>• Stored Location Permissions<br>• Stored NEL Data<br>• Stored Push Notifications<br>• Stored Session Commands<br>• Stored Tabs Commands<br>• Stored Usage Statistics<br>• Recent Tabs<br>• Removed Suggestions<br>• Stored Printing Information<br>• Temporary Files<br>• Web cam Usage Statistics<br>• Website Databases<br>• Stored Client Hints<br>• Allowed Web Launch Apps Data<br>• Assistant Statistics<br>• Developer Tools Recent Files<br>• Assistant Logs<br>• Stored Suggestion Data<br>• Search History<br>• Session Event Log<br>• Crash Reports<br>• Stored Banner Information<br>• Browser Metrics Files<br>• Browser Metrics Files (Opera GX)<br>• Web Applications Daily Metrics<br>• Stored Bounce Tracking Data<br>• CRX Package Cache<br>• Stored Media Devices Salts<br>• HTTP Allowed Sites Info<br>• Stored Popups Data<br>• 3PCD Heuristics Grants<br>• Databases Old Logs<br>• Web Storage<br>• Shared Dictionary Cache<br>• Custom Handlers Data |
| **Google Chrome**<br>Google Chrome Beta<br>Brave<br>Comodo Dragon | • Cache Files<br>• Cookies<br>• Browsing History<br>• Download History |

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| | |
|---|---|
| SRWare Iron<br>Vivaldi<br>Opera Neon<br>Torch<br>Slimjet<br>Arc | • Address Bar History<br>• Stored Text in Forms<br>• Stored Passwords in Forms<br>• Cached Jump Lists Icons<br>• DNS Prefetching Data<br>• Extensions Databases<br>• Extensions State<br>• Flash Player Cache<br>• GPU Cache<br>• Media Cache<br>• Media Engagement Statistics<br>• Most Visited Sites Data<br>• Prerendering Data<br>• Quota Manager Data<br>• Rollback Journals<br>• Search Engines Data<br>• Search History<br>• Session Databases<br>• Site Engagement Statistics<br>• Stored Favicons<br>• Sync Data<br>• TLS Certificates<br>• Web Apps File System's Files<br>• Web Databases<br>• Budget Database<br>• Service Worker Cache<br>• Site Characteristics Database<br>• Software Reporter Tool Logs<br>• Network Persistence Statistics<br>• Extensions Cookies<br>• Language Statistics<br>• Setup Metrics Files<br>• Stored Website Permissions<br>• Update Files<br>• Invalid Certificates<br>• Stored Push Notifications<br>• Webcam Usage Statistics<br>• Microphone Usage Statistics<br>• Stored Zoom Data<br>• Browser Metrics Files<br>• Cached Script Code<br>• Stored Banner Information |

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| | |
|---|---|
| | • Cached WebAssembly Code<br>• Data Reduction Statistics<br>• Debug Log<br>• Heavy Ad Intervention Statistics<br>• Media Playback History<br>• Permission Notification History<br>• Stored Local FS Access Info<br>• Stored Location Permissions<br>• Stored NEL Data<br>• Stored Services Network Traffic<br>• Stored Session Commands<br>• Stored Sound Playback Settings<br>• Stored Tabs Commands<br>• Stored Translation Parameters<br>• Temporary Files<br>• Web Applications Daily Metrics<br>• Session Event Log<br>• Stored Usage Statistics<br>• Recent Tabs<br>• Removed Suggestions<br>• Stored Printing Information<br>• Temporary Files<br>• Webcam Usage Statistics<br>• Stored Client Hints<br>• Databases<br>• Allowed Web Launch Apps Data<br>• Stored Form Filling Metadata<br>• Developer Tools Recent Files<br>• Safe Browsing Event Timestamps<br>• Safe Browsing Cookies<br>• Stored Trust Tokens<br>• LevelDB Databases<br>• Update Usage Statistics<br>• Stored Idle Detection Data<br>• Optimization Guide Service Files<br>• Crash Reports<br>• Stored Bounce Tracking Data<br>• Browsing History Journeys Data<br>• Permission Auto-Revocation Data<br>• Backup Files<br>• CRX Package Cache<br>• Stored FedCM IdP Data |

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| | |
|---|---|
| | • Stored Interest Groups Data<br>• Stored Media Devices Salts<br>• Stored Cookie Controls Metadata<br>• Stored Segmentation UKM<br>• HTTP Allowed Sites Info<br>• Stored Topics API Data<br>• Stored Popups Data<br>• Allowed Automatic Downloads<br>• 3PCD Heuristics Grants<br>• Databases Old Logs<br>• Updater Log<br>• Web Storage<br>• 3PCD Support Info<br>• Stored Web App Images<br>• Shared Dictionary Cache<br>• Web App Sync Data<br>• Web App Commands<br>• Shared Storage |
| **Skype** | • Chat History<br>• Call History<br>• Stored Chat Properties<br>• Stored Emoticons Information<br>• Stored File Transfer Information<br>• Stored Media Documents Information<br>• Stored Media Transfer Information<br>• Stored Video Devices Information<br>• Voice Mail Records<br>• Cache Files<br>• Emoticons Cache<br>• Media Transfer Cache<br>• Cookies<br>• Sent SMS messages<br>• Unauthorized Contacts<br>• Auxiliary Traces<br>• Business Intelligence Statistics<br>• Internal Database<br>• Cached Certificates<br>• Rollback Journals<br>• Logs<br>• Databases Old Logs<br>• Crash Reports<br>• Cached AI Models |

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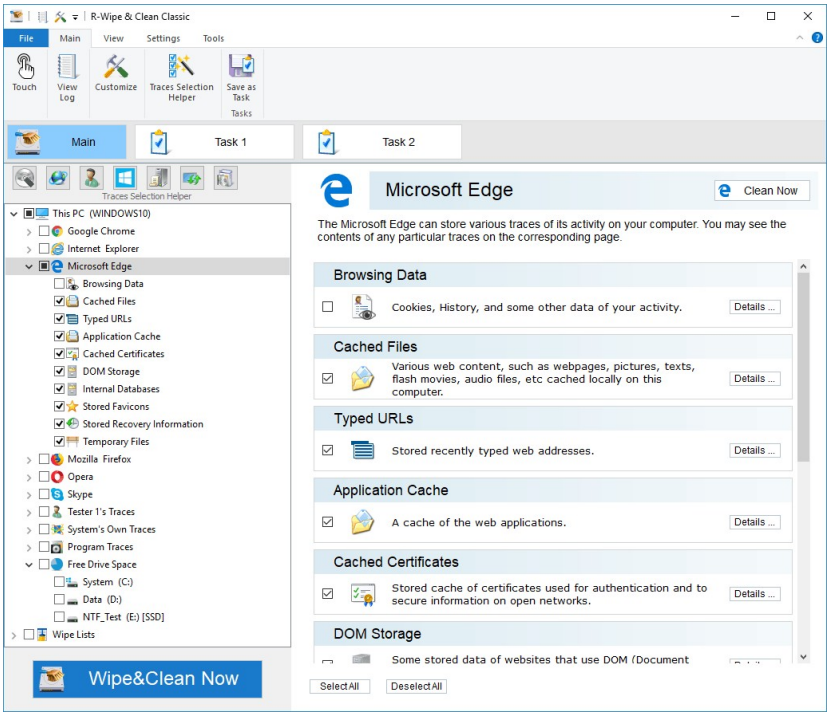
### To clean traces of Internet activity,

- Select the required browser.

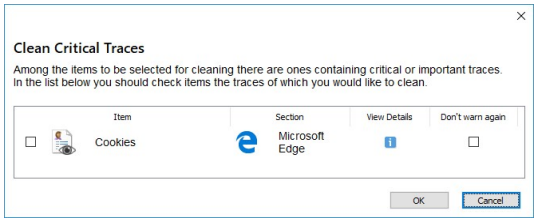
The browser's panel appears in the right pane. Depending on the browser, the content of its panel may vary.

**Microsoft Edge panel**




- Select the required items and click the **Clean Now** button.
  The browser section may contain some critical items that may affect browser performance. **R-Wipe & Clean** will throw a warning about those items if you select the entire browser section.

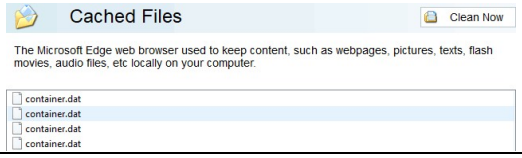
**Critical Item warning**




Select these items only if you completely understand what you are doing.

When **R-Wipe & Clean** finishes cleaning, the **Report** dialog box will appear showing cleaning results.

***More information on the items in Microsoft Edge***

| Depending on your browser, contents may vary. Below are the items for Microsoft Edge | |
|---|---|
| Cache Files |   |

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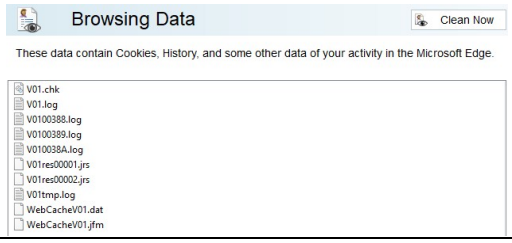
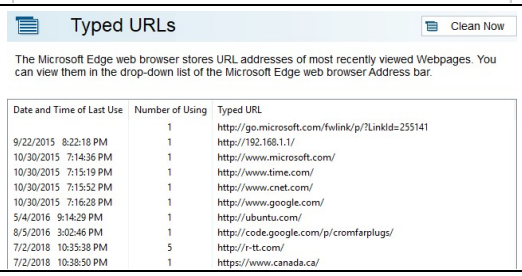
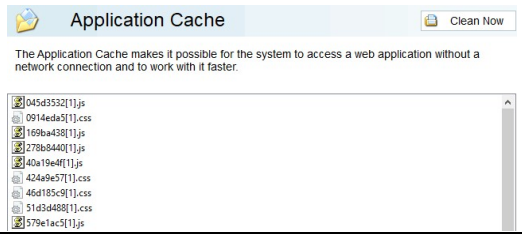
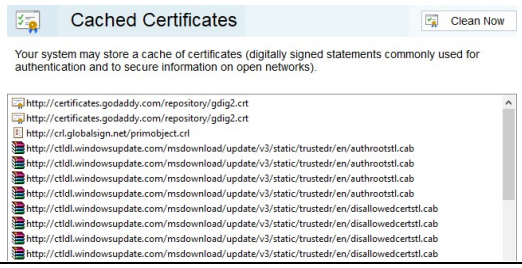
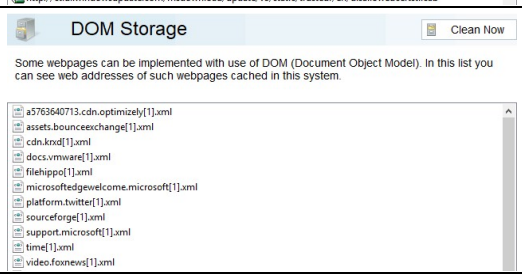
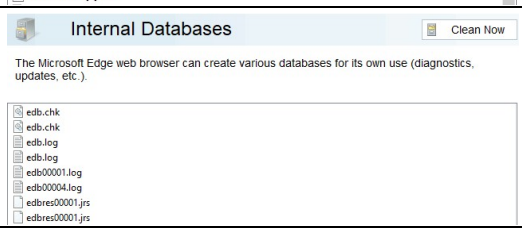
| | |
|---|---|
| Browsing Data |  |
| Typed URLs |  |
| Application Cache |  |
| Cached Certification Files |  |
| Cached DOM Files |  |
| Internal Databases |  |
| Stored Favicons | |

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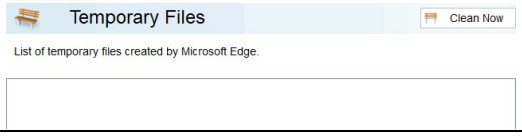
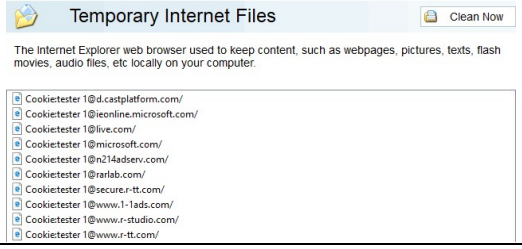
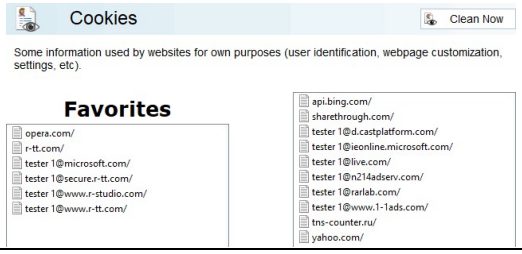
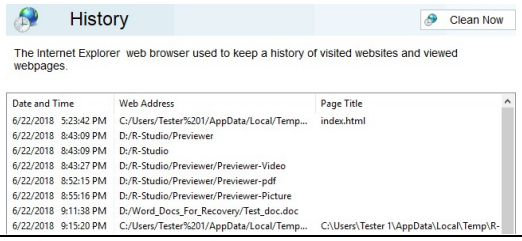
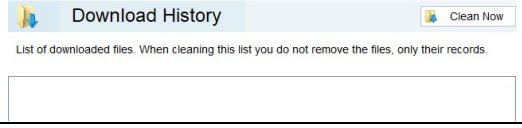
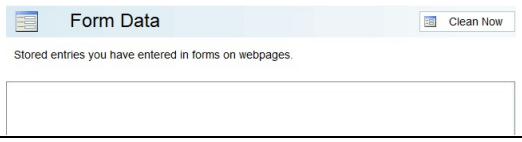
| | |
|---|---|
| Stored Recovery Information | |
| Temporary Files |  |

### ⊞ *More information on the items in Internet Explorer*

| Depending on your browser, contents may vary. Below are the items for Internet Explorer | |
|---|---|
| Temporary Internet Files |  |
| Cookies |  |
| History |  |
| Download History |  |
| Typed URLs | |
| Form Data |  |

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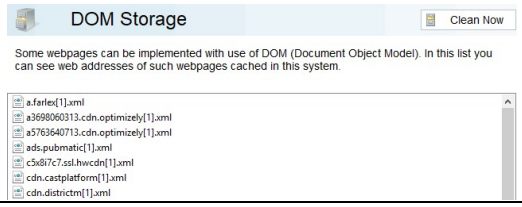
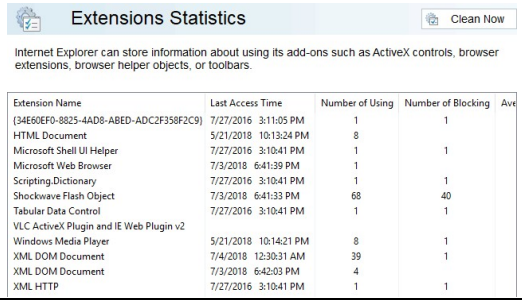
| | |
|---|---|
| DOM Storage |  |
| Extensions Statistics |  |
| Stored Favorites Order | |

### 2.4.2.2 Cleaning Personal Traces

You may clean various logs, caches, temporary files, and very many traces of your activity in the system.

You may include personal traces cleaning into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

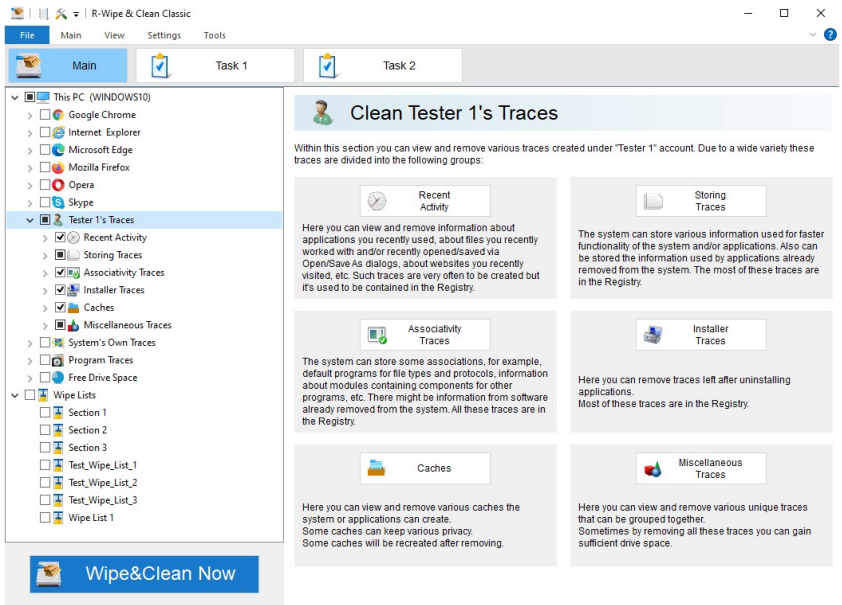
The list of items visible on the **Personal Traces** panel can be edited on the **Customize** panel. These items are user-specific, their contents are individual for each user.

**To clean your personal traces ,**

- Select the tab with your login name.

The **Personal traces** panel appears in the right pane.

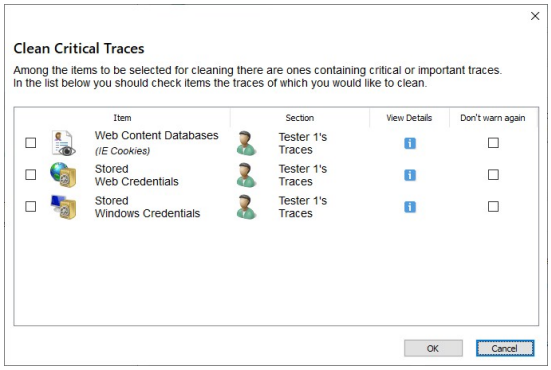
**Personal traces panel**




- Go to the required section(s) and select the required items.

The section may contain some critical items that may affect system performance. **R-Wipe & Clean** will throw a warning about these items if you select the entire section.

**Critical Item warning**



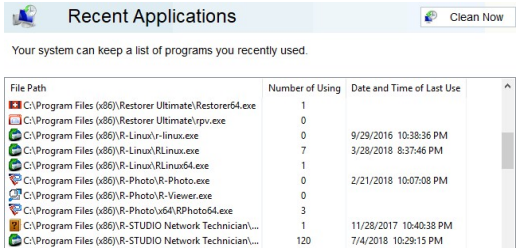
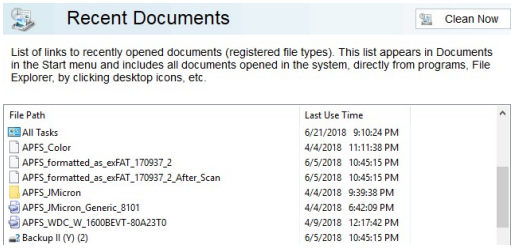
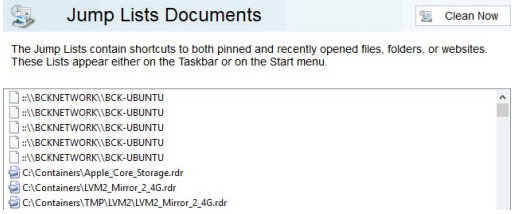

Select these items only if you completely understand what you are doing.

- Click the **Clean Now** button.

**R-Wipe & Clean** will start cleaning the computer, and the **Deleting and wiping** dialog box will appear showing the progress of cleaning.

***Personal traces are divided into six parts:***

***Recent Activity: More Information...***

| | |
|---|---|
| This part allows you to inspect and clean your various recent traces like recently run applications, recent documents, recently visited web sites, etc. Most of these traces are stored in the Registry. | |
| Recent Applications |  <br>**Attention!** When cleaning this list, you **do not remove** the files, only their links. |
| Recent Documents |  <br>**Attention!** When cleaning this list, you **do not remove** the files, only their links. |
| Jump Lists |   |

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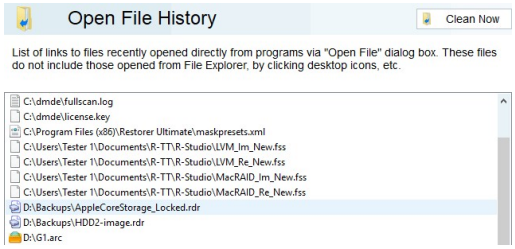
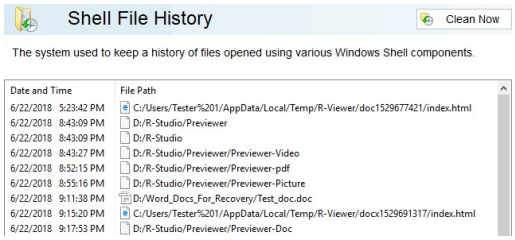
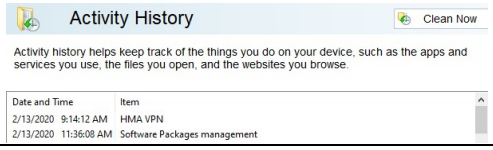
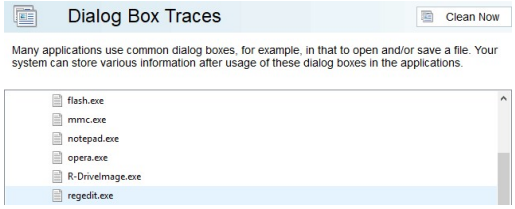
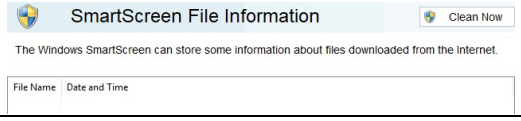
| | |
|---|---|
| | **Attention!** When cleaning this list, you **do not remove** the files, only their links. |
| File Explorer Jump List | <br>**Attention!** When cleaning this list, you **do not remove** the files, only their links. |
| Jump Lists Program History | |
| Open File History |  <br>**Attention!** When cleaning this list, you **do not remove** the files, only their links. |
| Shell File History |  <br>**Attention!** When deleting and wiping the cache, you **do not remove** the extensions, only their cached copies. |
| Activity History (Windows 10+) |  |
| Dialog Box Traces |  |
| SmartScreen File Information |  |

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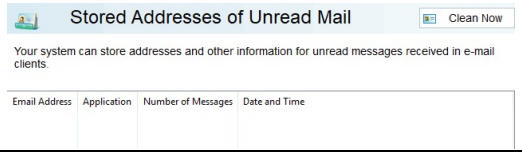
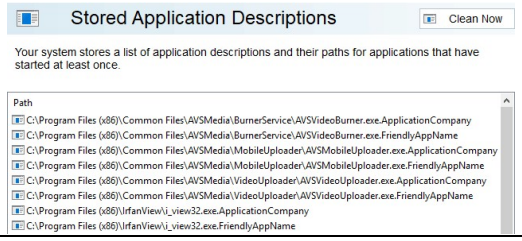
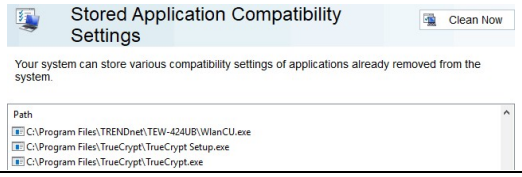
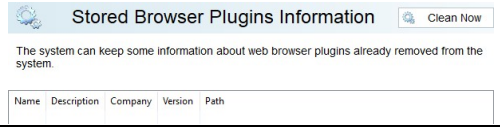
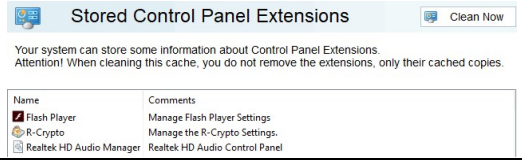
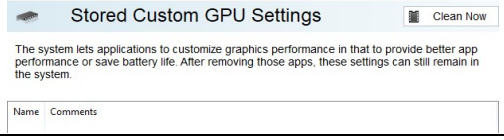
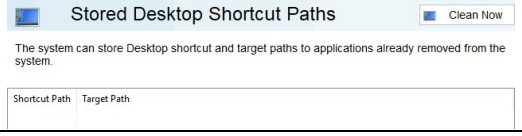
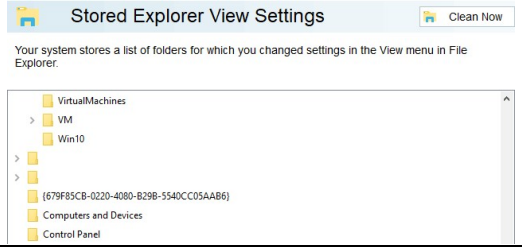
***Storing Traces: More Information...***

| This part allows you to inspect and clean some data (mostly insignificant) of your recent activity. Most of these traces are stored in the Registry. | |
|---|---|
| Recent Network folders | |
| Stored addresses of unread mail |  |
| Stored Application Descriptions |  |
| Stored Applications Compatibility Settings |  |
| Stored Browser Plugins Information |  |
| Stored Control Panel Extensions |  |
| Stored Custom GPU Settings (Windows 10+) |  |
| Stored Desktop Shortcut Paths |  |
| Stored Explorer View Settings |  |

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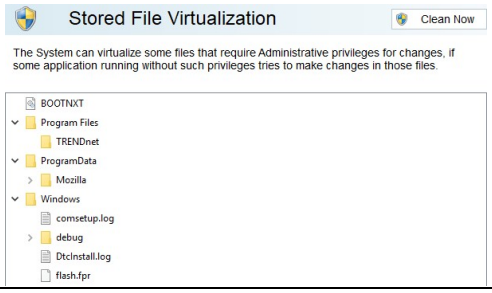
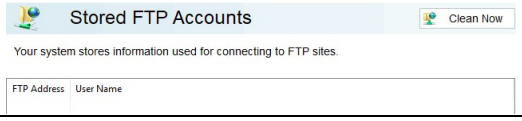
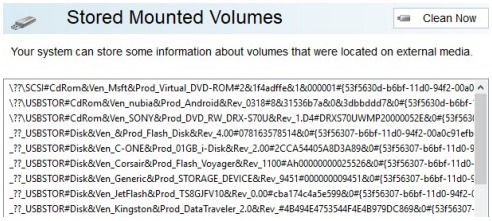
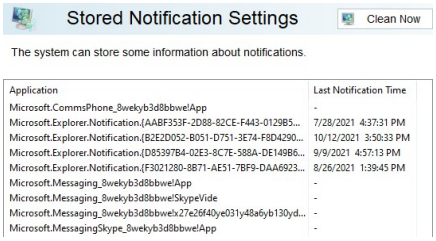
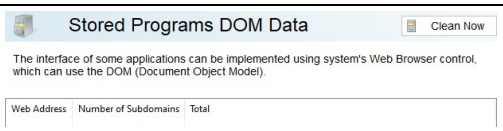
| | |
|---|---|
| Stored File Virtualization |  |
| Stored FTP Accounts |  |
| Stored FTP Folders | |
| Stored Microphone Usage Info (Windows 10+) | |
| Stored Mounted Volumes |  |
| Stored Notification Display Info (Windows 8+) | |
| Stored Notification Settings (Windows 10+) |  |
| Stored Programs DOM Data |  |
| Stored Quick Launch Shortcuts | |

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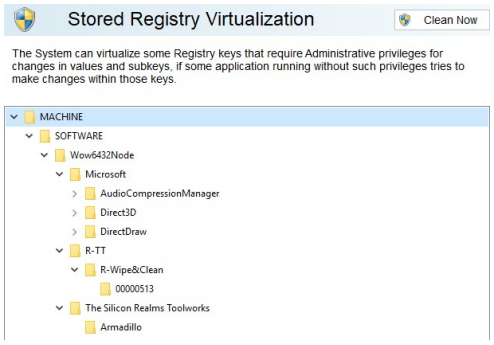
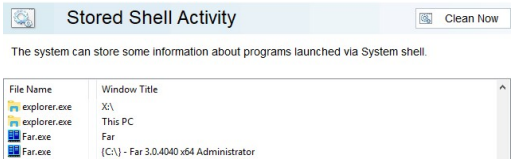
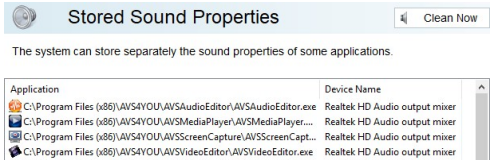
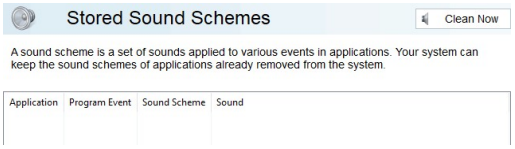
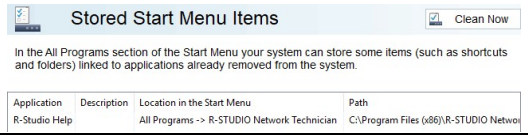
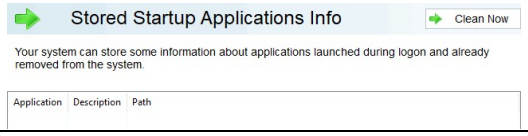
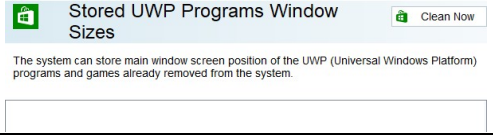
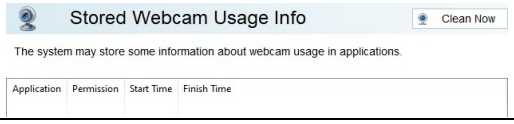
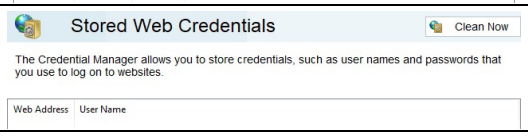
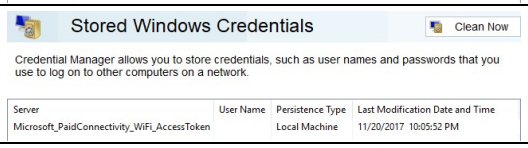
| | |
|---|---|
| Stored Registry Virtualization |  |
| Stored Shell Activity |  |
| Stored Sound Properties |  |
| Stored Sound Schemes |  |
| Stored Start Menu Items |  |
| Stored Startup Applications Info |  |
| Stored UWP Programs Window Sizes |  |
| Stored Webcam Usage Info (Windows 10+) |  |
| Stored Web Credentials |  |
| Stored Windows Credentials |  |

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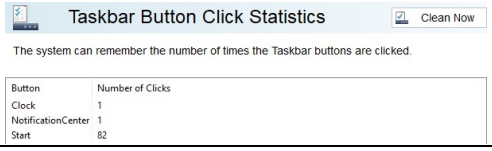
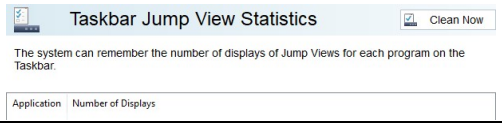
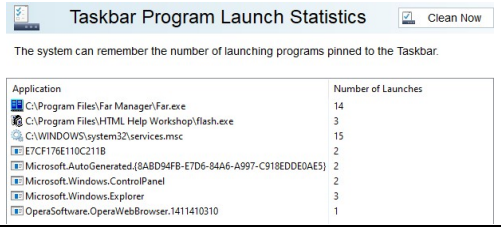
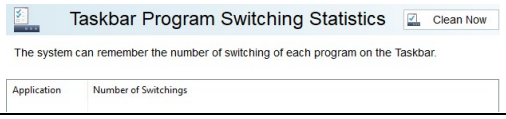
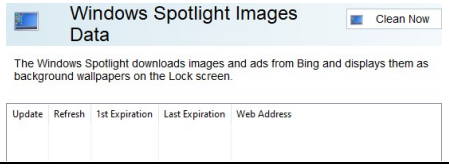
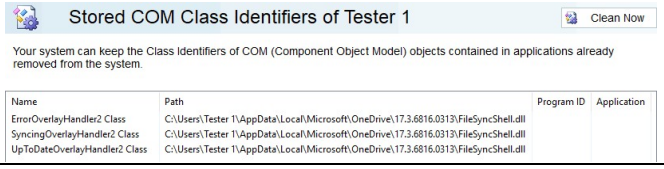
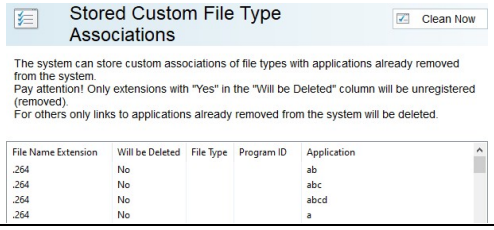
| | |
|---|---|
| Taskbar Badges Update Statistics | |
| Taskbar Button Click Statistics |  |
| Taskbar Favorites Statistics | |
| Taskbar Jump View Statistics |  |
| Taskbar Program Launch Statics |  |
| Taskbar Program Switching Statistics |  |
| Windows Spotlight Images Data (Windows 10+) |  |

***Associativity Traces: More Information...***

| This part allows you to inspect and clean information of file type association (file types, protocols, etc.) for already removed applications. Most of these traces are stored in the Registry. | |
|---|---|
| Stored COM Class Identifiers |  |
| Stored Custom File Type Associations |  |

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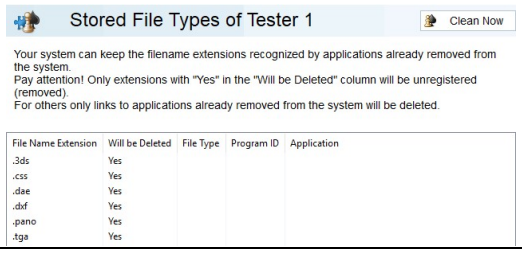
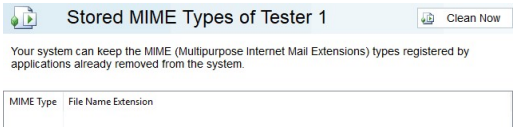
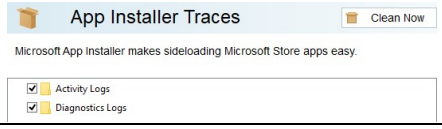
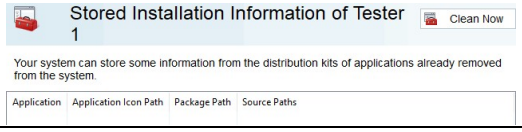
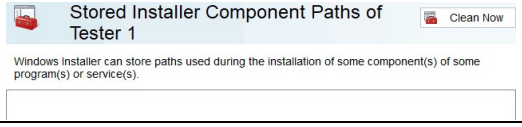
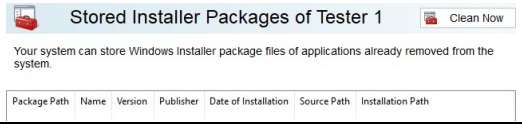
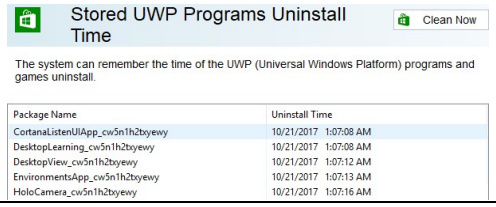
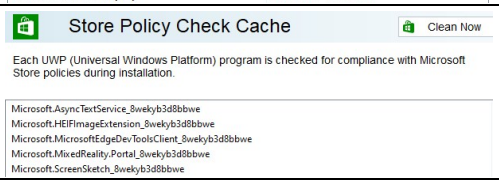
| | |
|---|---|
| Stored File Types |  |
| Stored MIME Types |  |
| Stored Program Identifiers | |

***Installer Traces: More Information…***

| | |
|---|---|
| This part allows you to inspect and clean information from various installers and clean trances left after uninstalling applications. Most of these traces are stored in the Registry. | |
| App Installer Traces |  |
| Stored Installation Information |  |
| Stored Installer Components Paths |  |
| Stored Installer Packages |  |
| Stored Installer Registry Keys | |
| Stored UWP Programs Uninstall Time |  |
| Store Policy Check Cache |  |

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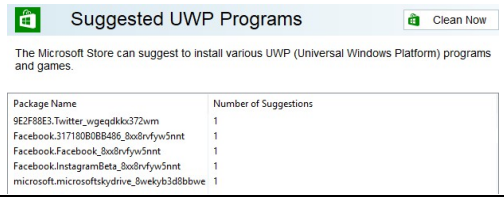
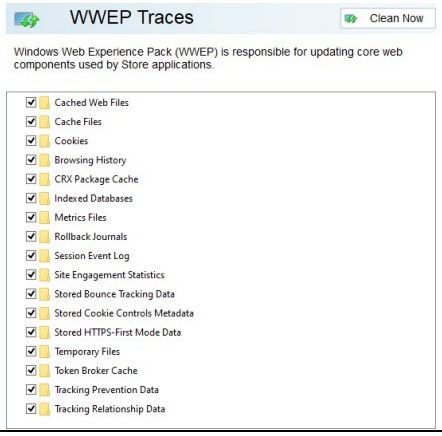
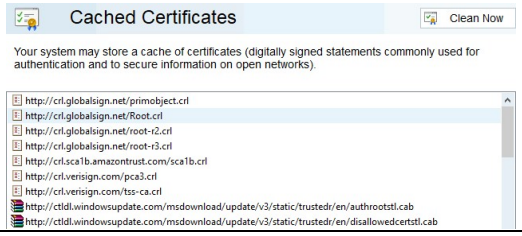
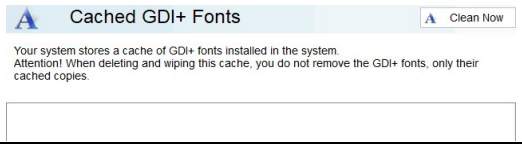
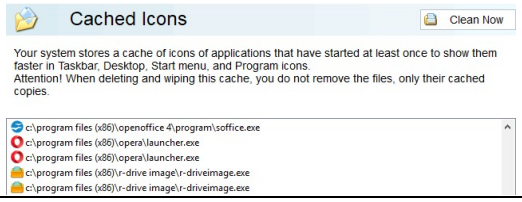
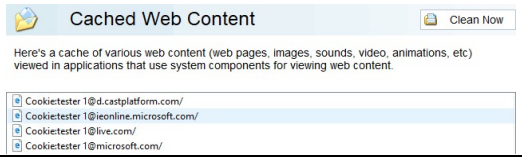
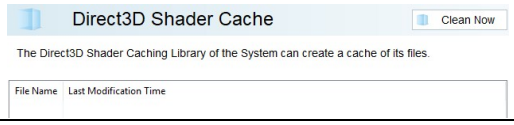
| | |
|---|---|
| Suggested UWP Programs |  |
| WWEP Traces<br>(Windows 10 and higher) |  |

***Caches: More Information…***

| This part allows you to inspect and clean some data caches. Some caches will be created again. | |
|---|---|
| Cached Certificates |  |
| Cached GDI+ Fonts |  |
| Cached Icons |  |
| Cached Shell Extensions | |
| Cached Web Content |  |
| Direct3D Shader Cache |  |

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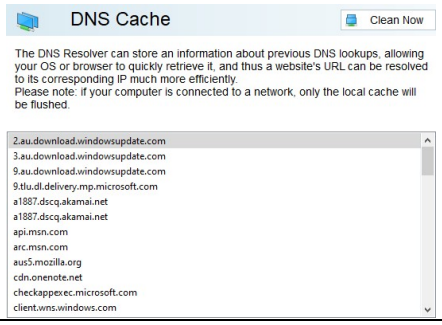
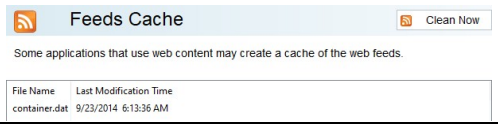
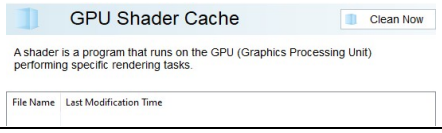
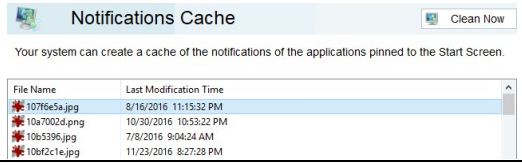
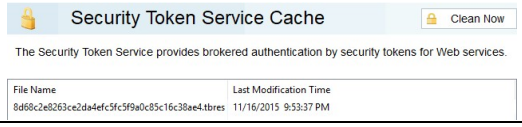
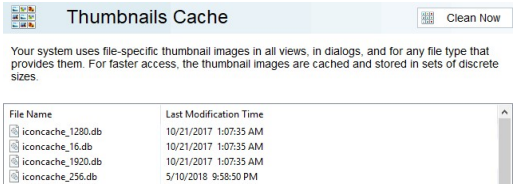
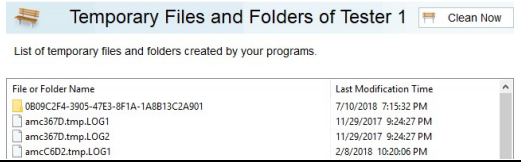
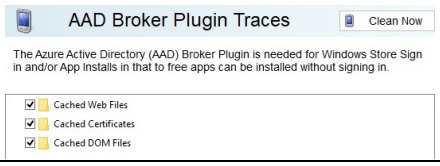
| | |
|---|---|
| DNS Cache |  |
| Feeds Cache |  |
| GPU Shader Cache |  |
| Notification Cache |  |
| Security Token Service Cache |  |
| Thumbnail Caches |  |
| Windows Search Databases | |

***Miscellaneous Traces: More Information…***

| This part allows you to inspect and clean some miscellaneous traces from various sources. Cleaning these traces may give you some sufficient drive space. | |
|---|---|
| Temporary Files and Folders |  |
| AAD Broker Plugin Traces (Windows 10+) |  |

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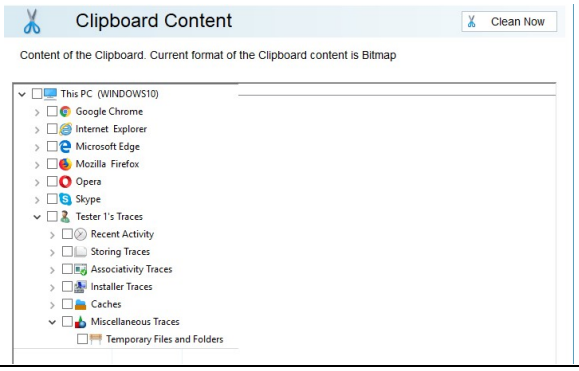
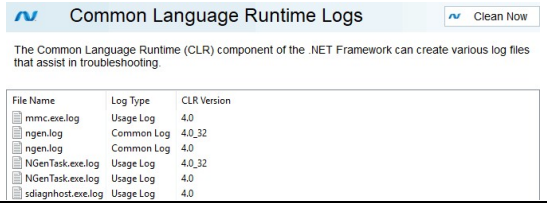
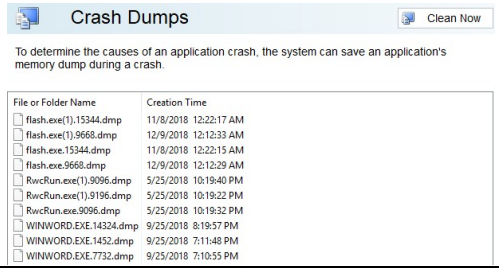
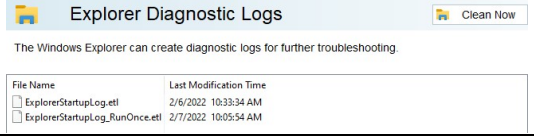
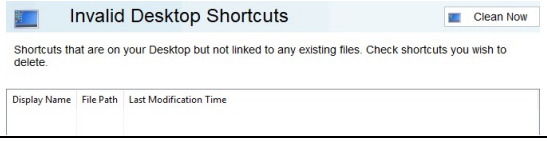
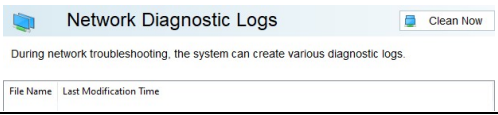
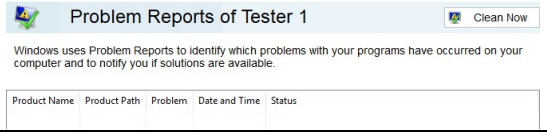
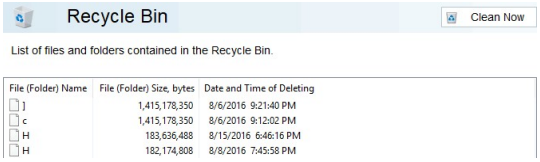
| | |
|---|---|
| Clipboard content |  |
| Common Language Runtime Logs |  |
| Crash Dumps |  |
| Explorer Diagnostics Logs |  |
| HAM Commit History (Windows 10+) | |
| Invalid Desktop shortcuts |  |
| Network Diagnostic Logs |  |
| Problem Reports |  |
| Recycle Bin |  |

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| | |
|---|---|
| System Registry Traces | Registry Traces of Tester 1 Clean Now<br>Registry records of items used by system (mapped network drives, attached devices, etc).<br>Attached Printers List<br>File Explorer's Typed Paths<br>Last Opened Registry Key<br>Computer\HKEY_CURRENT_USER\Software\R-TT\R-Wipe&Clean<br>Mapped Network Drives List<br>\\BCK-UBUNTU\Public<br>\\Windows10\e<br>ba |
| SSO Authentication Traces | SSO Authentication Traces Clean Now<br>The Single Sign-On (SSO) web service allows to use single authentication to gain access to any of Windows devices and Microsoft services.<br>Cached Web Files<br>Cached Certificates<br>Cached DOM Files |
| Startup Menu Experience Host Traces | Start Menu Experience Host Traces Clean Now<br>The Start Menu Experience Host helps the Start menu in Windows computers to run smoothly and independently, thus removing any chances of errors or crashes associated with the Start menu.<br>Cache Files<br>StartUnifiedTileModelCache.dat<br>Cached Certificates<br>Token Broker Cache |
| Stored Environment Variables | Stored Environment Variables of Tester 1 Clean Now<br>Your system can keep the Environment Variables created by applications already removed from the system.<br>Name Path |
| Store Locations of Type Libraries | Stored Locations of Type Libraries of Tester 1 Clean Now<br>Type Libraries contain an information about COM (Component Object Model) objects and are used by various applications for retrieval of this information. Your system can keep locations of the Type Libraries contained in applications already removed from the system.<br>Name Path |
| Sync Traces | Sync Traces Clean Now<br>Many applications and services rely on a Microsoft account to sync content and settings across devices. Your system can store some traces of this sync.<br>Store Local Logs<br>Store Remote Logs |
| Visual Studio App Center Log | Visual Studio App Center Log Clean Now<br>The Visual Studio App Center provides integrated developer services for building, testing, releasing, and monitoring mobile and desktop apps.<br>Date and Time Component Action |
| Web Content Databases | Web Content Databases Clean Now<br>The system components for viewing web content can create the databases of such content. ATTENTION: It's recommended to remove these databases together with Temporary Internet Files, Cookies, and Histoty of Internet Explorer!<br>V01.chk<br>V01.log<br>V010034B.log<br>V010034C.log<br>V010034D.log<br>V01res00001.jrs |
| WebView Traces | WebView Traces Clean Now<br>The Microsoft Edge-based WebView control can be used in modern Windows applications to display web content instead of the old IE-based control.<br>Cached Web Files<br>Cached Certificates<br>Cached DOM Files |
| Windows Update Log | Windows Update Log of Tester 1 Clean Now<br>Log file of updates the system has downloaded and installed (automatically).<br>Date and Time PID TID Component Text |

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### 2.4.2.3 Cleaning System's Own Traces

Your may clear system traces such as registry traces, temp files, system history, caches, and various log files. You may see the contents of any particular item on its respective panel.

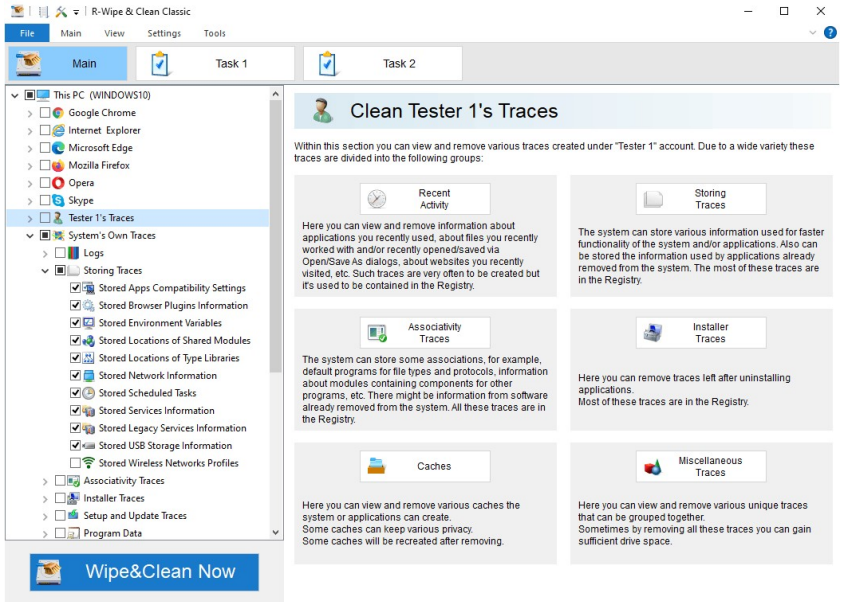
You may also include system's own traces cleaning into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

The list of items visible on the **System** panel can be edited on the **Customize** panel.

**To clean traces of system activity,**

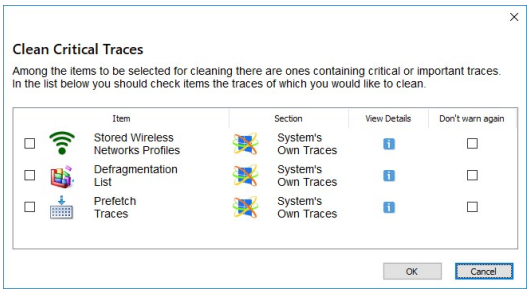
- Select the **System's Own Traces** tab.
  The **System** panel will appear in the right pane.

**System's Own Traces panel**




- Go to the required section(s) and select the required items.
  The section may contain some critical items that may affect system performance. **R-Wipe & Clean** will throw a warning about these items if you select the entire section.

**Critical Item warning**




  Select these items only if you completely understand what you are doing.

- Click the **Clean Now** button.

**R-Wipe & Clean** will start cleaning the computer, and the **Deleting and wiping** dialog box will appear showing the cleaning progress.

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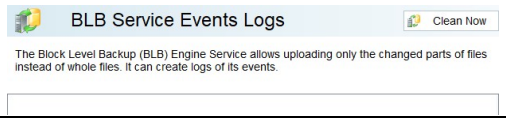
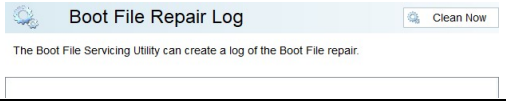
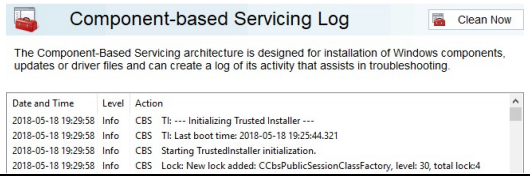
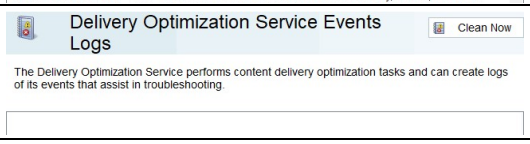
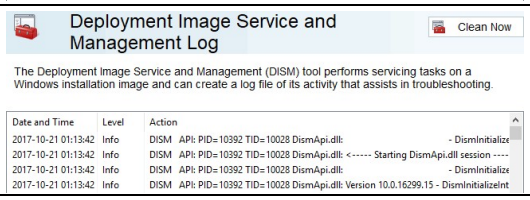
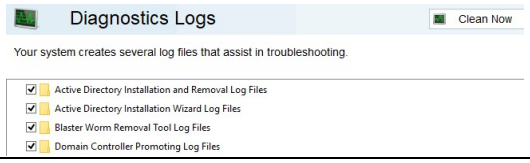
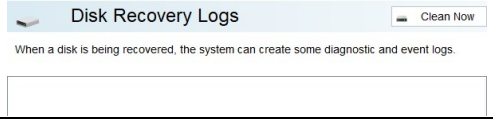
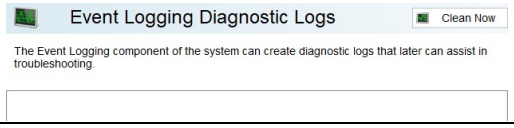
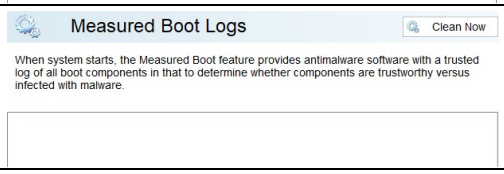
***System traces are divided into nine parts:***

***Logs: More Information...***

| This part allows you to inspect and clean various logs created by various system components. Quite often you may gain some free drive space upon removing these logs. | |
|---|---|
| BLB Service Events Log |  |
| Boot File Repair Log |  |
| Component-Based Servicing Log |  |
| Delivery Optimization Service Events Logs |  |
| Deployment Image Service and Management Log |  |
| Diagnostics Logs |  |
| Disk Recovery Logs |  |
| Event Logging Diagnostic Logs |  |
| LSA Events Logs | |
| Measured Boot Logs |  |

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| | |
|---|---|
| MS DTC Service Trace Logs | MS DTC Service Trace Logs<br>Clean Now<br>The Microsoft Distributed Transaction Coordinator (DTC) service coordinates transactions between databases, message queues, file systems, and other resources and can create trace logs for diagnostic purposes.<br>dtctrace.log.2015-08-20-23-43-21-0262-00<br>dtctrace.log.2015-11-16-22-20-04-0341-00<br>dtctrace.log.2015-11-16-23-03-14-0485-00<br>dtctrace.log.2016-09-09-15-26-58-0839-00 |
| NDF Logs | NDF Logs<br>Clean Now<br>The Network Diagnostics Framework (NDF) provides a way for users to diagnose and repair a network problem using a single troubleshooting tool.<br>eventlog.etl |
| .NET Framework Logs | .NET Framework Logs<br>Clean Now<br>Some tools and services of the .NET Framework can create log files that assist in troubleshooting.<br>File Name / Platform / Version<br>ngen.log Framework64 v4.0.30319<br>ngen.log Framework64 v2.0.50727<br>ngen.log Framework v4.0.30319<br>ngen.log Framework v2.0.50727<br>ngen.old.log Framework64 v4.0.30319<br>ngen.old.log Framework v4.0.30319 |
| Network Setup Service Events Logs | Network Setup Service Events Logs<br>Clean Now<br>The Network Setup Service manages the installation of network drivers and can create logs of its events that assist in troubleshooting.<br>File Name / Last Modification Time |
| Program Install Logs | Program Install Logs<br>Clean Now<br>For compatibility checking, the System can create logs of the programs installation.<br>Program Name / Installer Path / Start Time / Finish Time<br>AVS Update Manager C:\Program Files (x8... 10/30/2018 18:38:03 10/30/2018 19:11:16<br>AVS Update Manager C:\Program Files (x8... 02/20/2019 11:48:27 02/20/2019 12:00:04<br>AVS Update Manager C:\Program Files (x8... 02/20/2019 11:48:27 02/20/2019 11:59:18<br>AVS Update Manager C:\Program Files (x8... 10/30/2018 18:38:03 10/30/2018 19:10:32<br>AVS Update Manager C:\Program Files (x8... 02/20/2019 11:48:27 02/20/2019 11:58:14<br>AVS Update Manager C:\Program Files (x8... 10/30/2018 18:38:03 10/30/2018 19:08:18<br>AVS Update Manager C:\Program Files (x8... 02/20/2019 11:48:27 02/20/2019 11:57:10<br>AVS Update Manager C:\Program Files (x8... 10/30/2018 18:38:03 10/30/2018 19:05:48<br>AVS Update Manager C:\Program Files (x8... 02/20/2019 11:48:27 02/20/2019 11:55:50<br>AVS Update Manager C:\Program Files (x8... 10/30/2018 18:38:03 10/30/2018 19:01:53<br>AVS Update Manager C:\Program Files (x8... 10/30/2018 18:38:03 10/30/2018 19:01:53 |
| SAM Events Logs | SAM Events Logs<br>Clean Now<br>The Security Account Manager (SAM) is used to authenticate local and remote users in that to prevent unauthenticated users accessing the system. It can create logs of its events that assist in troubleshooting |
| Server-initiated Healing Events Logs | Server-initiated Healing Events Logs<br>Clean Now<br>The Server-initiated Healing is used by Windows Update and can create logs of its events that assist in troubleshooting.<br>SIH.20180704.220411.212.1.etl<br>SIH.20180705.203844.167.1.etl<br>SIH.20180707.185329.394.1.etl<br>SIH.20180708.213903.515.1.etl<br>SIH.20180710.185709.118.1.etl<br>SIH.20180710.200825.708.1.etl<br>SIH.20180711.182752.722.1.etl |
| Services Logs | Services Logs<br>Clean Now<br>Services may create log files that assist in troubleshooting.<br>COM+ Services Log Files<br>Internet Information Services Log Files<br>Task Scheduler (Scheduled Tasks) Service Log Files<br>Windows Image Acquisition (WIA) Service Log Files |
| Sleep Study Events Log | Sleep Study Events Logs<br>Clean Now<br>The Sleep Study tool can help you identify sources of battery drain that occurred while the PC was in sleep mode and can create logs of its events that assist in troubleshooting.<br>abnormal-shutdown-user-not-present-trace-2018-12-04-19-59-41.etl<br>ScreenOnPowerStudyTraceSession-2017-10-21-00-42-41.etl<br>ScreenOnPowerStudyTraceSession-2017-10-21-00-57-42.etl<br>ScreenOnPowerStudyTraceSession-2017-10-21-01-15-40.etl<br>ScreenOnPowerStudyTraceSession-2017-10-23-18-43-43.etl<br>ScreenOnPowerStudyTraceSession-2017-10-25-23-44-10.etl |

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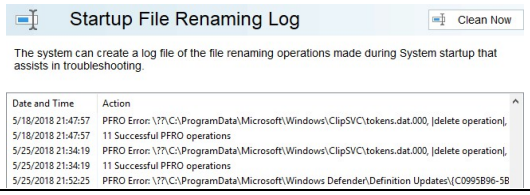
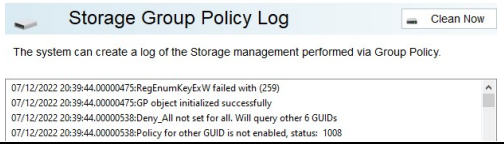
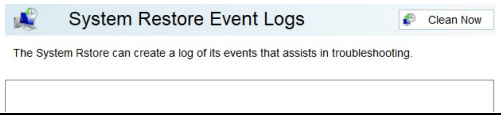
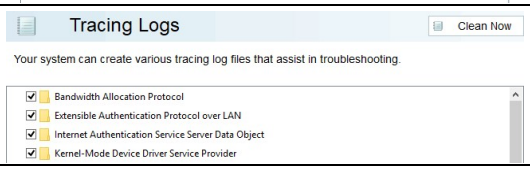
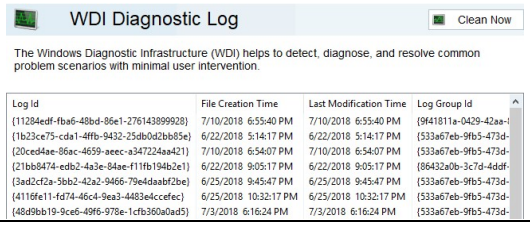
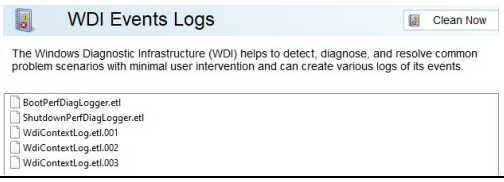
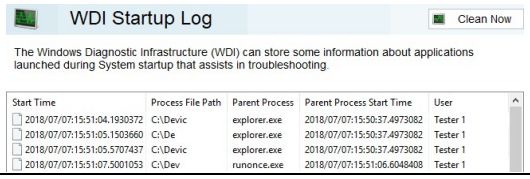
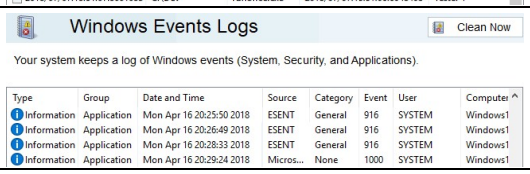
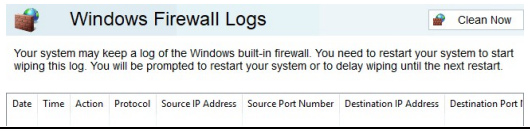
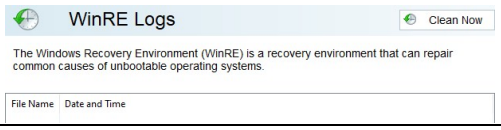
| | |
|---|---|
| Startup File Renaming Log |  |
| Storage Group Policy Log |  |
| System Restore Event Log |  |
| Tracing Logs |  |
| WDI Diagnostic Log |  |
| WDI Events Log |  |
| WDI Startup Logs |  |
| Windows Events Log |  |
| Windows Firewall Log |  |
| WinRE Logs |  |

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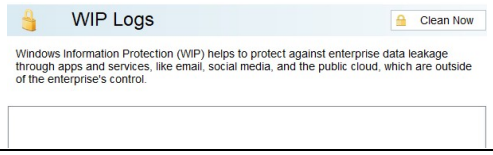
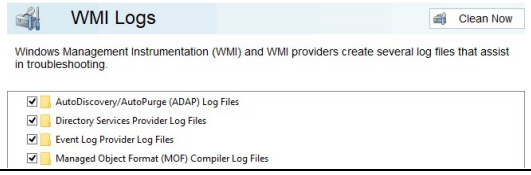
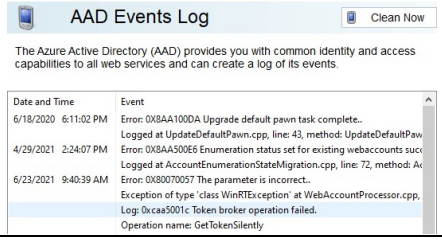
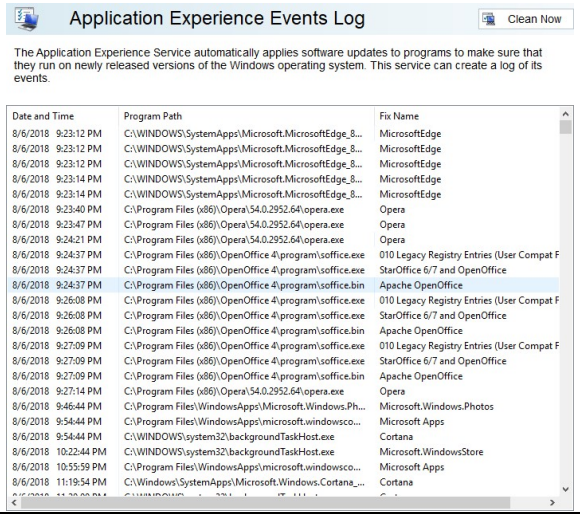
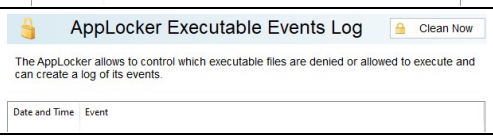
| | |
|---|---|
| WIP Logs (Windows 10+) |  |
| WMI Events Log |  |
| AAD Events Log (Windows 10+) |  |
| AAD User Device Registration Log (Windows 10+) | |
| AppID Events Log | |
| Application Experience Events Log |  |
| Application Server Events Log | |
| AppLocker Executable Events Log |  |

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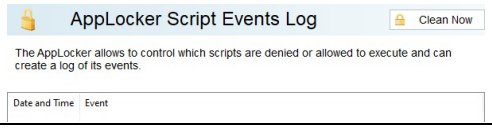
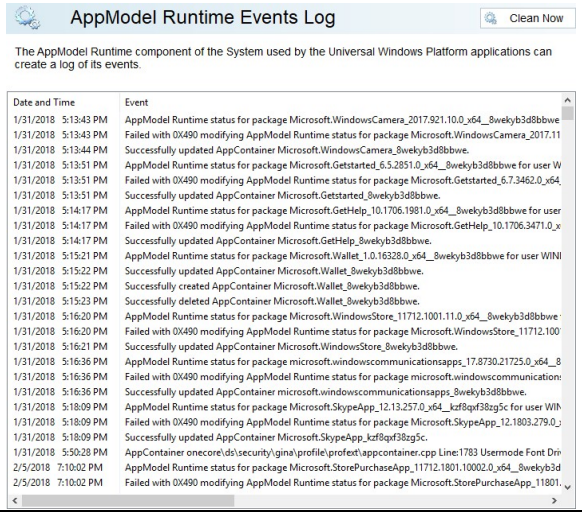
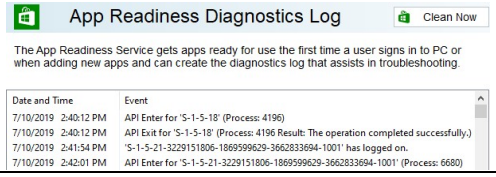
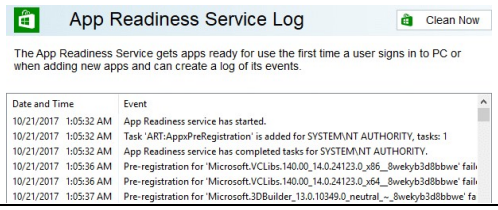
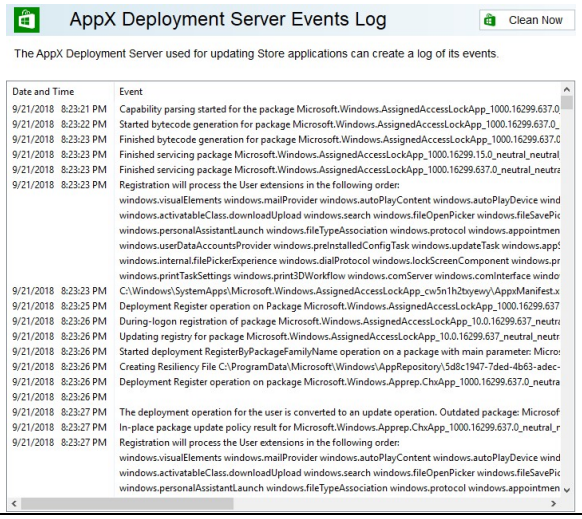
| | |
|---|---|
| AppLocker Script Events Log |  |
| AppModel Runtime Events Log |  |
| App Readiness Diagnostics Log |  |
| App Readiness Service Log |  |
| AppX Deployment Server Events Log |  |

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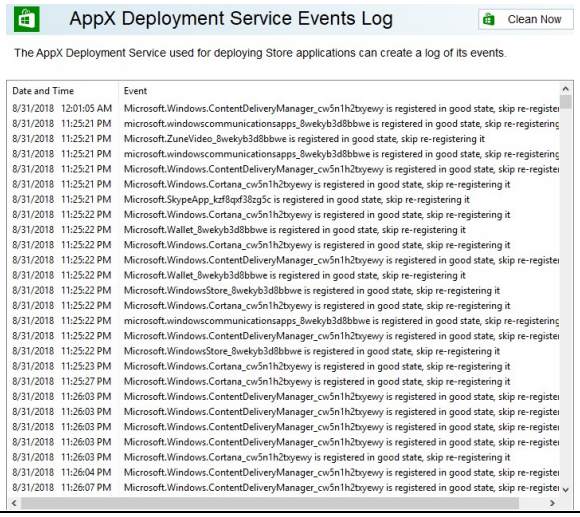
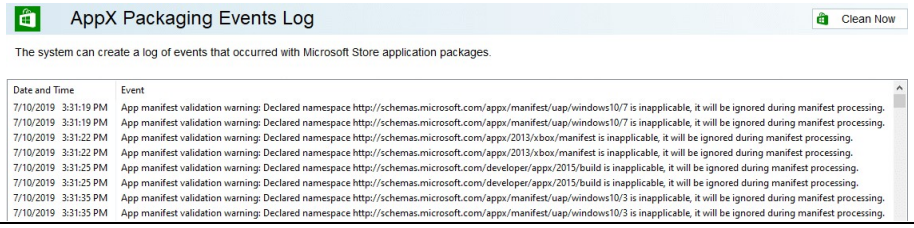
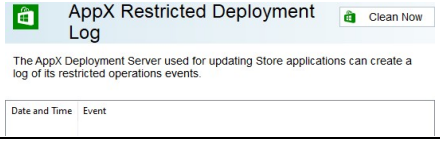
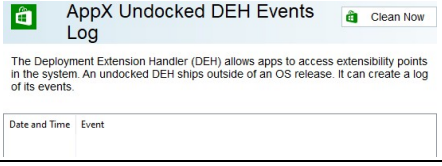
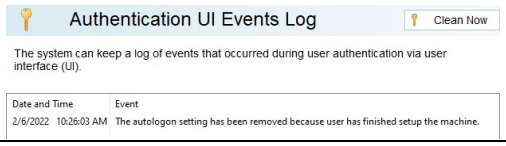
| AppX Deployment Service Events Log |  |
| AppX Packaging Events Log |  |
| AppX Restricted Deployment Log |  |
| AppX Undocked DEH Events Log (Windows 10+) |  |
| Audio Devices Events Log | |
| Authentication UI Events Log |  |
| Audio Glitch Detection Log | |

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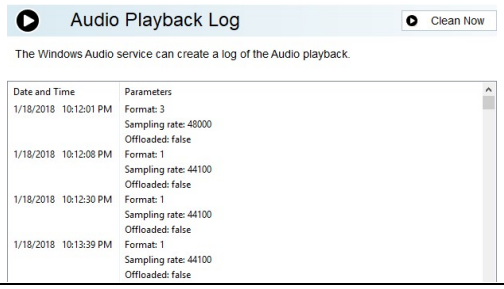
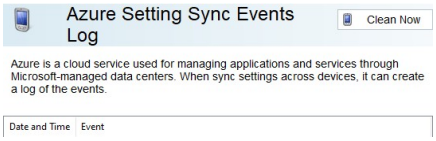
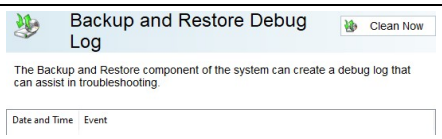
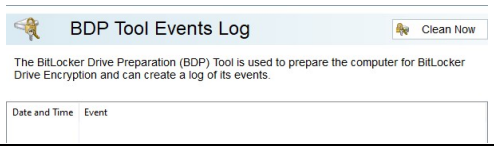
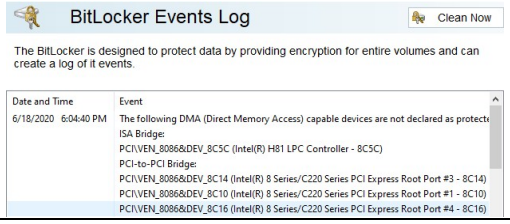
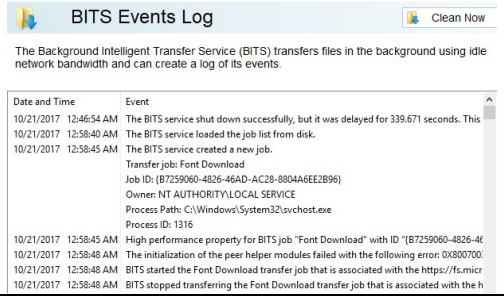
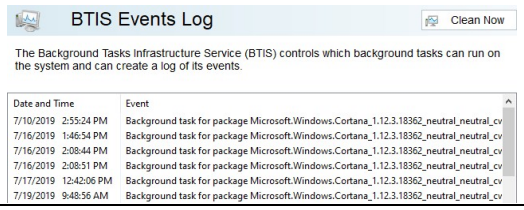
| Audio Playback Log |  |
| Azure Setting Sync Events Log (Windows 10+) |  |
| Backup and Restore Debug Log (Windows 10+) |  |
| BDP Tool Events Log |  |
| BitLocker Events Log |  |
| BITS Events Log |  |
| BranchCache Service Events Log | |
| BTIS Events Log |  |

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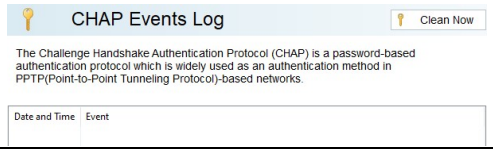
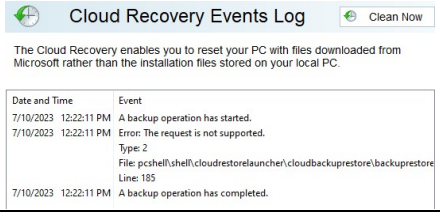
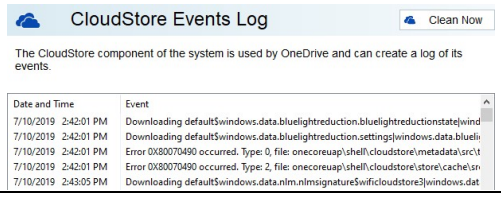
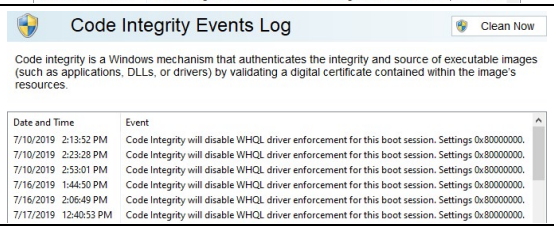
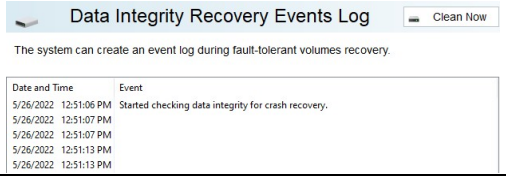
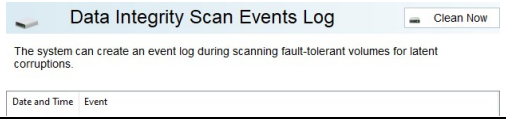
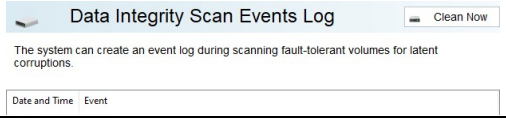
| CHAP Events Log |  |
| Client License Service Events Log | |
| Cloud Recovery Events Log (Windows 10+) |  |
| CloudStore Events Log (Windows 10+) |  |
| Code Integrity Events Log |  |
| Core Application Events Log | |
| Data Integrity Recovery Events Log |  |
| Data Integrity Scan Events Log |  |
| Date and Time Control Panel Events Log |  |

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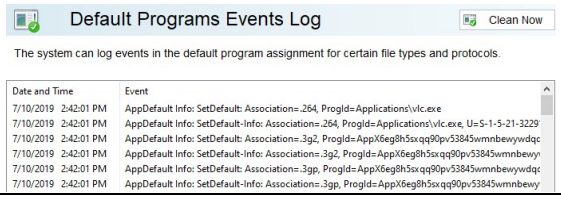
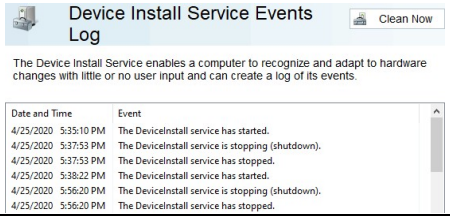
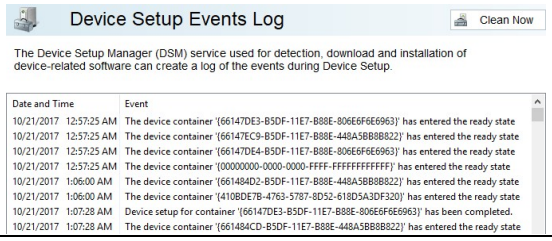
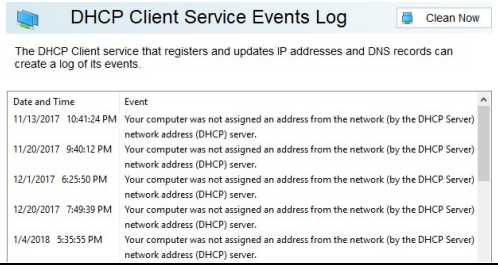
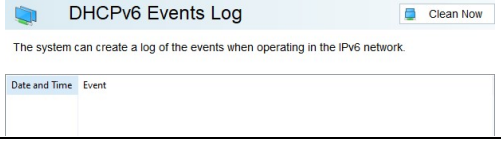
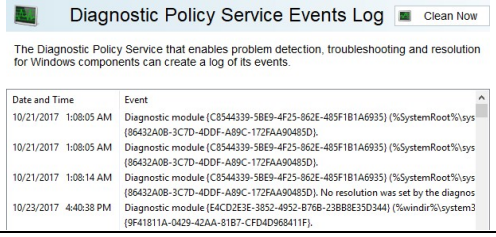
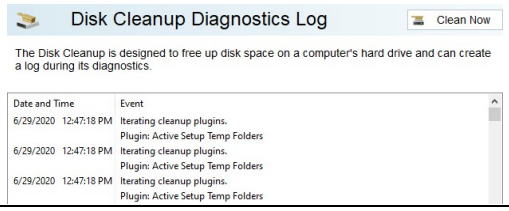
| Default Programs Events Log (Windows 10+) |  |
| Device Install Service Events Log |  |
| Device Setup Events Log |  |
| Device Watchdog Events Log (Windows 10+) | |
| DHCP Client Service Events Log |  |
| DHCPv6 Events Log |  |
| Diagnostic Policy Service Events Log |  |
| Disk Cleanup Diagnostic Log (Windows 10+) |  |

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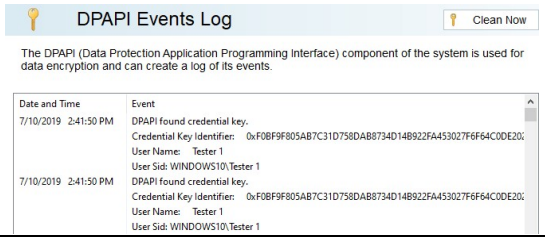
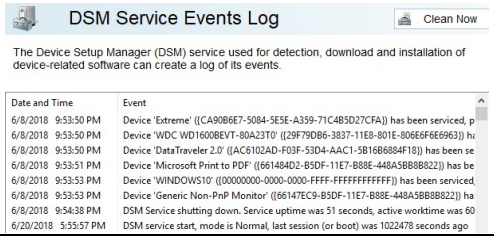
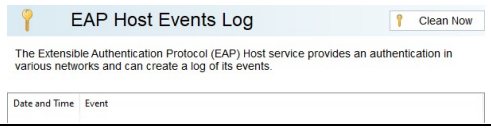
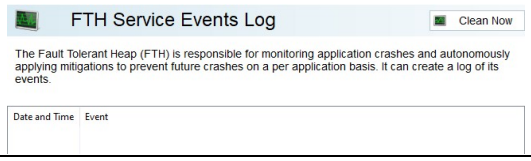
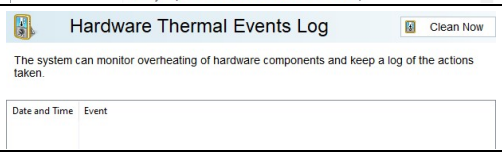
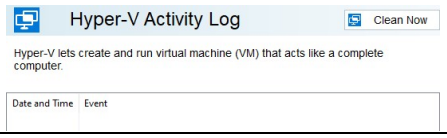
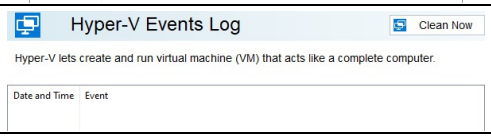
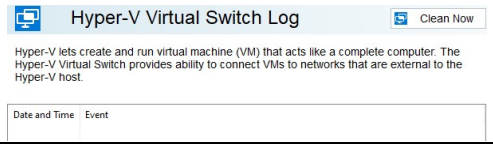
| DPAPI Events Log |  |
| DSM Service Events Log |  |
| EAP Host Events Log |  |
| FTH Service Events Log |  |
| Group Policy Events Log | |
| Hardware Thermal Events Log |  |
| Hyper-V Activity Log |  |
| Hyper-V Events Log |  |
| Hyper-V Virtual Switch Log |  |

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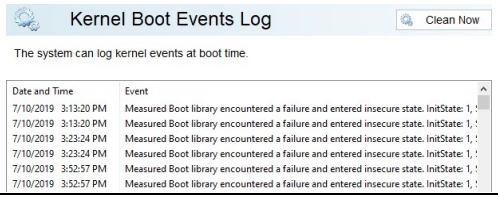
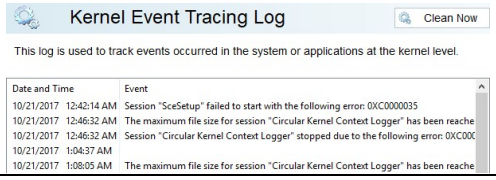
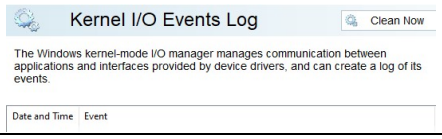
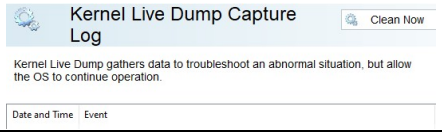
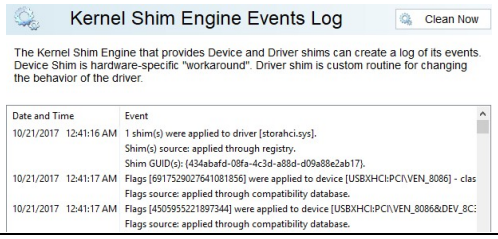
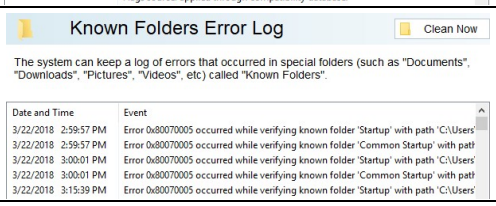
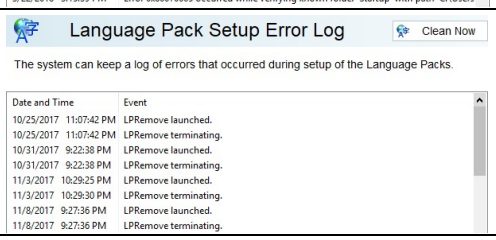
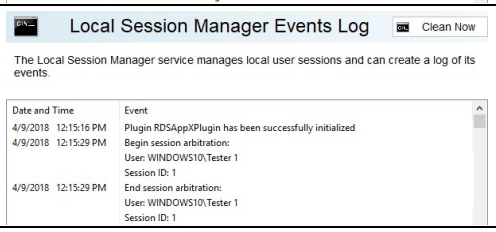
| Kernel Boot Events Log |  |
| Kernel Event Tracing Log |  |
| Kernel I/O Events Log (Windows 10+) |  |
| Kernel Live Dump Capture Log |  |
| Kernel Shim Engine Events Log |  |
| Known Folders Error Log |  |
| Language Pack Setup Error Log |  |
| Local Session Manager Events Log |  |
| LPAC Security Events Log (Windows 10+) | |

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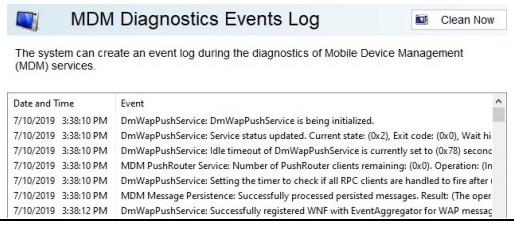
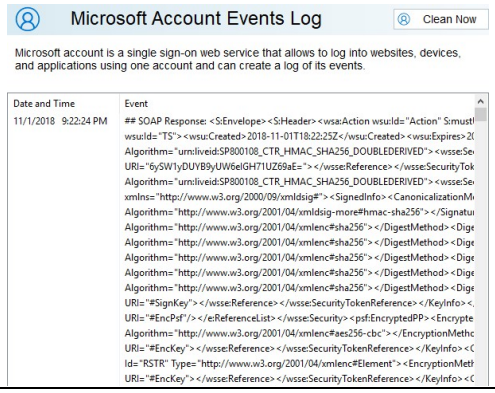
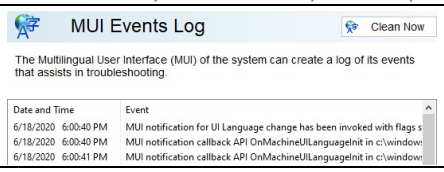
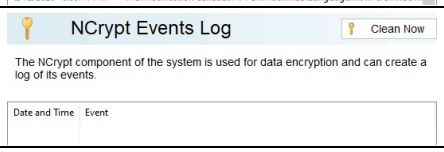
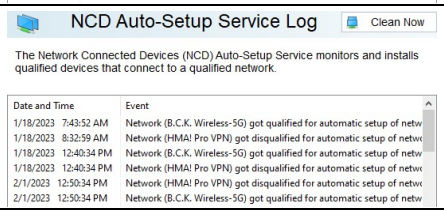
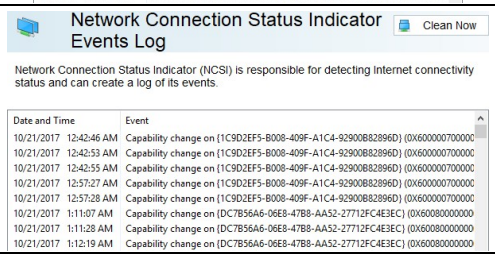
| MDM Diagnostics Events Log |  |
| MDM Security Events Log (Windows 10+) | |
| Microsoft Account Events Log |  |
| MUI Events Log |  |
| NCrypt Events Log |  |
| NCD Auto-Setup Service Log |  |
| NCSI Events Log |  |

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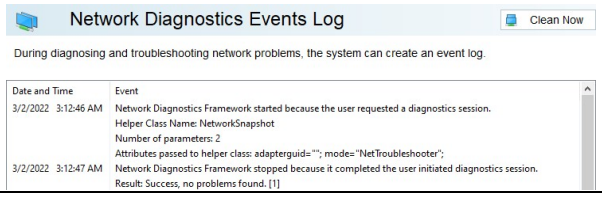
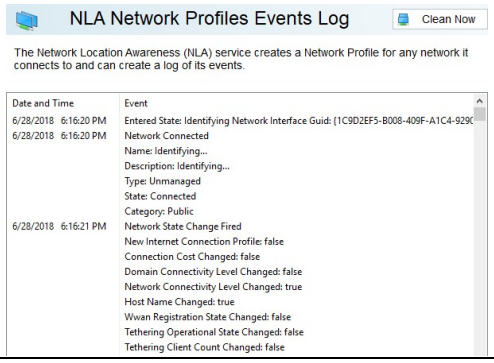
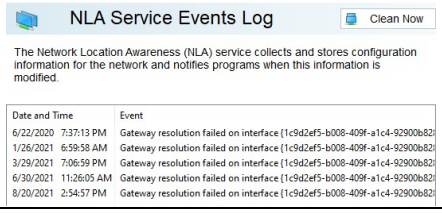
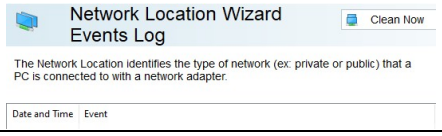
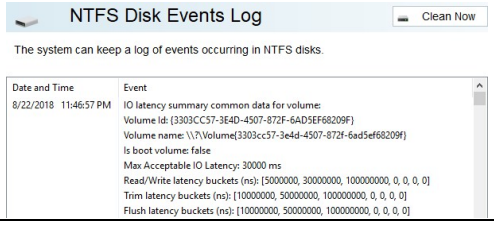
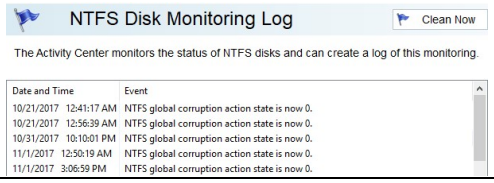
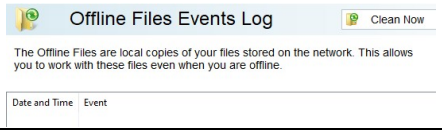
| Network Diagnostics Events Log |  |
| NLA Network Profiles Events Log |  |
| NLA Service Events Log |  |
| Network Location Wizard Events Log |  |
| NTFS Disk Events Log |  |
| NTFS Disk Monitoring Log |  |
| Offline Files Events Log |  |

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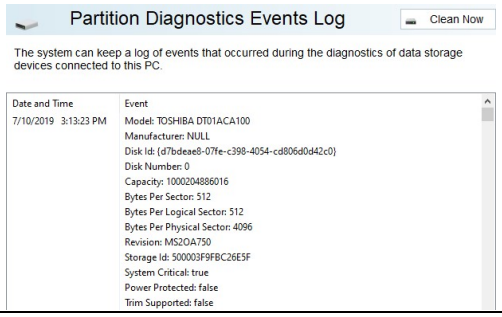
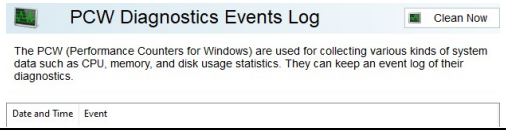
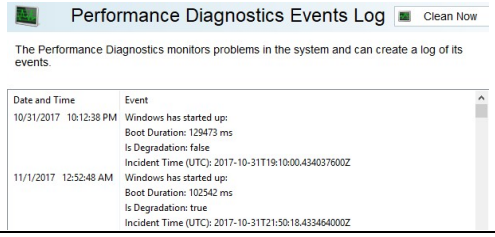
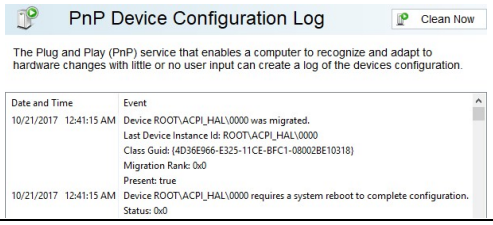
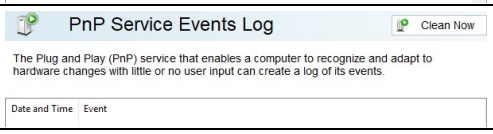
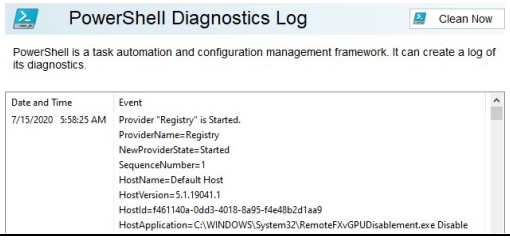
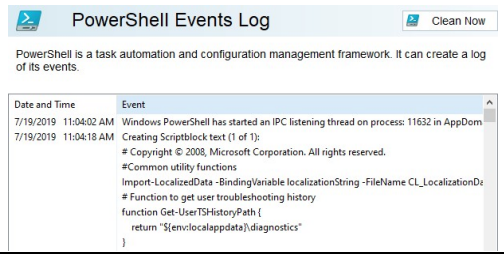
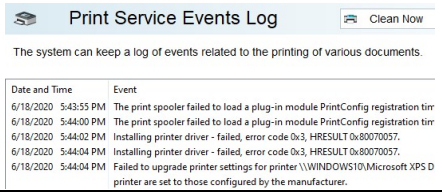
| Partition Diagnostics Events Log (Windows 10+) |  |
| PCW Diagnostics Events Log |  |
| Performance Diagnostics Events Log |  |
| PnP Device Configuration Log |  |
| PnP Service Events Log |  |
| PowerShell Diagnostics Log |  |
| PowerShell Events Log |  |
| Print Service Events Log |  |

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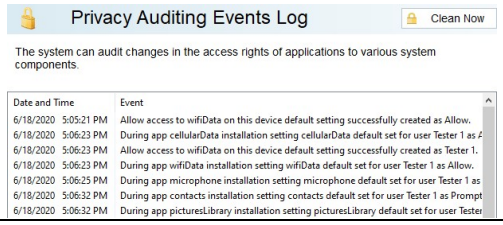
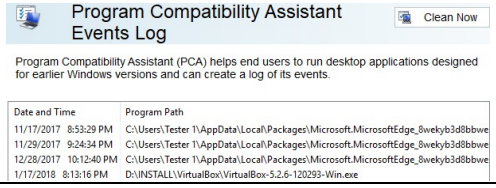
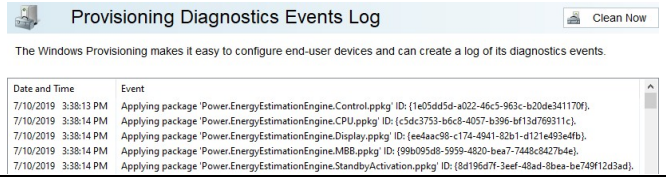
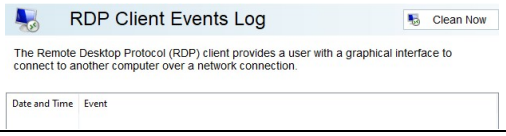
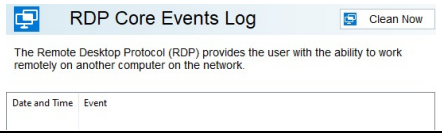
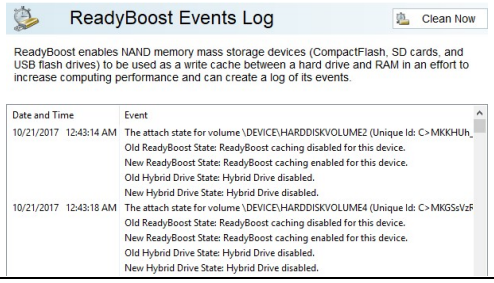
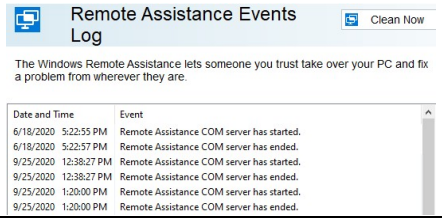
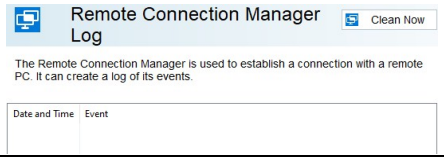
| Privacy Auditing Events Log (Windows 10+) |  |
| PCA Events Log |  |
| Provisioning Diagnostics Events Log (Windows 10+) |  |
| RDP Client Events Log |  |
| RDP Core Events Log |  |
| ReadyBoost Events Log |  |
| Remote Assistance Events Log |  |
| Remote Connection Manager Log |  |

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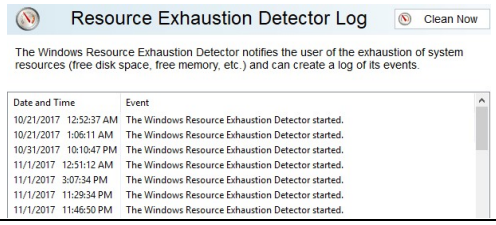
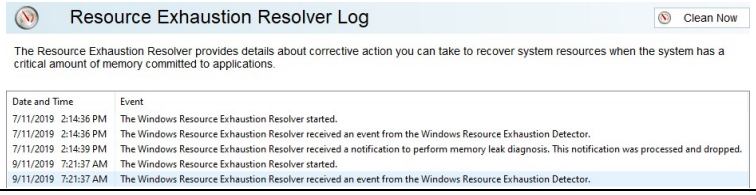
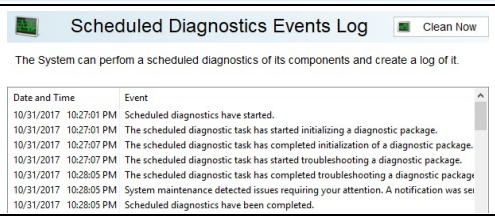
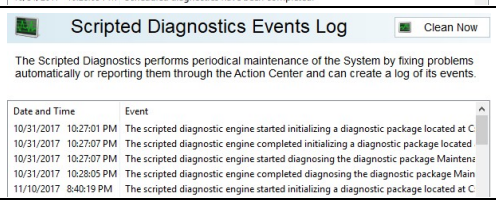
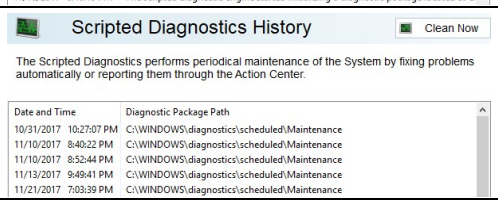
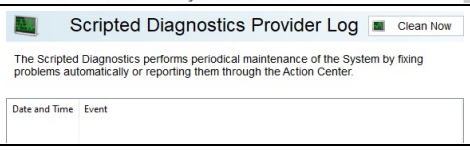
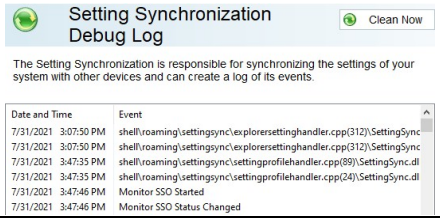
|---|---|
| Resource Exhaustion Detector Log |  |
| Resource Exhaustion Resolver Log |  |
| Scheduled Diagnostics Events Log |  |
| Scripted Diagnostics Events Log |  |
| Scripted Diagnostics History |  |
| Scripted Diagnostics Provider Log |  |
| Security Mitigations Events Log (Windows 10+) | |
| Setting Synchronization Debug Log |  |

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| Setting Synchronization Events Log | Setting Synchronization Events Log<br>Clean Now<br>The Setting Synchronization is responsible for synchronizing the settings of your system with other devices and can create a log of its events.<br>Date and Time / Event<br>7/10/2019 3:41:50 PM shell\roaming\settingsync\settingprofilehandler.cpp(89)\SettingSync.dll!00007FF9DF<br>7/10/2019 3:41:50 PM shell\roaming\settingsync\settingprofilehandler.cpp(24)\SettingSync.dll!00007FF9DF<br>7/10/2019 3:44:36 PM Monitor SSO Started<br>7/10/2019 3:44:36 PM Monitor SSO Status Changed<br>7/10/2019 3:53:58 PM shell\roaming\settingsync\settingprofilehandler.cpp(89)\SettingSync.dll!00007FFA11<br>7/10/2019 3:53:58 PM shell\roaming\settingsync\settingprofilehandler.cpp(24)\SettingSync.dll!00007FFA11<br>7/10/2019 3:55:17 PM Monitor SSO Started<br>7/10/2019 3:55:17 PM Monitor SSO Status Changed |
| Shell Core Action Center Log | Shell Core Action Center Log<br>Clean Now<br>The Action Center can log events that occur in the system's shell core.<br>Date and Time / Event |
| Shell Core Events Log | Shell Core Events Log<br>Clean Now<br>The System can keep a log of some events occurred in the Windows Shell Core.<br>Date and Time / Event<br>10/30/2018 6:35:28 PM Logon task 'LaunchPeopleExperiencePostStart' finished with flags 131092.<br>10/30/2018 6:35:28 PM Logon task 'NotifyTrayStartIsReady' started with flags 131092.<br>10/30/2018 6:35:28 PM Logon task 'NotifyTrayStartIsReady' finished with flags 131092.<br>10/30/2018 6:35:28 PM Logon task 'RoamingPayload3' started with flags 131092.<br>10/30/2018 6:35:28 PM Logon task 'RoamingPayload3' finished with flags 131092.<br>10/30/2018 6:35:28 PM Logon task 'CameraCheck' started with flags 131092. |
| Shell Start Events Log (Windows 10+) | Shell Start Events Log<br>Clean Now<br>The System can create a log of events that occur during Shell startup.<br>Date and Time / Event<br>7/10/2019 3:43:14 PM Data Store Cache secondary data reconciliation start.<br>7/10/2019 3:43:14 PM Data Store Cache secondary data reconciliation end.<br>7/10/2019 3:43:22 PM Data Store Cache secondary data reconciliation start.<br>7/10/2019 3:43:22 PM Data Store Cache secondary data reconciliation end.<br>7/10/2019 3:44:34 PM The collection initialization background task has started processing.<br>7/10/2019 3:44:34 PM The automatic installation of placeholder tiles has started. |
| SMB Client Connectivity Log | SMB Client Connectivity Log<br>Clean Now<br>The Server Message Block (SMB) protocol is mainly used for providing shared access to files and printers and miscellaneous communications between nodes on a network. In the list below you can see the connectivity events of the client-side SMB.<br>Date and Time / Event<br>2/10/2025 12:02:23 PM Added a TCP/IP transport interface.<br>Name: Wi-Fi<br>InterfaceIndex: 0x7<br>2/10/2025 12:02:23 PM Deleted a TDI transport interface.<br>Name: \Device\NetBT_Tcpip_{408DFC5C-B7DB-4EF8-AFFF-5CC2D761D7-<br>2/10/2025 12:02:24 PM Deleted a TCP/IP transport interface.<br>Name: Local Area Connection* 1<br>InterfaceIndex: 0x16<br>2/10/2025 12:02:24 PM Deleted a TCP/IP transport interface.<br>Name: Local Area Connection* 1<br>InterfaceIndex: 0x16 |
| SMB Client Events Log | SMB Client Events Log<br>Clean Now<br>The Server Message Block (SMB) protocol is mainly used for providing shared access to files and printers and miscellaneous communications between nodes on a network. In the list below you can see client-side SMB events.<br>Date and Time / Event<br>10/21/2017 1:04:31 AM Added a TDI transport interface.<br>Name: \Device\NetBT_Tcpip_{8312A666-200E-4A70-8B80-209450CC0F9B}<br>10/21/2017 1:04:31 AM Added a TDI transport interface.<br>Name: \Device\NetBT_Tcpip_{1C9D2EF5-B008-409F-A1C4-92900B82896D}<br>10/21/2017 1:04:31 AM Added a TCP/IP transport interface.<br>Name: Ethernet 2<br>InterfaceIndex: 0x5 |
| SMB Client Security Events Log | SMB Client Security Events Log<br>Clean Now<br>The Server Message Block (SMB) protocol is mainly used for providing shared access to files and printers and miscellaneous communications between nodes on a network. In the list below you can see the securuty events of the client-side SMB.<br>Date and Time / Event<br>7/20/2020 1:55:20 PM<br>5/11/2021 6:42:29 PM The AllowInsecureGuestAuth registry value is not configured with default settings.<br>Default Registry Value:<br>[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanWorkstation\Parameters]<br>"AllowInsecureGuestAuth"=dword:0<br>Configured Registry Value:<br>[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanWorkstation\Parameters]<br>"AllowInsecureGuestAuth"=dword:1<br>5/11/2021 6:49:57 PM The AllowInsecureGuestAuth registry value is not configured with default settings.<br>Default Registry Value:<br>[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanWorkstation\Parameters]<br>"AllowInsecureGuestAuth"=dword:0<br>Configured Registry Value:<br>[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\LanmanWorkstation\Parameters]<br>"AllowInsecureGuestAuth"=dword:1 |

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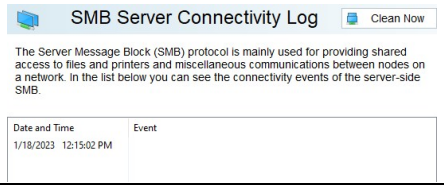
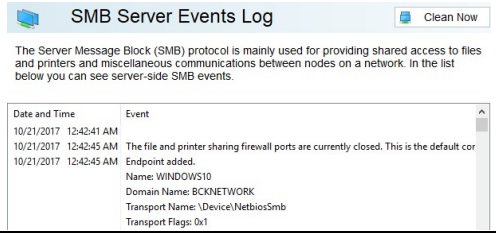
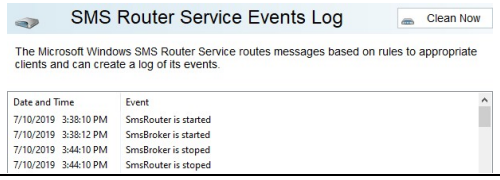
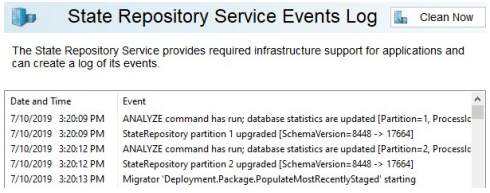
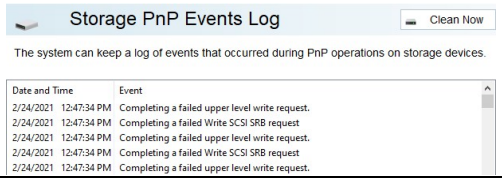
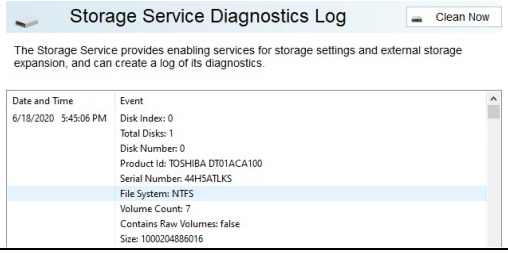
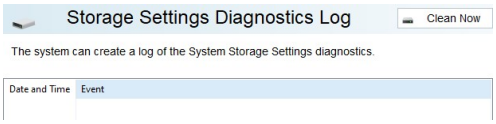
| SMB Server Connectivity Log |  |
| SMB Server Events Log |  |
| SMS Router Service Events Log (Windows 10+) |  |
| SPP UX Events Log | |
| State Repository Service Events Log (Windows 10+) |  |
| Storage Management Events Log (Windows 10+) | |
| Storage PnP Events Log |  |
| Storage Service Diagnostics Log (Windows 10+) |  |
| Storage Settings Diagnostics Log |  |

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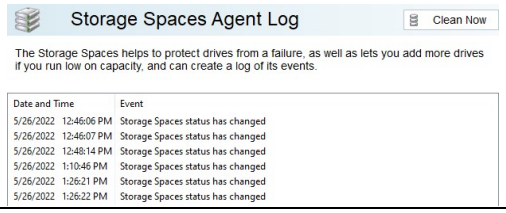
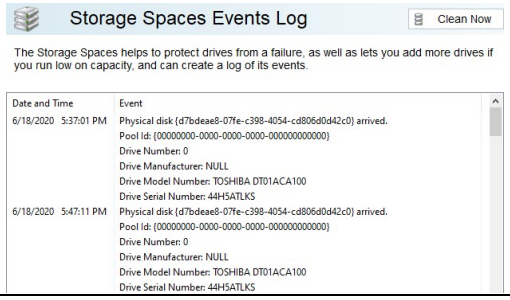
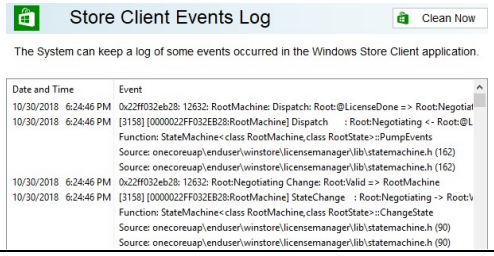
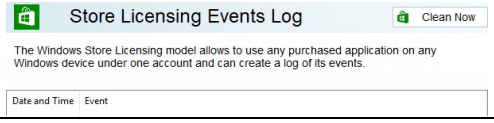
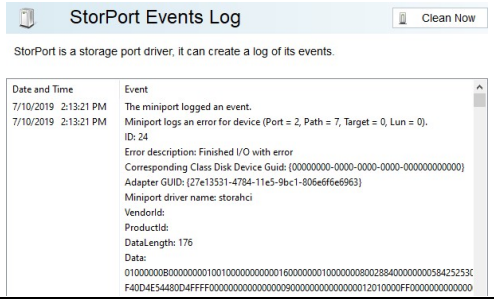
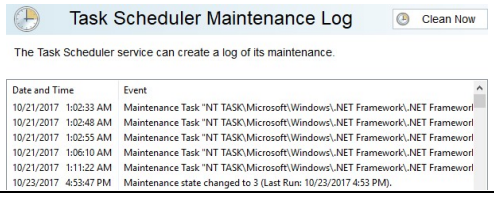
| (Windows 10+) | |
| Storage Spaces Agent Log |  |
| Storage Spaces Events Log (Windows 8 and later) |  |
| Store Client Events Log |  |
| Store Licensing Events Log |  |
| StorPort Dagnostics Events Log (Windows 10+) | |
| StorPort Events Log |  |
| Task Scheduler Maintenance Log |  |

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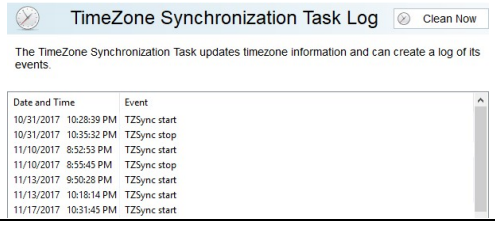
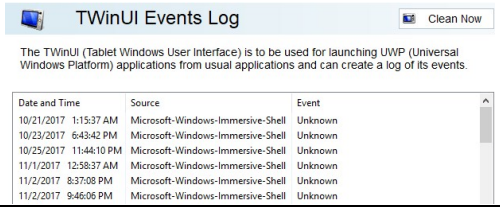
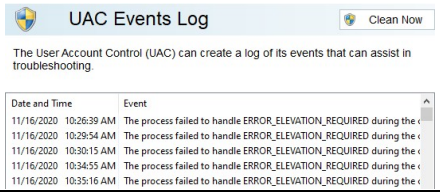
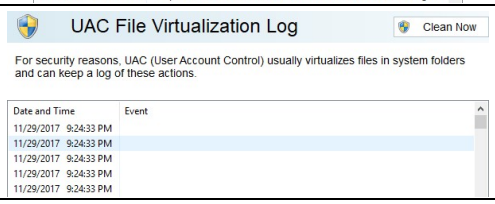
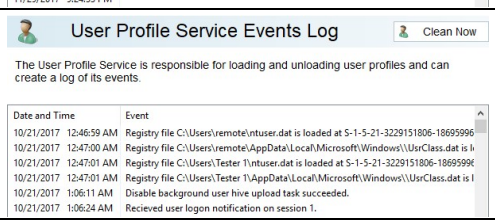
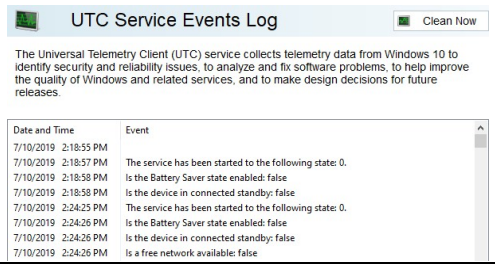
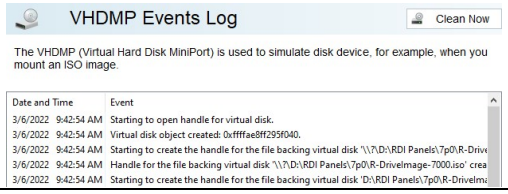
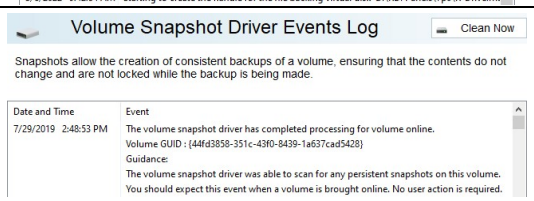
| | |
|---|---|
| TimeZone Synchronization Task Log |  |
| TWinUI Events Log |  |
| UAC Events Log |  |
| UAC File Virtualization Log |  |
| User Profile Service Events Log |  |
| UTC Service Events Log (Windows 10+) |  |
| VHDMP Events Log |  |
| Volume Snapshot Driver Events Log (Windows 10+) |  |

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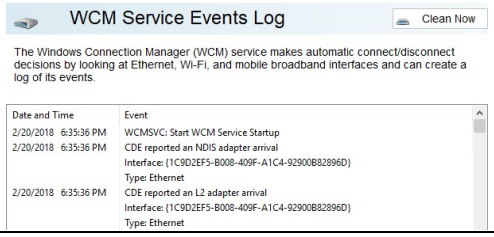
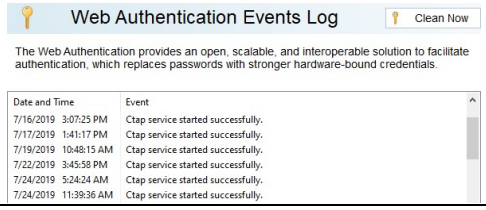
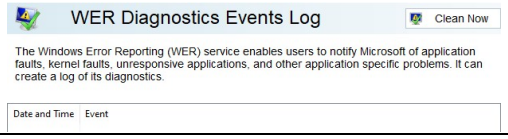
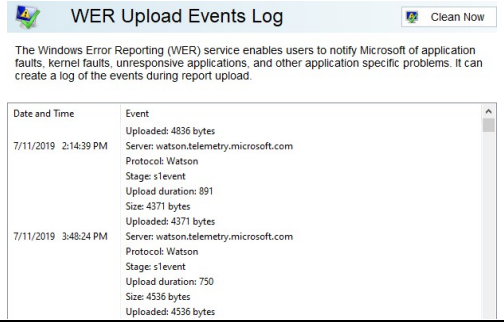
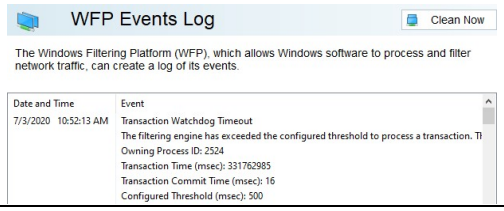
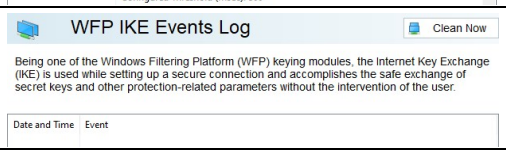
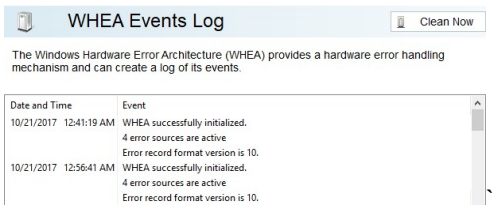
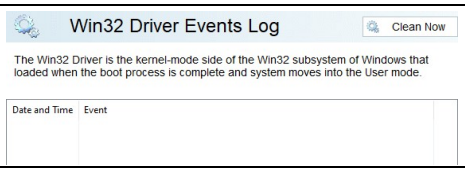
| | |
|---|---|
| WCM Service Events Log |  |
| Web Authentication Events Log (Windows 10+) |  |
| WER Diagnostics Events Log |  |
| WER Upload Events Log (Windows 10+) |  |
| WFP Events Log |  |
| WFP IKE Events Log |  |
| WHEA Events Log |  |
| Win32 Driver Events Log (Windows 10+) |  |

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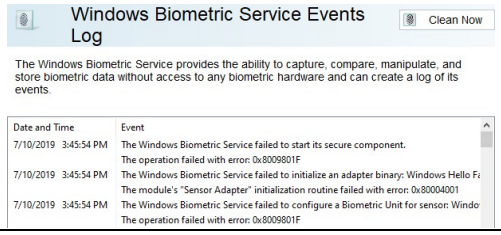
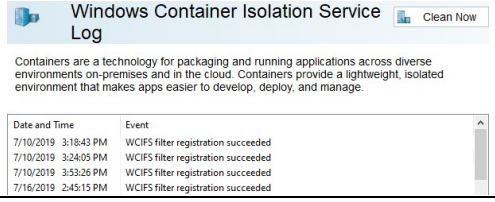
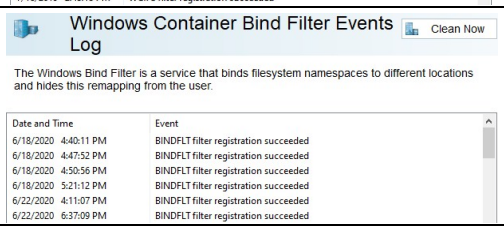
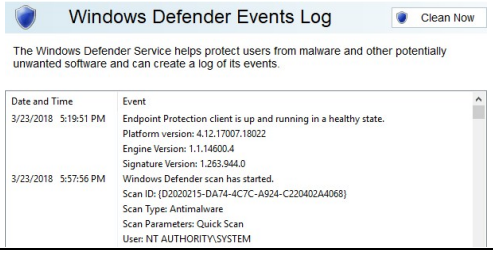
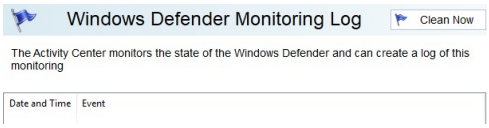
| | |
|---|---|
| Windows Biometric Service Events Log |  |
| Windows Container Isolation Service Log (Windows 10+) |  |
| Windows Container Bind Filter Log (Windows 10+) |  |
| Windows Defender Events Log |  |
| Windows Defender Monitoring Log |  |
| Windows Firewall Diagnostics Log (Windows 10+) | |
| Windows Firewall Events Log | |

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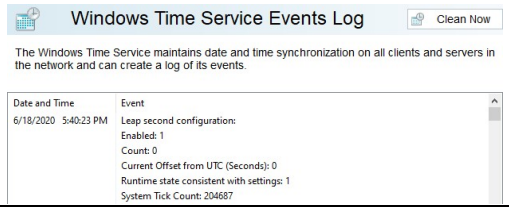
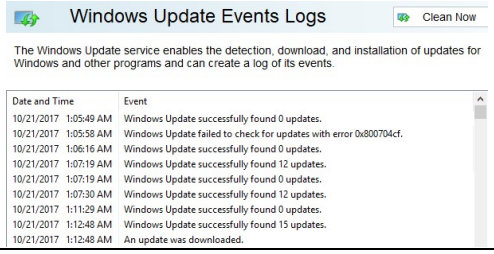
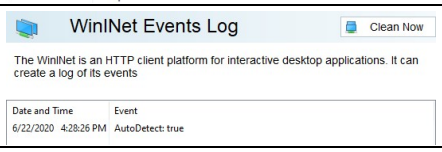
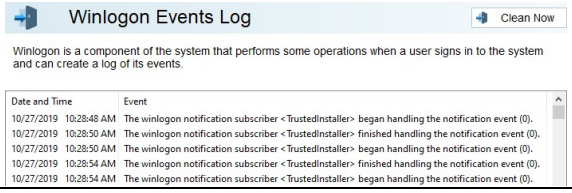
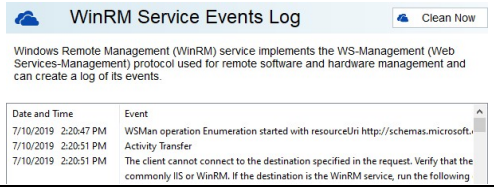
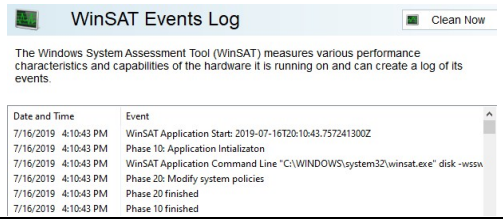
| | |
|---|---|
| Windows Hello Events Log | |
| Windows Time Service Events Log (Windows 10+) |  |
| Windows Update Events Log |  |
| WinINet Events Log |  |
| Winlogon Events Log |  |
| WinRM Service Events Log |  |
| WinSAT Events Log |  |
| WLAN AutoConfig Service Events Log | |

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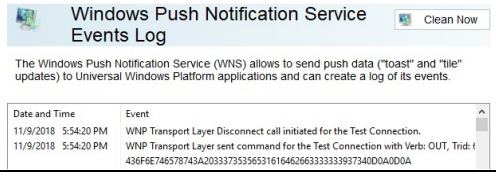
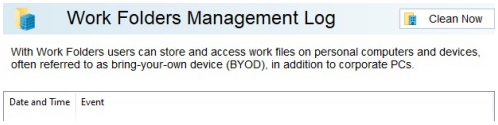
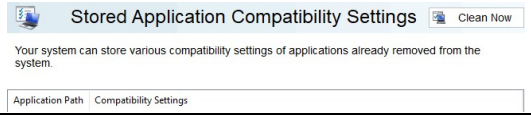
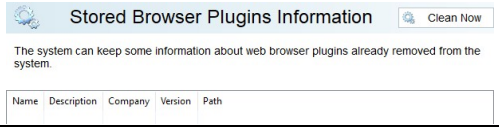
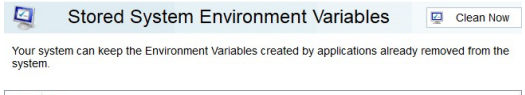
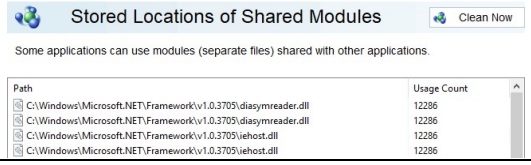
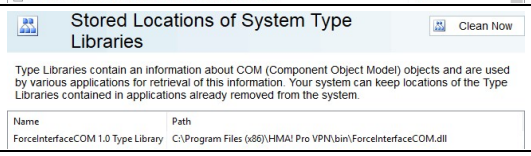
| | |
|---|---|
| WMI Events Log | |
| WNS Events Log |  |
| Work Folders Events Log | |
| Work Folders Management Log |  |
| WPD MTP Events Log | |

***Storing Traces: More Information…***

| | |
|---|---|
| This part allows you to inspect and clean various traces (mostly insignificant) left by some system applications and services, some already removed from your system. Most of these traces are stored in the Registry. | |
| Stored Application Compatibility Settings |  |
| Stored Browser Plugins Information |  |
| Stored System Environment Variables |  |
| Stored Locations of Shared Modules |  |
| Stored Locations of System Type Libraries |  |

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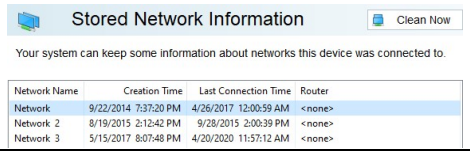
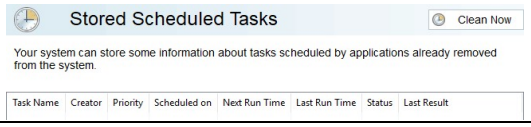
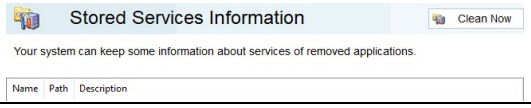
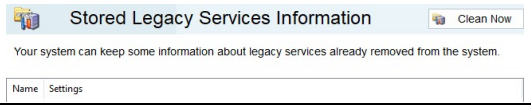
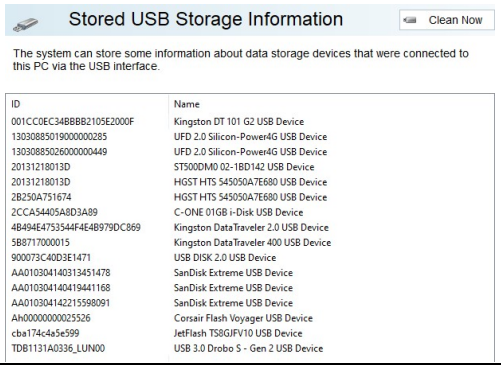
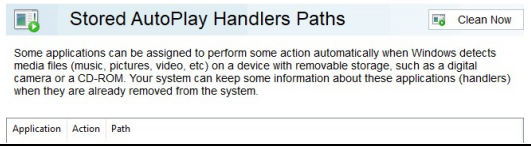
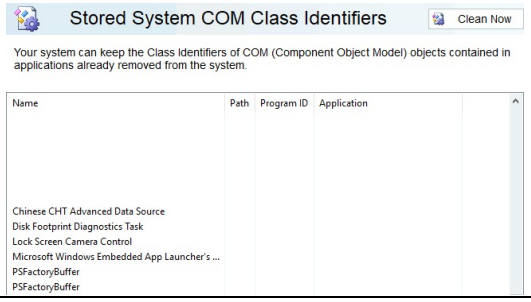
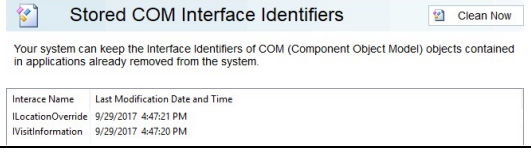
| | |
|---|---|
| Stored Network Information |  |
| Stored Scheduled Tasks |  |
| Stored Services Information |  |
| Stored Legacy Services Information |  |
| Stored USB Storage Information |  |
| Stored Wireless Networks Profiles | |

***Associativity Traces: More Information…***

| | |
|---|---|
| This part allows you to inspect and clean various traces connected with associativity of file types, protocols, etc., with already removed applications. | |
| Stored AutoPlay Handlers Paths |  |
| Stored COM Class Identifiers |  |
| Stored COM Interface Identifiers |  |

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| | |
|---|---|
| Stored e-Mail Programs Information | Stored e-Mail Programs Information<br>Clean Now<br>Your system can store some information about e-mail applications already removed from the system.<br>Application \| Path<br>Windows Mail |
| Stored Event Logging Applications Information | Stored Event Logging Applications Information<br>Clean Now<br>Some applications can log various events in Application log of your system and some information about such applications can be kept in the system when they are already removed from the system.<br>Application \| Path \| Types of Logged Events |
| Stored System File Types | Stored System File Types<br>Clean Now<br>Your system can keep the filename extensions recognized by applications already removed from the system.<br>Pay attention! Only extensions with "Yes" in the "Will be Deleted" column will be unregistered (removed).<br>For others only links to applications already removed from the system will be deleted.<br>File Name Extension \| Will be Deleted \| File Type \| Program ID \| Application<br>.epub \| Yes<br>.fif \| Yes<br>.man \| Yes<br>.msepub \| Yes<br>.oex \| No \| OperaStable.Extension<br>.vor \| Yes |
| Stored Firewall Rules | Stored Firewall Rules<br>Clean Now<br>Your system can store the Firewall rules for applications already removed from the system.<br>Name of Rule \| Application Name \| Description \| Application Path \| Action \| Is Active \| Direction \| Profile \| Protocol \| Version |
| Stored Info of Connection IA Apps | Stored Info of Connection IA Apps<br>Clean Now<br>Your system can store some information about Image Acquisition applications - the programs that appear when you connect an image-capturing device, like a scanner, digital photo or movie camera, etc.<br>Name \| Path \| Description |
| Stored Info of Proxy IA Apps | Stored Info of Proxy IA Apps<br>Clean Now<br>Your system can store some information about Image Acquisition applications - programs that operate with image-capturing devices, like a scanner, digital photo or movie camera, etc - assigned to be launched on some event in these devices - connecting, disconnecting, pressing Scan button, etc - if no other programs are assigned for this particular event.<br>Path \| Description |
| Stored Info of Scan Button IA Apps | Stored Info of Scan Button IA Apps<br>Clean Now<br>Your system can store some information about Image Acquisition applications - programs that appear when you press the Scan button of a scanner.<br>Name \| Path \| Description |
| Stored Media Players Information | Stored Media Players Information<br>Clean Now<br>The system can store some information about Media Playres already removed from the system.<br>Application \| Path |
| Stored MIME Types | Stored System MIME Types<br>Clean Now<br>Your system can keep the MIME (Multipurpose Internet Mail Extensions) types registered by applications already removed from the system.<br>MIME Type \| File Name Extension<br>application/vnd.stardivision.writer \| application/vnd.stardivision.writer<br>audio/webm \| audio/webm |
| Stored News Readers Information | Stored News Readers Information<br>Clean Now<br>Your system can store some information about News Readers already removed from the system.<br>Application \| Path |
| Stored Perceived Types Applications | Stored Perceived Types Applications<br>Clean Now<br>Perceived Types are similar to file types except they refer to broad categories of file format types, rather than specific file types. Your system can keep names of applications - already removed from the system - which some perceived types were associated with.<br>Perceived Type \| Application |

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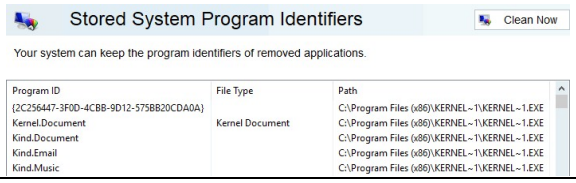
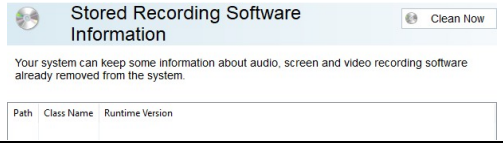
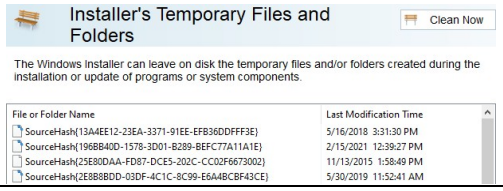
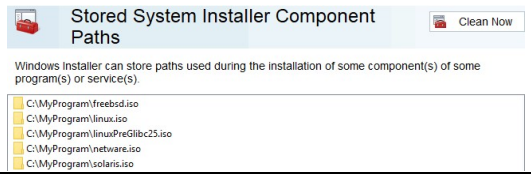
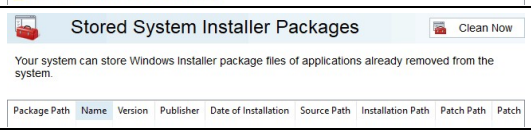
| | |
|---|---|
| Stored System Program Identifiers |  |
| Stored Recording Software Information |  |
| Stored Web Browsers Information | |

***Installer Traces: More Information...***

This part allows you to inspect and clean various data left by installers of already removed applications. Most of these traces are stored in the Registry. Sometimes you may significantly clean the Registry by removing these traces.

| | |
|---|---|
| Installer's Temporary Files and Folders |  |
| Stored System Installation Information | |
| Stored Installer Components Paths |  |
| Stored Installer Folders | |
| Stored Installer Packages |  |
| Stored Installer Registry Keys | |
| Stored Programs and Features Info | |

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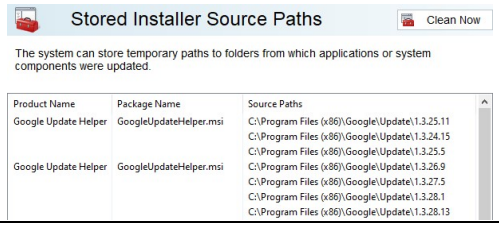
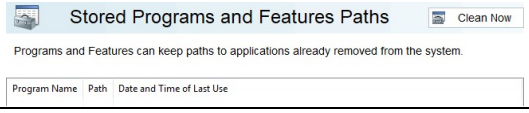
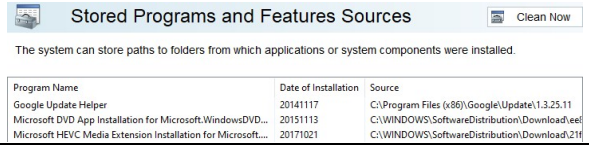
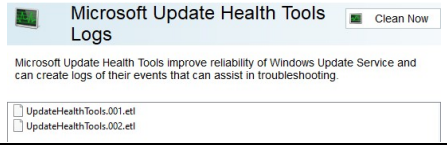
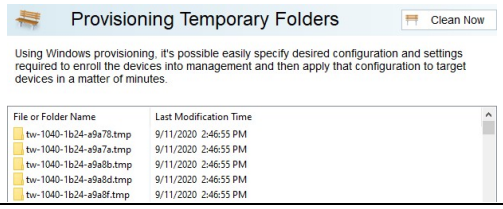
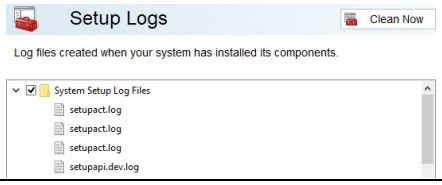
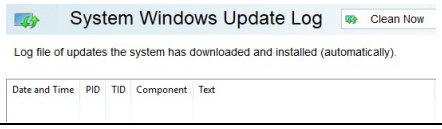
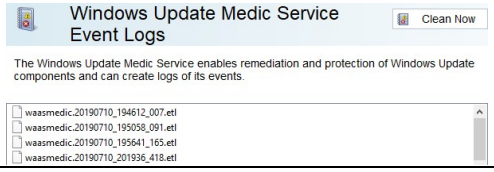
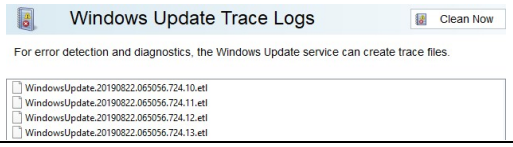
| | |
|---|---|
| Stored Installer Source Paths |  |
| Stored Programs and Features Paths |  |
| Stored Programs and Features Sources |  |
| Stored Store Install Information | |

***Setup and Update Traces: More Information…***

| This part allows you to inspect and clean various data left by system setups and updates. | |
|---|---|
| Microsoft Update Health Tools Log (Windows 10+) |  |
| Provisioning Temporary Folders (Windows 10+) |  |
| Setup Logs |  |
| System Windows Update Logs |  |
| Windows Update Medic Service Events Logs |  |
| Windows Update Trace Logs |  |

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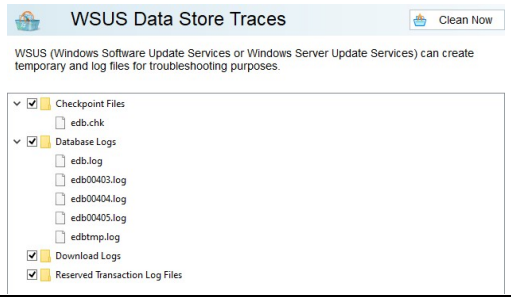
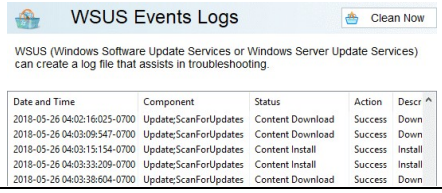
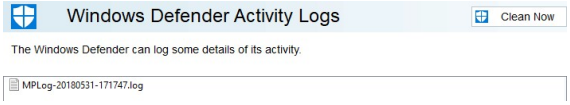
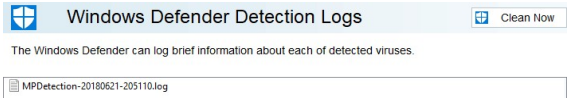
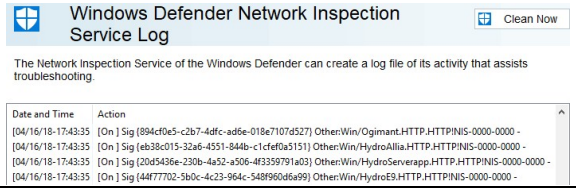
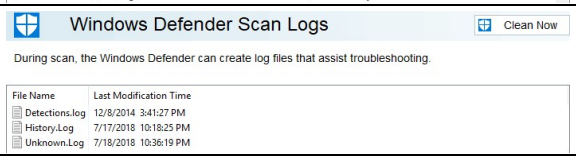
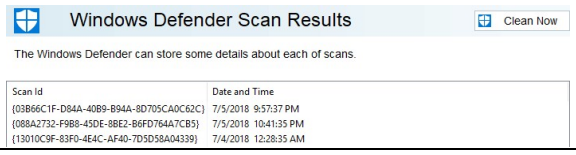
| | |
|---|---|
| WSUS Data Store Traces |  |
| WSUS Events Log |  |

***Program Data Traces: More Information…***

| This part allows you to inspect and clean various traces left by system services and installed application and which are common to all users of this computer. | |
|---|---|
| Windows Defender Activity Log |  |
| Windows Defender Delayed Reports | |
| Windows Defender Detection Log |  |
| Windows Defender Network Inspection Service Log |  |
| Windows Defender Scan Logs |  |
| Windows Defender Scan Results |  |

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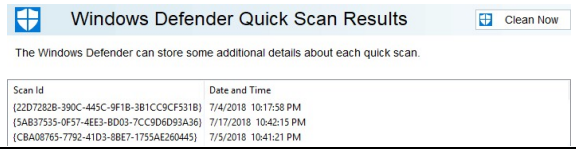
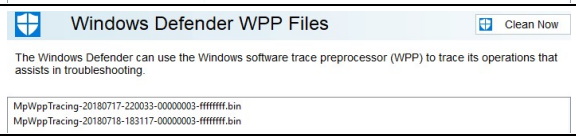
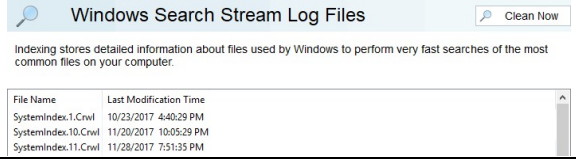
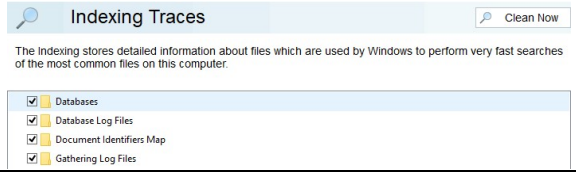
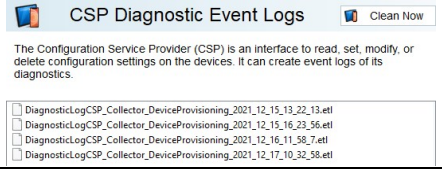
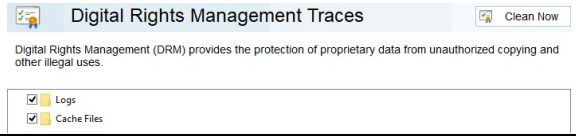
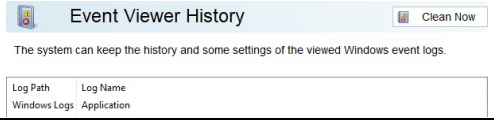
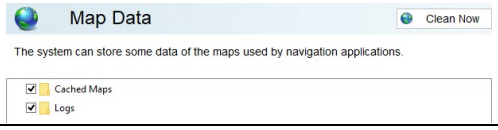
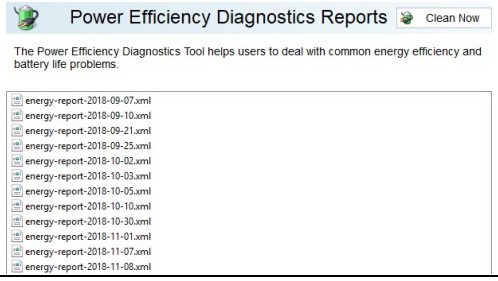
| | |
|---|---|
| Windows Defender Quick Scan Results |  |
| Windows Defender WPP Files |  |
| Common Windows Search Databases | |
| Windows Search Indexing Files | |
| Windows Search Stream Log Files |  |
| Indexing Traces |  |
| CSP Diagnostic Event Logs (Windows 10 and later) |  |
| Digital Rights Management Traces |  |
| Event Viewer History |  |
| Map Data |  |
| Power Efficiency Diagnostics Reports |  |

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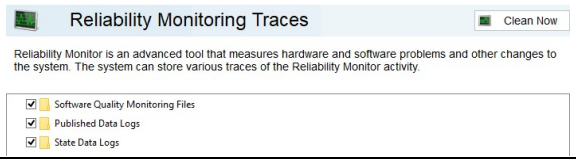
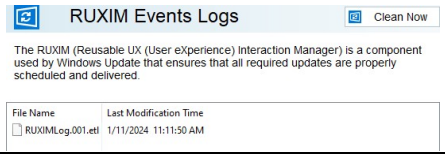
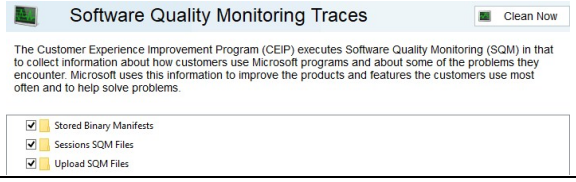
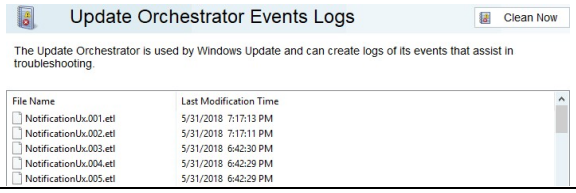
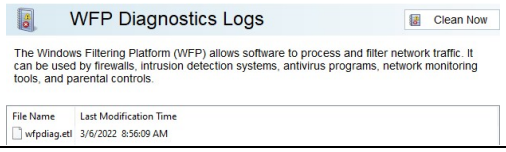
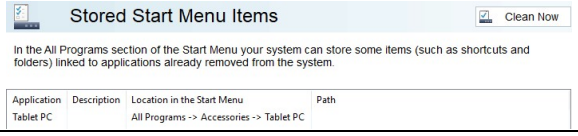
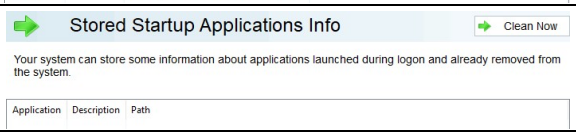
| | |
|---|---|
| Reliability Monitoring Traces |  |
| RUXIM Events Log |  |
| Software Quality Monitoring Traces |  |
| Update Orchestrator Events Logs |  |
| WFP Diagnostics Logs |  |
| Windows Security Service Logs | |
| App Repository | |
| Stored Start Menu Items |  |
| Stored Startup Application Info |  |

***Services Accounts Traces: More Information…***

This part allows you to inspect and clean various traces left by 3 predefined system accounts : Local System, Local Service, and Network Service.

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| | |
|---|---|
| System Registry Traces | Registry Traces of Services Accounts<br>Clean Now<br>Registry records of items used by System (Recent System Applications, etc).<br>Local System's Recent Direct3D Application |
| Local Service's Temporary Files | Local Service's Temporary Files<br>Clean Now<br>List of temporary files created under "Local Service" account.<br>File or Folder Name / Last Modification Time<br>EVTF677.tmp 5/22/2018 8:26:03 PM<br>MSGF665.tmp 5/22/2018 8:26:03 PM<br>PUBF676.tmp 5/22/2018 8:26:03 PM |
| Local System's Temporary Files | Local System's Temporary Files<br>Clean Now<br>List of temporary files created under "Local System" account.<br>File or Folder Name / Last Modification Time |
| Network Service's Temporary Files | Network Service's Temporary Files<br>Clean Now<br>List of temporary files created under "Network Service" account.<br>File or Folder Name / Last Modification Time<br>{5DC3ACA0-90F1-4C62-AB4C-EBFD368B813B} 3/2/2018 9:22:10 PM<br>mpam-a592fab9.exe 3/2/2018 9:22:09 PM<br>mpam-e95d572b.exe 6/28/2018 6:27:08 PM<br>mpasdlta.vdm 3/2/2018 9:22:10 PM<br>mpavdlta.vdm 3/2/2018 9:22:09 PM<br>MpCmdRun.log 7/18/2018 10:16:07 PM<br>MPSigStub.exe 3/2/2018 9:22:09 PM<br>MpSigStub.log 7/18/2018 10:16:06 PM |
| LSyss Direct3D Shader Cache | Local System's Direct3D Shader Cache<br>Clean Now<br>The Direct3D Shader Caching Library of the System can create a cache of its files.<br>File Name / Last Modification Time |
| Local Service's Cached Certification Files | Local Service's Cached Certificates<br>Clean Now<br>Your system may store a cache of certificates (digitally signed statements commonly used for authentication and to secure information on open networks).<br>Web Address<br>http://ctldl.windowsupdate.com/msdownload/update/v3/static/trustedr/en/disallowedcertstl.cab<br>http://ocsp.digicert.com/MFEwTzBNMEswSTAJBgUrDgMCGgUABBTBL0V27RVZ7LBduom%2FnYB45SPUEwQU5Z1ZMUHWMys%2 |
| Local System's Cached Certification Files | Local System's Cached Certificates<br>Clean Now<br>Your system may store a cache of certificates (digitally signed statements commonly used for authentication and to secure information on open networks).<br>Web Address<br>http://crl.globalsign.com/gs/gscodesigng2.crl<br>http://crl.globalsign.net/primobject.crl<br>http://crl.globalsign.net/Root.crl<br>http://crl.verisign.com/tss-ca.crl<br>http://ctldl.windowsupdate.com/msdownload/update/v3/static/trustedr/en/authrootstl.cab<br>http://ctldl.windowsupdate.com/msdownload/update/v3/static/trustedr/en/disallowedcertstl.cab |
| Network Service's Cached Certification Files | Network Service's Cached Certificates<br>Clean Now<br>Your system may store a cache of certificates (digitally signed statements commonly used for authentication and to secure information on open networks).<br>Web Address<br>http://ctldl.windowsupdate.com/msdownload/update/v3/static/trustedr/en/disallowedcertstl.cab<br>http://ocsp.digicert.com/MFEwTzBNMEswSTAJBgUrDgMCGgUABBTBL0V27RVZ7LBduom%2FnYB45SPUEwQU5Z1ZMUHWMys%2<br>http://ocsp.digicert.com/MFEwTzBNMEswSTAJBgUrDgMCGgUABBTBL0V27RVZ7LBduom%2FnYB45SPUEwQU5Z1ZMUHWMys%2<br>http://ocsp.msocsp.com/MFQwUjBQME4wTDAJBgUrDgMCGgUABBRPC1vZt9qvn7bzY3lidtbhla4mKQQUWlif1tycSCK3FD7%2Fhlj |
| Local System Cached File Extensions | Local System's Cached File Extensions<br>Clean Now<br>For performance improvement, your system can create a cache of the filename extensions representing the file types registered by applications maybe already removed from the system.<br>File Name Extension / Program ID<br>.zip<br>.rtf<br>.pdf<br>.mts<br>.html<br>.cab<br>.bmp |

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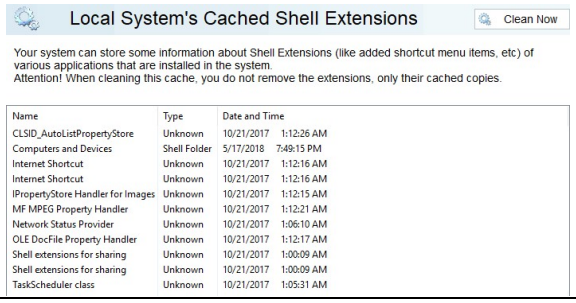
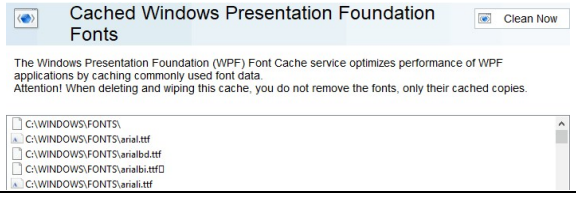
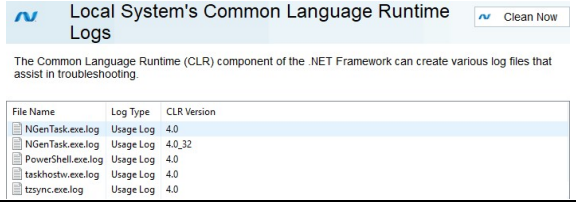
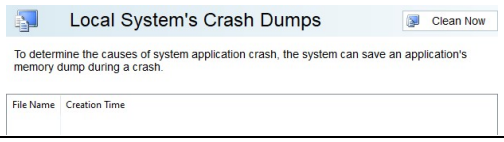
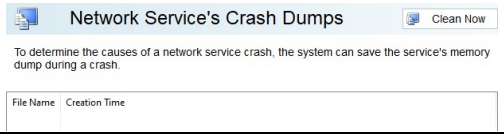
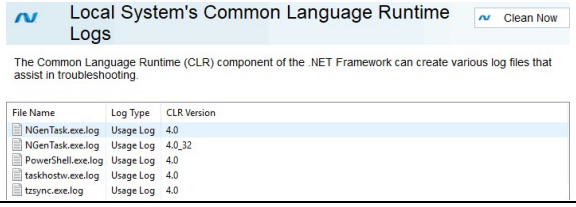
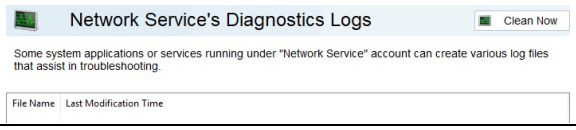
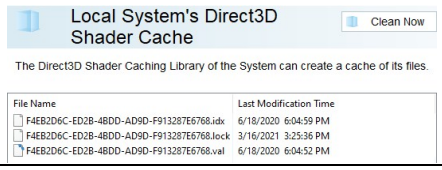
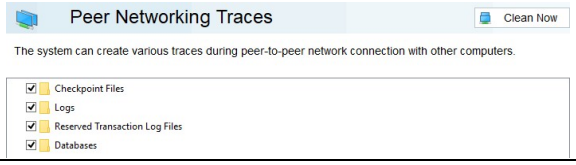
| | |
|---|---|
| Local System Cached Shell Extensions |  |
| Cached WPF Fonts |  |
| Local System's Common Language Runtime Logs |  |
| Local System's Crash Dumps |  |
| Network Service's Crash Dumps |  |
| Delivery Optimization Service Cache Files |  |
| Network Service's Diagnostics Logs |  |
| Local System's Direct3D Shader Cache |  |
| Peer Networking Traces |  |

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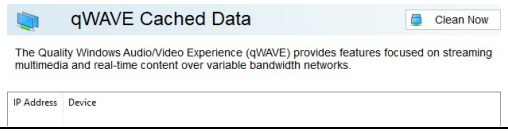
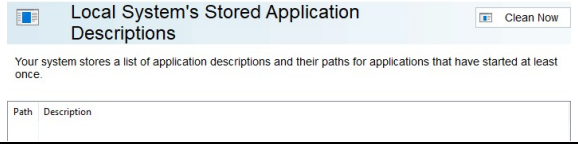
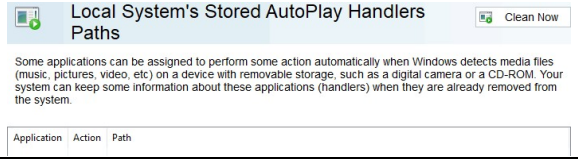
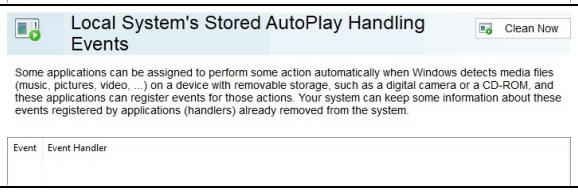
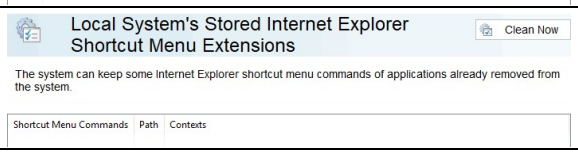
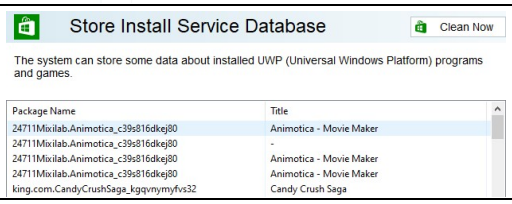
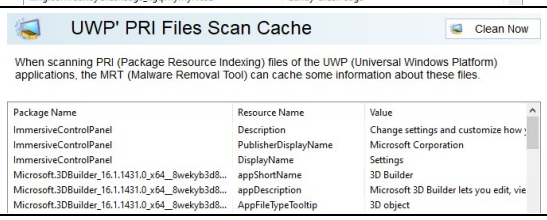
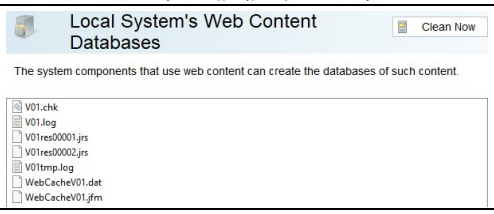
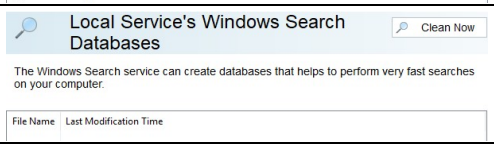
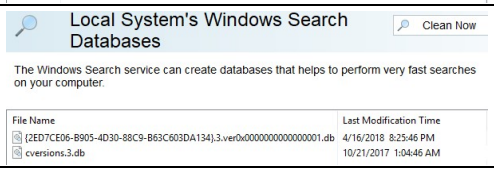
| | |
|---|---|
| qWAVE Cached Data |  |
| Local System Stored Application Descriptions |  |
| Local System Stored AutoPlay Handlers Paths |  |
| Local System Stored AutoPlay Handling Events |  |
| Local System Stored Internet Explorer Shortcut Menu Extensions |  |
| Store Install Service Database |  |
| UWP' PRI Files Scan Cache |  |
| LSys's Web Content Databases |  |
| Local Service's Windows Search Databases |  |
| Local System's Windows Search Databases |  |

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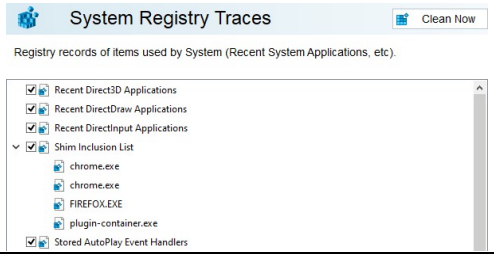
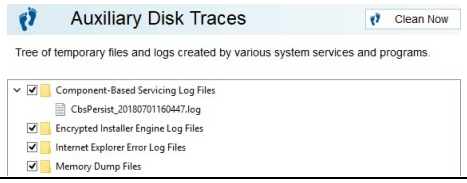
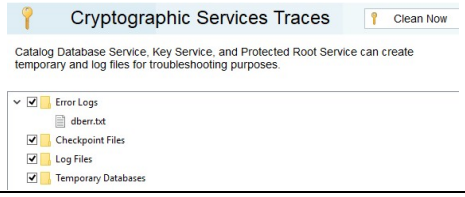
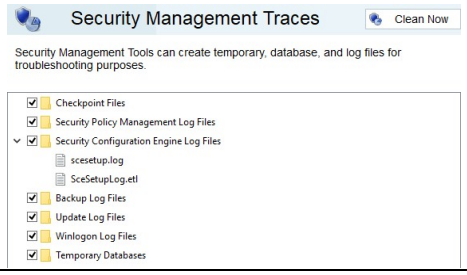
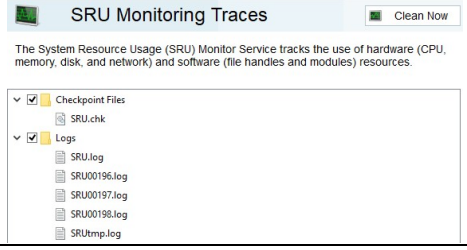
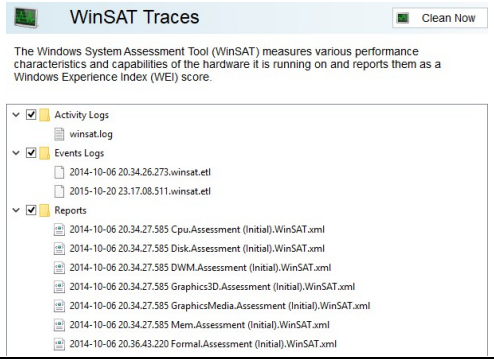
***Aggregate Traces: More Information…***

| This part allows you to inspect and clean various multiple-part traces. Any part of these traces can be removed separately. | |
|---|---|
| System Registry Traces |  |
| Auxiliary Disk Traces |  |
| Cryptographic Services Traces |  |
| Security Management Traces |  |
| SRU Monitoring Traces |  |
| WinSAT Traces |  |

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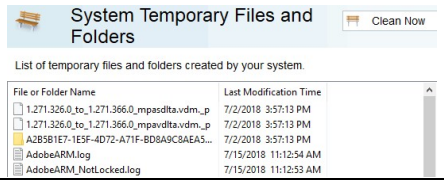
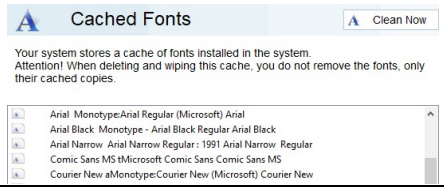
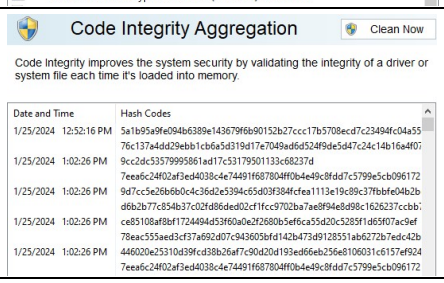
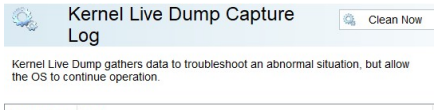
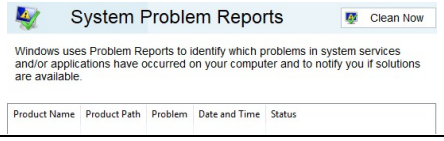
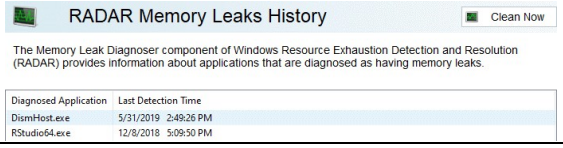
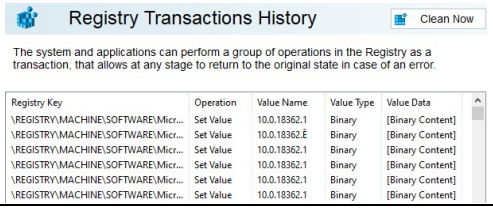
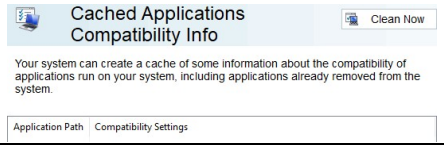
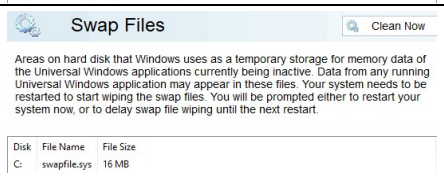
***Miscellaneous Traces: More Information...***

| This part allows you to inspect and clean various miscellaneous traces. | |
|---|---|
| System Temporary Files and Folders |  |
| Cached Fonts |  |
| Code Integrity Aggregation (Windows 10+) |  |
| Kernel Live Dump Files |  |
| System Problem Reports |  |
| RADAR Memory Leaks History |  |
| Registry Transactions History |  |
| Cached Applications Compatibility Info |  |
| Swap Files |  |

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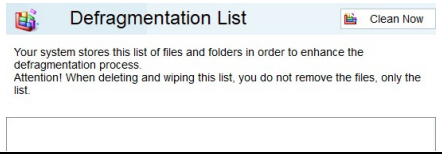
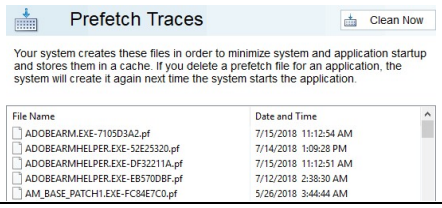
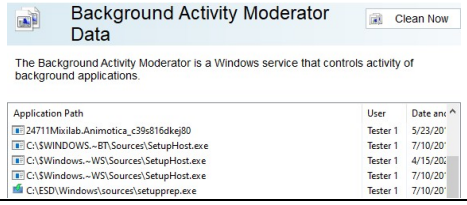
| | |
|---|---|
| | To start wiping swap files, you must restart your system. You will be prompted either to restart your system to start wiping the swap files, or to delay wiping until the next restart. |
| Defragmentation List |  |
| Prefetch Traces |  |
| Background Activity Moderator Data<br>(Windows 10+) |  |

#### 2.4.2.4 Cleaning Program Traces

You may clean various caches, logs, temporary files, recent files lists, caches, and other traces left by a number of applications.

You may also include program traces into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

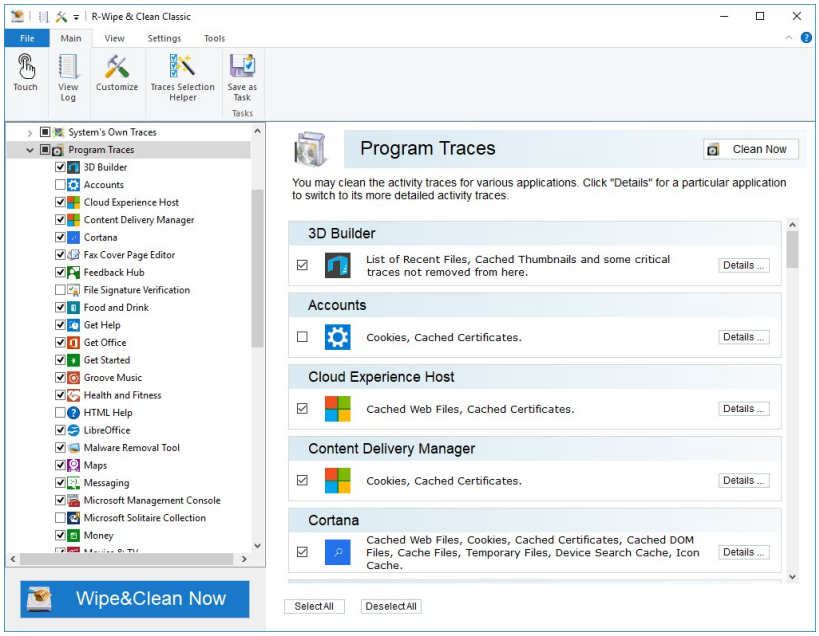
The list of items visible on the **Program Traces** panel can be edited on the **Customize** panel.

**To clean traces of the programs,**

- Select the **Program Traces** tab.

The **Program Traces** panel will appear in the right pane.

**Program Traces panel**




- Select the required items and click the **Clean Now** button.

**R-Wipe & Clean** will start cleaning the computer. When **R-Wipe & Clean** finishes cleaning, the **Report** dialog box will appear showing cleaning results.

## 2.5 Wiping Tasks and Scheduler

You can specify a large wipe and clean task, which may include wiping unused disk space, cleaning your computer from any Internet and document links, and one or several wipe lists. You may start this task immediately or set a special time/event when this task will be started automatically.

- Creating a Large Wipe and Clean Task
- Using Scheduler
- Starting Tasks from a Command Line and Shortcuts
- Importing Task from a Command Line

### 2.5.1 Creating a Large Wipe and Clean Task

You may specify a large wipe and clean task, which may include wiping free disk space, cleaning your computer from any internet and document links, and one or several wipe lists.

**To set a large wipe and clean task,**

- In the Tree mark the items you want to clean and click the **Wipe&Clean Now** button.
  You may see the contents of any particular item on its respective panel on the right pane.

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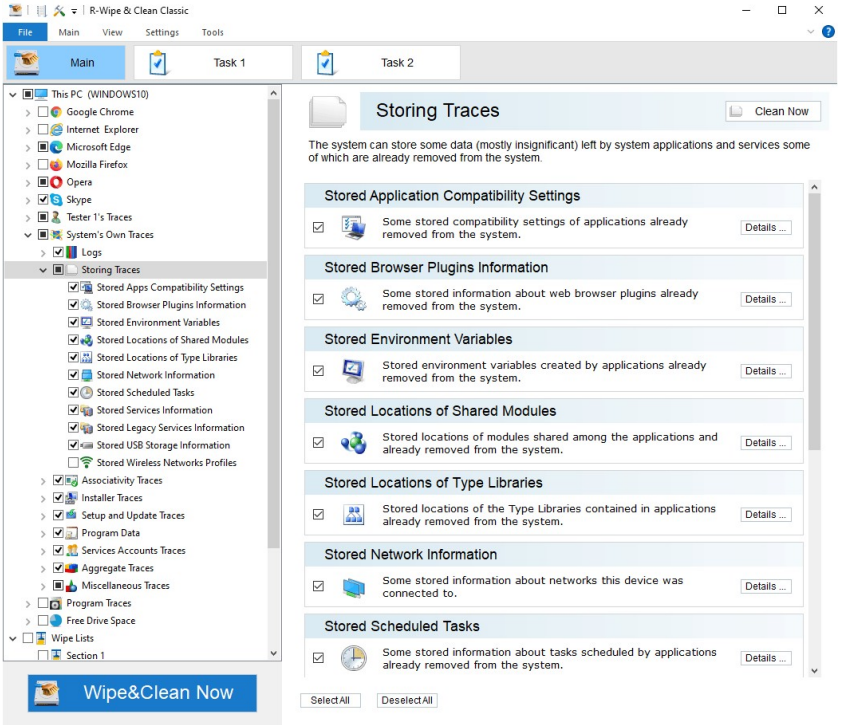
**Task panel**




**R-Wipe & Clean** will start cleaning the computer, and the **Deleting and wiping** dialog box will appear showing the cleaning progress.

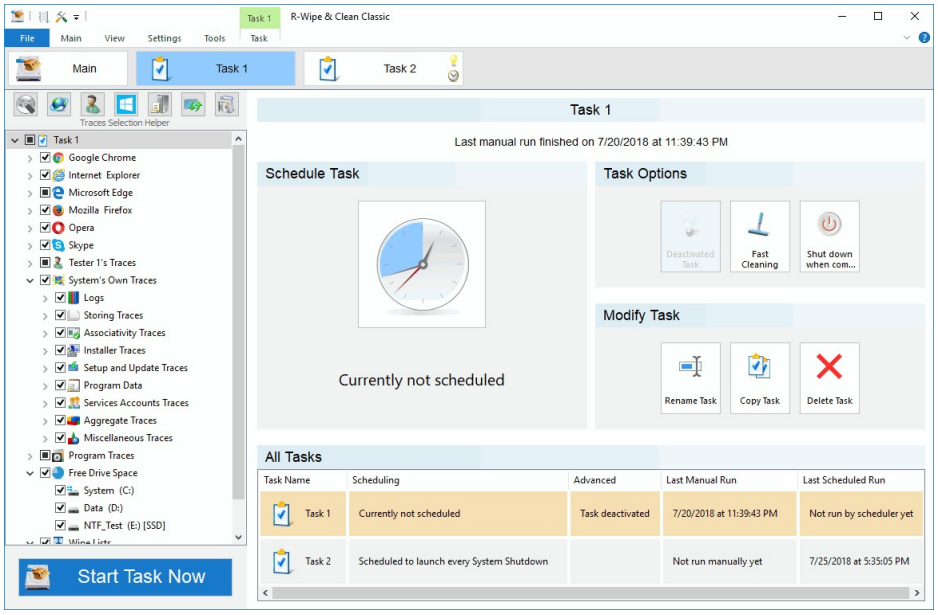
When **R-Wipe & Clean** finishes wiping and cleaning, the **Report** dialog box will appear showing cleaning results.

You may save the task to run in future, either manually or using the **Scheduler**.

**To save a large wipe and clean task,**

- Select **Save as Task** on the **Main** menu.

**Saved Task panel**

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### *Managing Existing Wipe and Clean Tasks*

The existing tasks appear in the **Wipe and Clean tasks** list on the **R-Wipe & Clean** right pane. You may modify/delete/schedule an existing task when it's selected.

***More Information...***

| | |
|---|---|
| Schedule Task | Click this button to schedule the task |
| Deactivate Task | Click this button to toggle task activation/deactivation. A deactivated task won't be started by the scheduler, but it can be run manually. |
| Fast Cleaning | Enable this option to run the task faster. When this option is enabled, all files will be deleted rather than wiped regardless of Files Wiping Settings settings. |
| Shut down when completed | Enable this option to shutdown you computer when the task has been completed. |
| Rename Task | Click this button to rename the current task |
| Copy Task | Click this button to copy the current task to another one |
| Delete Task | Click this button to delete the current task |

**To start an existing wipe and clean task manually,**

- Select the task and then click the **Start Task Now** button.

**R-Wipe & Clean** will start cleaning the computer, and the **Deleting and wiping** dialog box will appear showing the cleaning progress. When **R-Wipe & Clean** finishes wiping and cleaning, the **Report** dialog box will appear showing cleaning results.

**To edit an existing wipe and clean task,**

- Select the required task.
- Make the necessary changes and click **Save Changes** on the **Task** menu.

**R-Wipe & Clean** may automatically save all changes if **automatically save changes in the tree of the task items** is selected on the Tasks Settings panel.

**To deactivate/activate all existing wipe and clean tasks in the Wipe and Clean Tasks list,**

- Select **Deactivate/Activate All Tasks** on the **Task** menu.

**To delete all existing wipe and clean tasks in the Wipe and Clean Tasks list,**

- Select **Delete All Tasks** on the **Task** menu.

### *Transferring Tasks from One Computer to Another*

You may transfer tasks from one computer to another with installed **R-Wipe & Clean**. For example, you can create a certain task on one computer and then distribute it over several computers.

**To export a wipe and clean task,**

- Select **Tasks Transfer** on the **Tools** menu and select **Export Tasks** on the **Tasks Transfer** dialog box.

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**Export Tasks panel**

- Select the required task and click the **Exported Selected Tasks** button.

**To import a wipe and clean task,**

- Select **Tasks Transfer** on the **Tools** menu and select **Import Tasks** on the **Tasks Transfer** dialog box.
- Select the required file and click the **Open** button.

## 2.5.2 Using Scheduler

You may set a large wipe and clean task to run at a specified time or event. You may have several such tasks, each starting at its own time or event. You may even start such tasks from a command line.

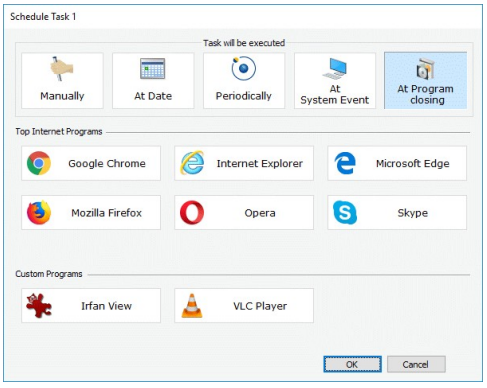
### *Creating a Large Wipe and Clean Task at a Specified Time or Event*

**To schedule a new large wipe and clean task,**

- Create and save a wipe & clean task
- Click the **Schedule Task** button.

A **Schedule Task** dialog box will appear.

**Schedule Task dialog box**




- Specify time or event at which the task will start and other task options on the **Schedule Task** dialog box, and click the **OK** button.

***Time or event***

| Depending on the specified time or event, the fields Date and Time may change their names | |
|---|---|
| Manually | The wipe and clean task will never start automatically. You may start it manually |
| At Date | The wipe and clean task will start on a specified date at a specified time or the first system startup |
| Periodically | The wipe and clean task will start in a specified time interval: |

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| | | |
|---|---|---|
| | Every Time interval | Every specified time interval (hours and minutes) |
| | Day | Every day at a specified time or the first system startup |
| | Week | Every specified weekday at a specified time or the first system startup |
| | Month | Every specified month day at a specified time or the first system startup |
| At System Event | The wipe and clean task will start at a specified system event | |
| | User Logon | Every user logon |
| | System Startup | Every system startup. The task will start during the first logon after the system startup |
| | User Logoff | Every user logoff |
| | System Shutdown | Every system shutdown. The task will start during the logoff when the system goes off or restarts. |
| At Internet app closing /At Program closing | At every closing a particular browser/communication program or all of them. On the Task Setting, you may add a custom program (not necessary an Internet application) to start running a scheduled task upon its closing. If such a program is added, this item changes its name to At Program closing. | |

### 2.5.3 Starting Tasks from a Command Line and Shortcuts

***Starting a Large Wipe and Clean Task from a command line***

**To start an existing wipe and clean task from a command line,**

- type `RwcRun.exe /t "TaskName"`
  where `TaskName` is the name of a task to run.

You may include this command line in any command file.

***Starting a Large Wipe and Clean Task from a desktop shortcut***

**To start an existing wipe and clean task from a desktop shortcut,**

- Create a command file with the command starting the task.
- Create a shortcut with that command file.

### 2.5.4 Importing Task from a Command Line

***Importing a Wipe and Clean Task from a command line***

**To import an existing wipe and clean task from a command line,**

- type `RwcRun.exe /importtask "Filepath/TaskFile"`
  where `Filepath/TaskName` is the file path and name of a task to import.

## 2.6 Registry Search & Clean

This tool makes search for and deletion of, keys, values, and value content much easier.
It can be started from the ribbon in the **Tools** menu.

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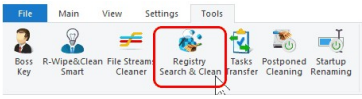
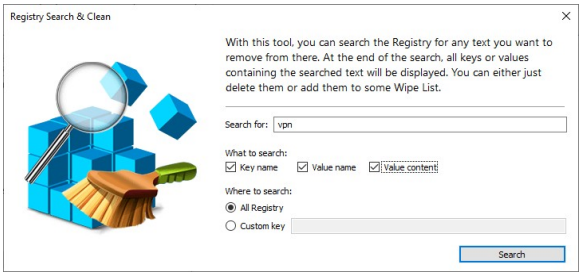
**Registry Search & Clean**




1 **Enter test to search for and click the Search button**

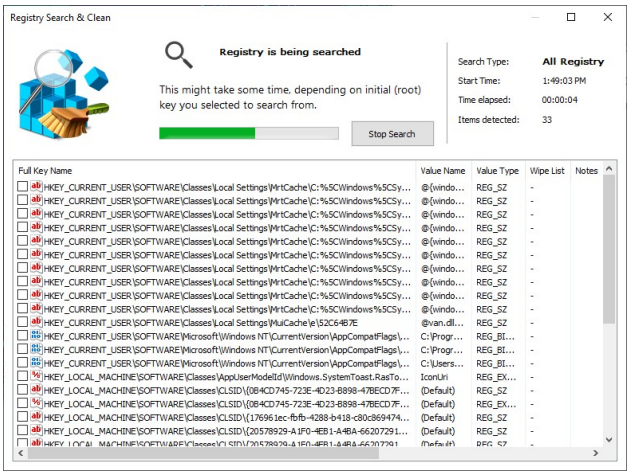
**Registry Search & Clean**




You may select places where to search for the text.

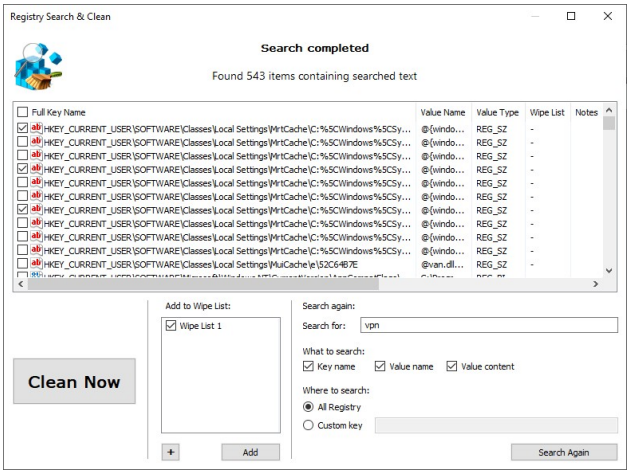
> **R-Wipe & Clean will start searching Registry showing its progress.**

**Registry Search & Clean**




2 **When the search is over, you may clean marked items, add them to a wipe list, or search for other items**

**Registry Search & Clean**

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## 2.7 Startup Renaming

**Note:** You should completely understand what are you doing when using **Startup Renaming**, or you may severely damage your system.

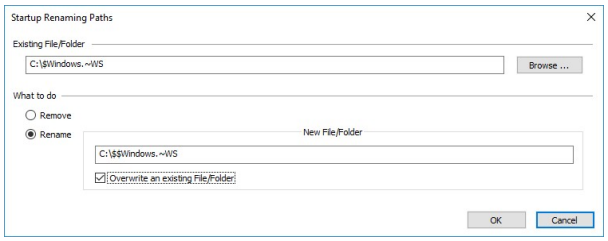
Sometimes you may want to delete or view a folder or files locked by Windows or some other program. **Startup Renaming** can help you to do that by renaming or deleting them during next startup. It also shows you a list of files and folders that will be renamed during the next startup. You may edit that list if necessary.

**Startup Renaming** can be invoked by selecting **Startup Renaming** on the **Tools** menu

### To add a folder or file to the Startup Renaming,

- Click **Add File or Folder** button on the **Startup Renaming** dialog box, select the required file(s)/folder(s) on the **Paths** dialog box, and click the **OK** button.

**Startup Renaming Paths dialog box**

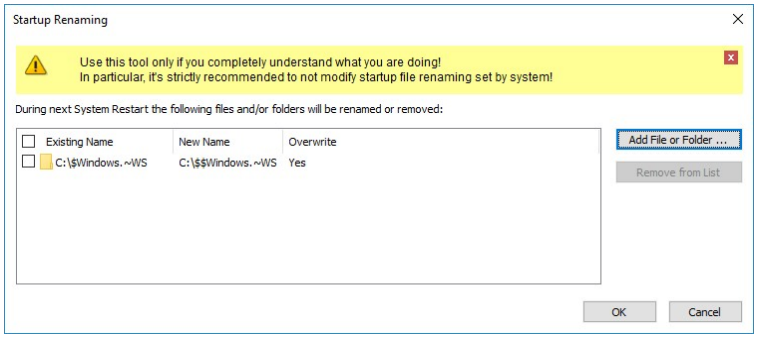



Select **Remove** to if you want to delete them or **Rename** if you want to rename them.

Select **Overwrite an existing Folder/File** if you want to overwrite an already existing file(s) or folder(s) with those that are to be renamed.

The selected file(s) and folder(s) will appear on the **Startup Renaming** dialog box.

**Startup Renaming dialog box**




### To edit a folder or file already added to the Startup Renaming,

- Select **Startup Renaming** on the **Tools** menu.
- Double-click the required file or folder and click the **Edit Paths** button.
- Edit the settings on the **Startup Renaming Paths** dialog box, and click the **OK** button.

### To remove a folder or file from the Startup Renaming,

- Select **Startup Renaming** on the **Tools** menu.
- Select the required file or folder and click the **Remove From List** button.

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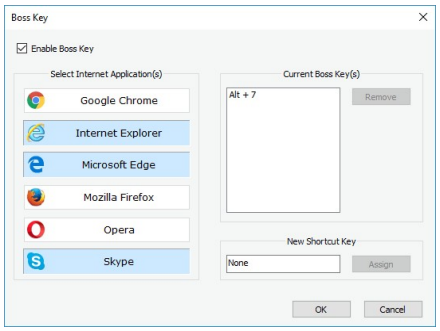
## 2.8 Boss Key

You can set one or several *Boss Key*s (keyboard shortcuts) that enable you to quickly close (stop) any, some, or all web browsers/applications on your system. When the **Boss Key** is enabled, every time you press the **Boss Key** combination on your keyboard the specified program will be immediately closed.

**To set a Boss Key,**

- Select **Boss Key** on the **Tools** menu.

**Boss Key dialog box**




- Select **Enable Boss Key** on the dialog box
- Select a browser(s)/program(s) you want to be able to close in the **Select an Internet Applications(s)** list.
- Enter a key combination from the keyboard, and click the **Assign** button.

The specified key combination will appear in the **Current Boss Key(s)** field.

- Click the **OK** button for the new settings to take effect.

**To add another Boss Key,**

- Select the **Press a New Shortcut Key** field, enter the key combination from the keyboard, and click the **OK** button.

The specified key combination will appear in the **Current Boss Key(s)** list.

- Click the **OK** button for the new settings to take effect.

**To remove a Boss Key,**

- Select the Boss Key in the **Current Boss Key(s)** field and click the **Remove** button.

The specified key combination will disappear from the **Current Boss Key(s)** list.

- Click the **OK** button for the new settings to take effect.

# III Touch Interface: Main Panel

**Note:** Some operations, such as wiping a file, wiping and deleting the contents of the Recycle Bin, or wiping free space on a single disk, can be performed directly from the shortcut menu without starting **R-Wipe & Clean**.

When **R-Wipe & Clean** starts, its main panel appears. You may customize **R-Wipe & Clean** to view only necessary items.

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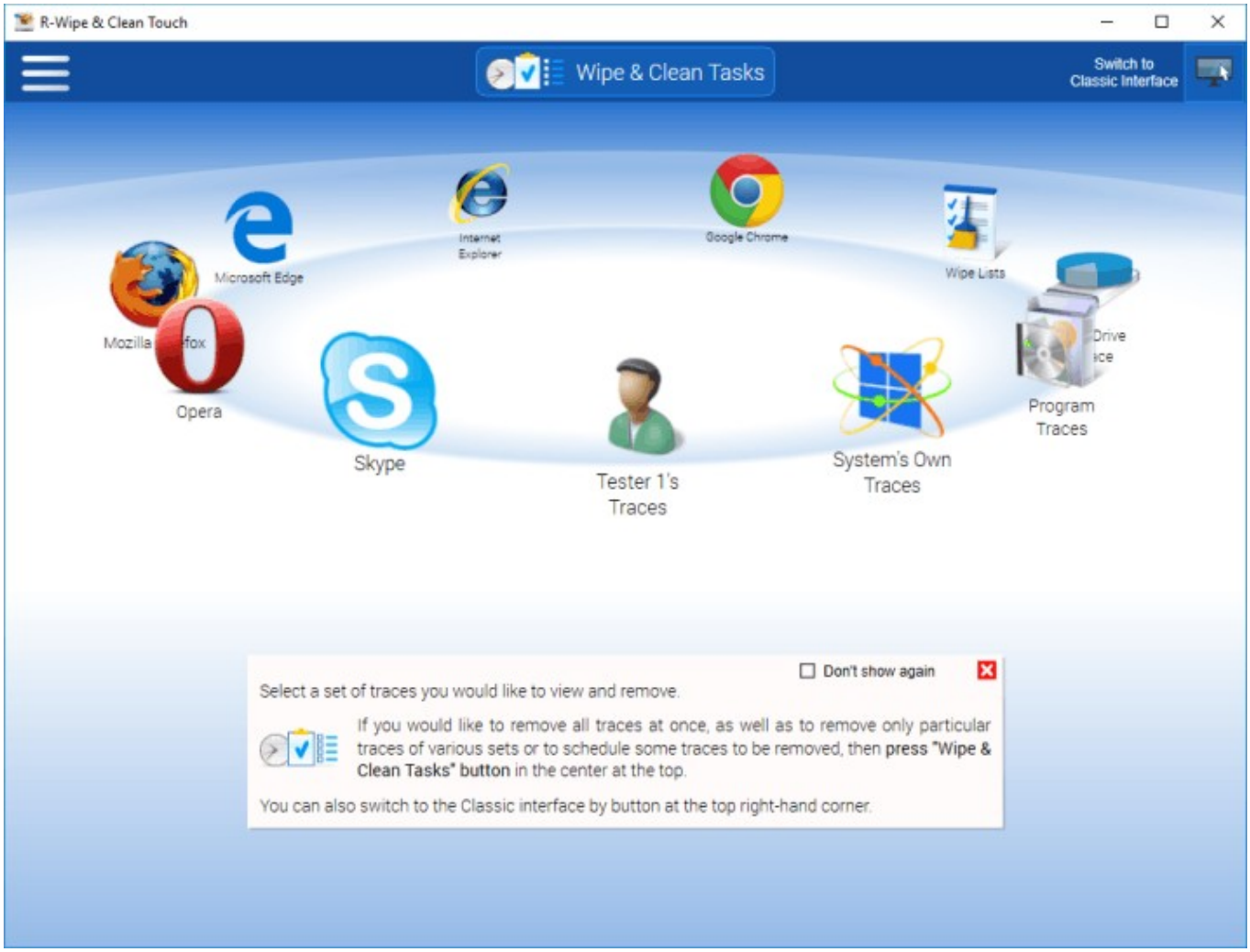
**R-Wipe & Clean's main panel**




***More information on the Main panel***

| | |
|---|---|
| Rotating Carousel | Swipe right/left it to go to the required item and tap to select it. |
| Control Panel | Settings: Select it to go to the Settings panel.<br>Log: Select it to view and save the Log file<br>Customize: Select it to customize **R-Wipe & Clean** |
| Wipe & Clean Task panel | Select it to go to the **Large Wipe and Clean Tasks** panel. |
| Switch to the Classic Interface | Select it to switche to the Classic interface |

***Wipe and Clean Tasks***

**How to:**

Clean your private information from your computer: **Cleaning a Computer**
Remove a single file directly from Files and Folders: **Wiping a File**.
Remove the contents of the **Recycle Bin**: **Wiping the Recycle Bin**.

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Remove several files in a single task: **Wipe Lists**.
Wipe free space on one disk: **Wiping Free Disk Space**.
Wipe several disks at once **Wiping Free Disk Space**.
Clean your computer, remove several files and folders, and wipe unused disk space simultaneously: **Setting a Large Wipe and Clean Task**

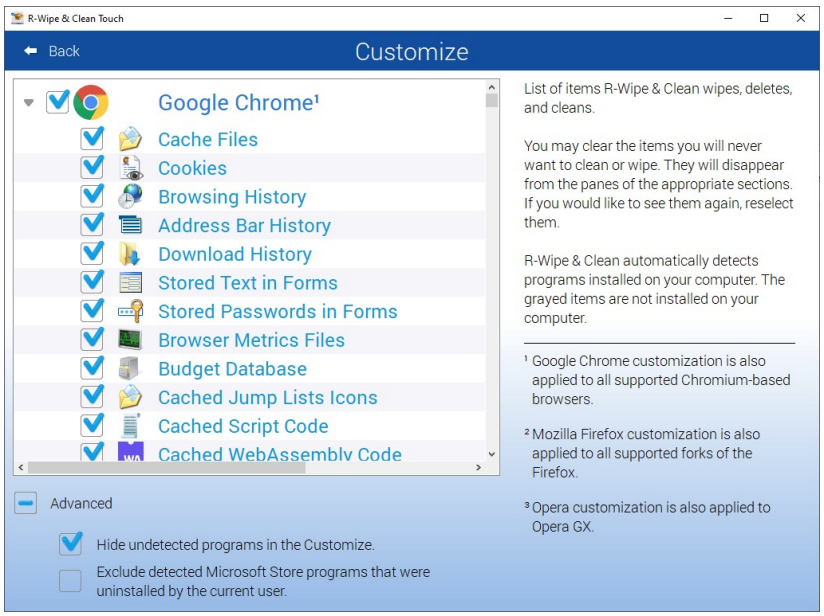
## 3.1 Customization

You may set on the **Customize** panel which items that **R-Wipe & Clean** removes or cleans will be visible on various item views and accessible to you.

You may clear the items you will never want to clean and they will disappear from all views. If you want to gain access to them again, select them once again.

You may reach the **Customize** panel on the **Main** menu.

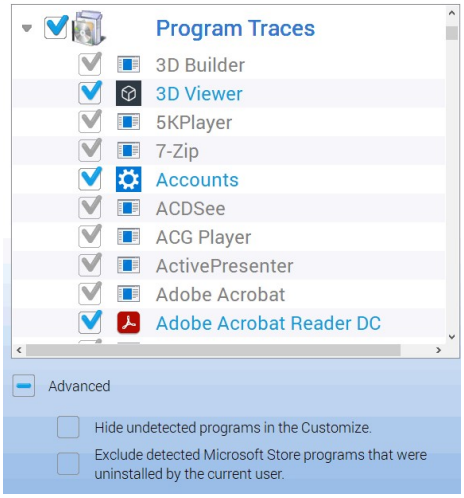
**Customize panel**



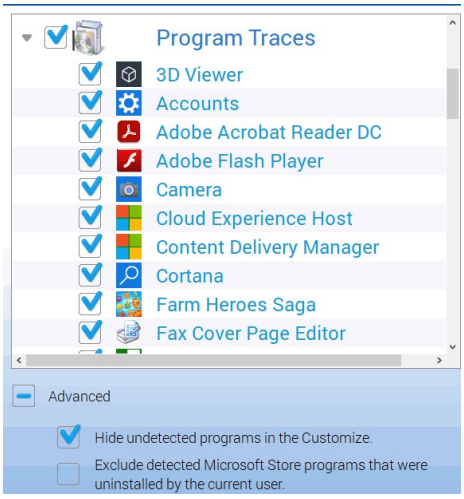

1. Google Chrome customization is also applied to all supported Chromium-based browsers.
2. Mozilla Firefox customization is also applied to all supported Firefox fork browsers.
3. Opera customization is also applied to Opera GX.

**R-Wipe & Clean** automatically detects programs installed on your computer. Items not installed are dimmed. You may hide then by selecting the **Hide undetected applications** option in the **Customize** panel.

**Undetected applications**




Undetected applications are shown




Undetected applications are hidden

You may also exclude games and applications from MS Store that have been uninstalled by the current user but still remain in the system.

## 3.2 Settings

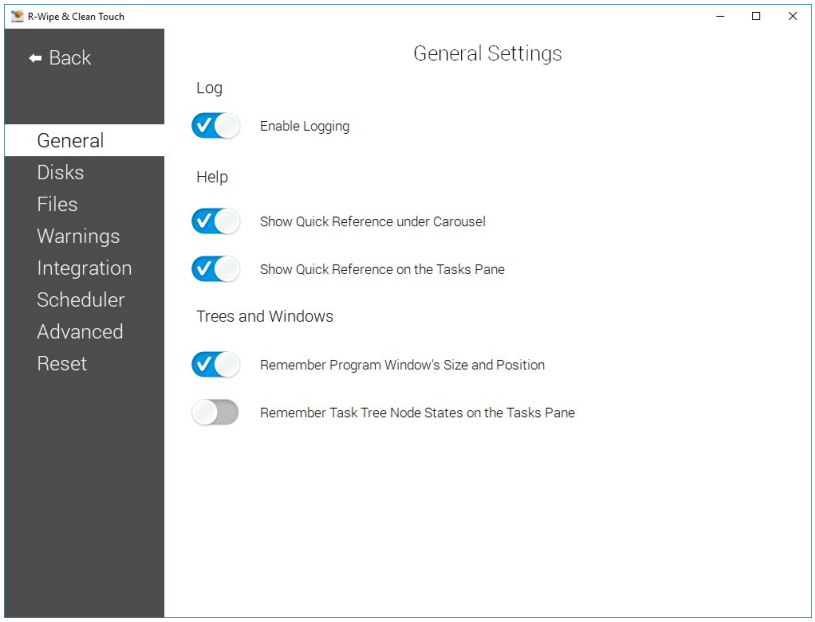
You may reach the **Settings** panel(s) from the **Settings** menu of the **Control Panel**.

### *Panels and Settings*

#### *General Settings*

You may set some default settings on how  shows some quick references on the **Main** panel and keeps states of various program windows and task items.

**General Settings panel**

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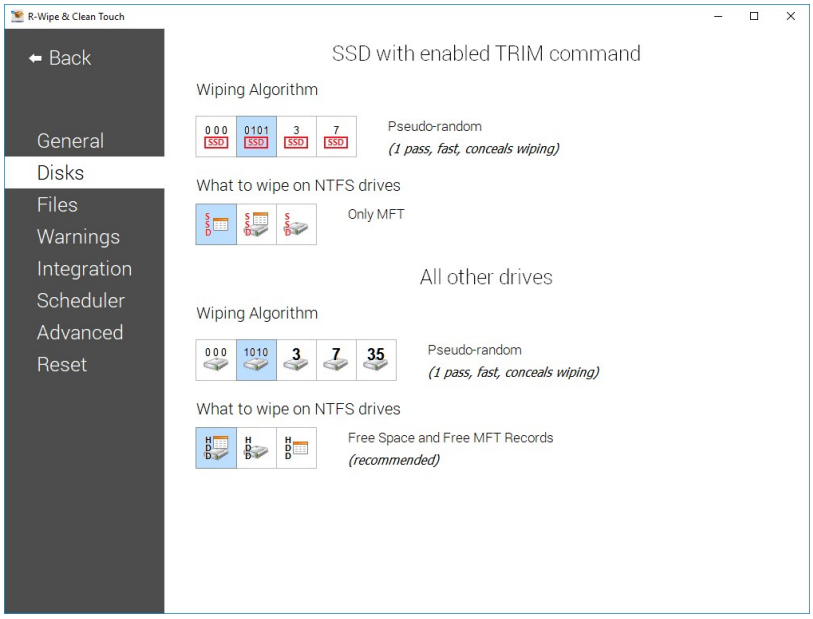
***Disks Settings***

You may set default wiping setting for free drive space on this tab.

**Note:** There are two separate free space wiping settings for regular hard drives and SSD devices. Read the File Erasure on SSD and HDD devices page for more details.

**Free Drive Space Wiping Settings panel**




***Free Drive Space Wiping Settings***

| | |
|---|---|
| Wiping algorithm | You may select a default algorithm for wiping disks. To learn more about wiping algorithms, go to **Wiping Algorithms**. |
| What to wipe on NTFS drives | • free MFT records only: If this option is selected, **R-Wipe & Clean** deletes records of small files which are stored directly in the NTFS Master File Table. It also removes the names of deleted files and folders that may be stored in the disk's MFT. This is important even for SSD devices.<br>• free space and free MFT records: If this option is selected, **R-Wipe & Clean** wipes drive's free space and deletes records of small files which are stored directly in the NTFS Master File Table. It also removes the names of deleted files and folders that may be stored in the disk's MFT.<br>• only free space: If this option is selected, **R-Wipe & Clean** only wipes drive's free space. |

.

***Files Settings***

You may set default wiping setting for separate files on this tab.

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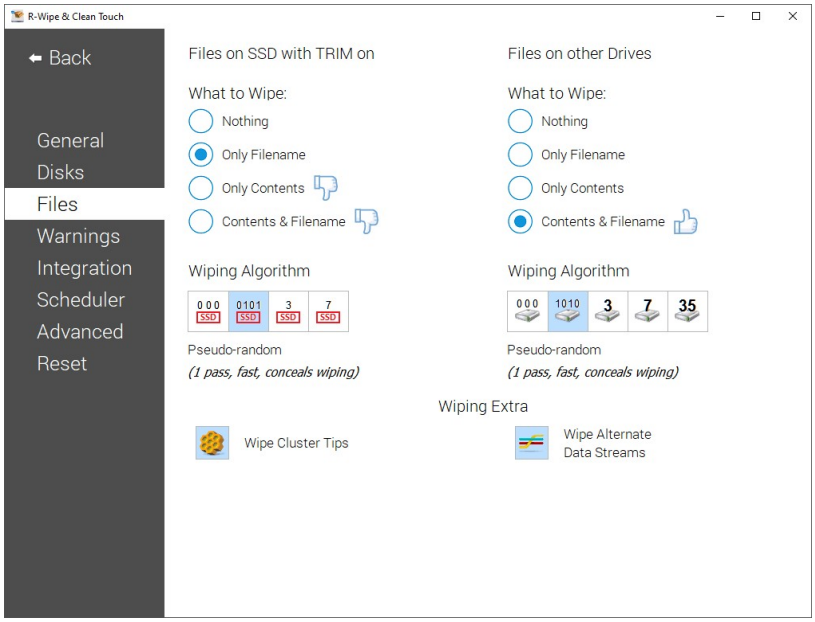
**Files Wiping Settings panel**




***Files Wiping Settings***

| | |
|---|---|
| Files on SSD with TRIM on | You may select what will be wiped on SSD devices with the enabled TRIM command.<br>**Note:** Content wiping is not recommended for TRIM-enabled SSD devices. Read the File Erasure on SSD and HDD devices page for more details. |
| Files on other Drives | You may select what will be wiped on conventional HDDs and SSDs with the disabled TRIM command. |
| What to wipe | You may specify how filest will be wiped. |
| Wiping algorithm | You may select a default algorithm for wiping disks. To learn more about wiping algorithms, go to **Wiping Algorithms**. |
| Wipe alternate data streams: | (Effective to the NTFS file system only). If this option is selected, **R-Wipe & Clean** wipes all streams associated with the file. |
| Wipe cluster tips | If this option is selected, **R-Wipe & Clean** also wipes free parts of file clusters. |

***Warnings Settings***

You may specify setting for displaying various warnings on this tab.

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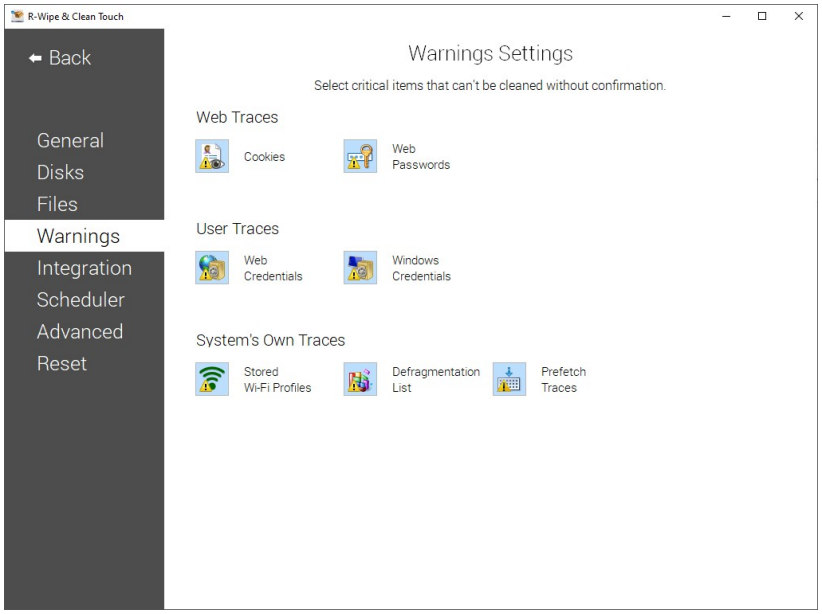
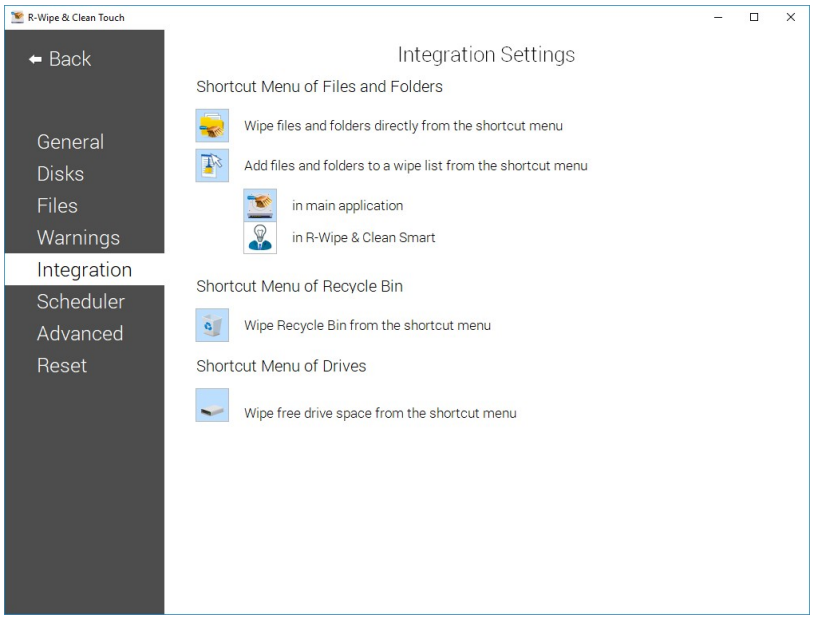
**Warnings Setings panel**




### *Integration Settings*

You may set options controlling the integration of **R-Wipe & Clean** into your system on this tab.

**Integration panel**




***Integration Settings***

| | |
|---|---|
| Shortcut Menu of Files and Folders | |
| Wipe files and folders directly from the shortcut menu | If this option is selected, the **Delete and Wipe** item will be added to the shortcut menu in Files and Folders. Using this item, you may delete and wipe files and folders directly from Files and Folders. |

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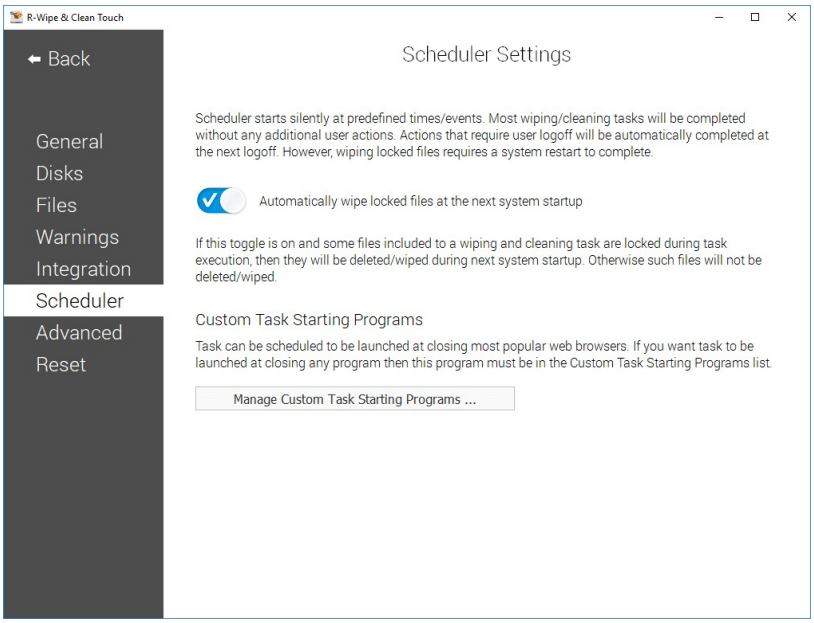
| | |
|---|---|
| Add files and folders into a wipe list | If this option is selected, the **Add to the Wipe List** item will be added to the shortcut menu in Files and Folders. Using this item, you may add files and folders to a wipe list directly from Files and Folders to the **R-Wipe & Clean** or to **R-Wipe & Clean Smart**. |
| Shortcut Menu of Recycle Bin | |
| Wipe Recycle Bin from the shortcut menu | If this option is selected, the **Wipe and Empty** item will be added to the shortcut menu in **the Recycle Bin**. Using this item, you may wipe files and folders directly from **the Recycle Bin**. |
| Shortcut Menu of Drives | |
| Wipe free space directly from the shortcut menu | If this option is selected, the **Wipe Free Space with R-Wipe & Clean** command will be added to the shortcut menu of every logical disk. Using this item, you may wipe free disk space from the shortcut menu. |

### *Scheduler Settings*

You may set an option controlling the execution of large wipe and clean tasks.

**Tasks panel**




***Scheduler Settings***

| | |
|---|---|
| Automatically wipe locked files at the next system startup | If this option is selected, **R-Wipe & Clean** will wipe locked files at the next system startup. |
| Manage Custom Task Starting Programs... | You may add up to 5 programs which closing will run a scheduled task if this is specified on Scheduler. |

### *Advanced Settings*

You may set some advanced options on the **Advanced** tab of the **Settings** panel.

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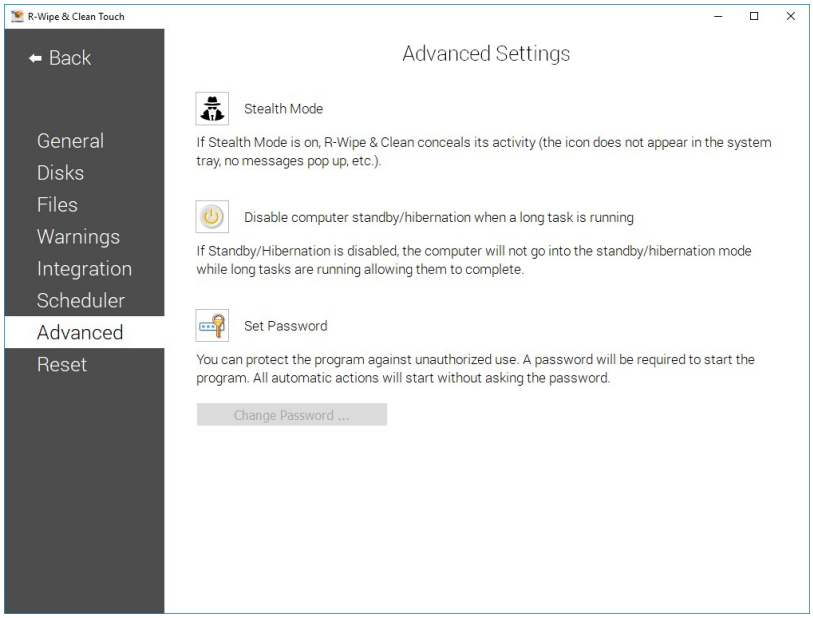
**Advanced panel**




***Advanced Settings***

| | |
|---|---|
| Stealth mode | If this option is selected, **R-Wipe & Clean** conceals its activity. Its icon does not appear in the system tray, no messages pop up, etc. |
| Disable computer standby/hibernation when a long task is running | If this option is selected, your computer will not go into the standby/hibernation mode while long tasks are running allowing them to complete. |
| Set Password | You may protect the program against unauthorized use. If this option is selected, a password will be required to start **R-Wipe & Clean**. All automatic actions will start without asking the password. |

### *Resetting to Defaults*

If necessary, you may reset to defaults all or individual settings on the **Reset Settings** panel.

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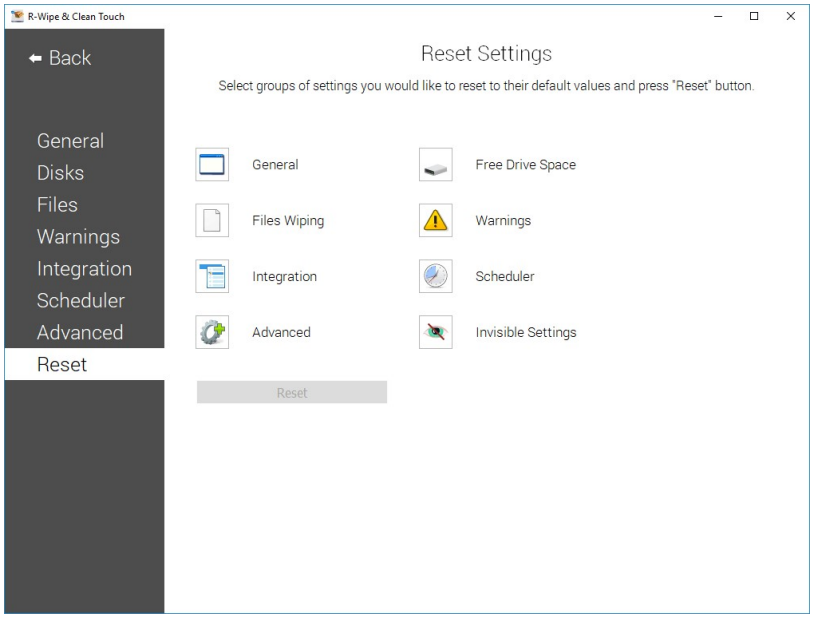
**Reset Settings panel**

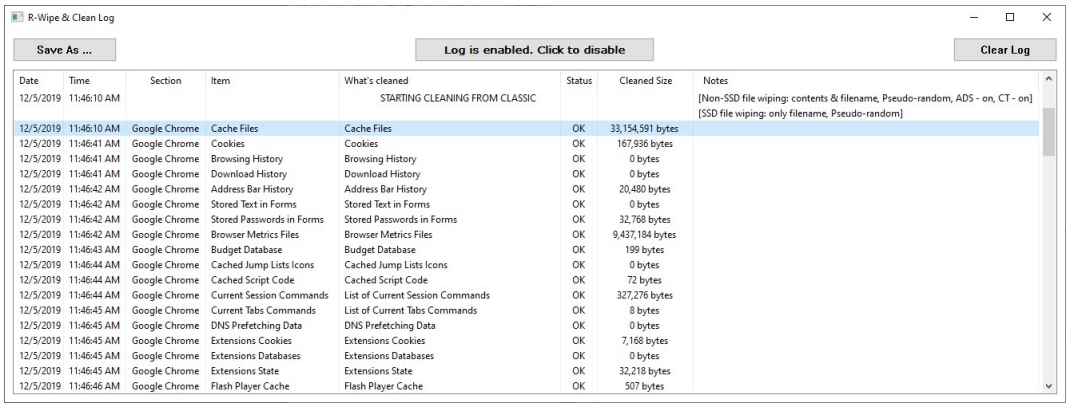



## 3.3 Logging

You may specify log setting and view the log on the **Log** panel. You may reach this panel by either selecting **Log** on the **Control Panel** from the **Main** panel or by clicking the **View Log** button on various tabs.

The Note column shows the current wiping settings for the SSD disks with TRIM enabled and other disks.

**Log panel**




| Date | Time | Section | Item | What's cleaned | Status | Cleaned Size | Notes |
|---|---|---|---|---|---|---|---|
| 12/5/2019 | 11:46:10 AM | | | STARTING CLEANING FROM CLASSIC | | | [Non-SSD file wiping: contents & filename, Pseudo-random, ADS - on, CT - on] [SSD file wiping: only filename, Pseudo-random] |
| 12/5/2019 | 11:46:10 AM | Google Chrome | Cache Files | Cache Files | OK | 33,154,591 bytes | |
| 12/5/2019 | 11:46:41 AM | Google Chrome | Cookies | Cookies | OK | 167,936 bytes | |
| 12/5/2019 | 11:46:41 AM | Google Chrome | Browsing History | Browsing History | OK | 0 bytes | |
| 12/5/2019 | 11:46:41 AM | Google Chrome | Download History | Download History | OK | 0 bytes | |
| 12/5/2019 | 11:46:42 AM | Google Chrome | Address Bar History | Address Bar History | OK | 20,480 bytes | |
| 12/5/2019 | 11:46:42 AM | Google Chrome | Stored Text in Forms | Stored Text in Forms | OK | 0 bytes | |
| 12/5/2019 | 11:46:42 AM | Google Chrome | Stored Passwords in Forms | Stored Passwords in Forms | OK | 32,768 bytes | |
| 12/5/2019 | 11:46:42 AM | Google Chrome | Browser Metrics Files | Browser Metrics Files | OK | 9,437,184 bytes | |
| 12/5/2019 | 11:46:43 AM | Google Chrome | Budget Database | Budget Database | OK | 199 bytes | |
| 12/5/2019 | 11:46:44 AM | Google Chrome | Cached Jump Lists Icons | Cached Jump Lists Icons | OK | 0 bytes | |
| 12/5/2019 | 11:46:44 AM | Google Chrome | Cached Script Code | Cached Script Code | OK | 72 bytes | |
| 12/5/2019 | 11:46:44 AM | Google Chrome | Current Session Commands | List of Current Session Commands | OK | 327,276 bytes | |
| 12/5/2019 | 11:46:45 AM | Google Chrome | Current Tabs Commands | List of Current Tabs Commands | OK | 8 bytes | |
| 12/5/2019 | 11:46:45 AM | Google Chrome | DNS Prefetching Data | DNS Prefetching Data | OK | 0 bytes | |
| 12/5/2019 | 11:46:45 AM | Google Chrome | Extensions Cookies | Extensions Cookies | OK | 7,168 bytes | |
| 12/5/2019 | 11:46:45 AM | Google Chrome | Extensions Databases | Extensions Databases | OK | 0 bytes | |
| 12/5/2019 | 11:46:45 AM | Google Chrome | Extensions State | Extensions State | OK | 32,218 bytes | |
| 12/5/2019 | 11:46:46 AM | Google Chrome | Flash Player Cache | Flash Player Cache | OK | 507 bytes | |

ADS: wiping of Alternative Data Streams.

CT: wiping of Cluster Tips.

You may enable/disable log, save and clear it.

## 3.4 Wiping and Cleaning

It is incredible how much your personal information may be found in your computer. Actually, your PC is the best spy on you. It is constantly logging, quietly and accurately, each program you started, document you opened, music or movie you played, each web site you visited, even each printer or other peripheral device you attached. Moreover, it also constantly makes "temporary" copies of any opened file, and not always it erases them when you are through with that file. Contents of deleted files remain on hard drives and can be easily brought back

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using inexpensive and easily available data recovery utilities. Anyone who can snoop into your computer could make quite an exact profile of you. Such snooping can be made even remotely when you are on the Internet.

**Note:** Files deleted on SSD devices usually cannot be recovered even if they've not been wiped. Read File Erasure on SSD and HDD devices page for details.

To make the things worse, there is no built-in system routines that might clean all those records and links. On the contrary, Windows does everything possible to keep all that data as long as possible. That is why you need to use **R-Wipe & Clean** to protect yourself from such snooping.

- **File Erasure on SSD and HDD devices**
- **Wiping Algorithms**
- **Wiping**
- **Cleaning a Computer**

### 3.4.1 Wiping

**Attention! Wiping files or free disk space on SSD devices is not possible in most cases. Read the File Erasure on SSD and HDD devices page for details.**

**R-Wipe & Clean** disables wiping files and free disk space on such devices by default. You may enable it, but you should understand what you are doing.

***Wiping files***

Simply deleting a file does not mean that the data of this file are gone for good. When you delete a file, even when the **Recycle Bin** is disabled, Windows writes some information on the disk that this particular file should be treated as unneeded, and its space may be allocated for other file. Until data from the next file are written over the deleted one, the deleted data may be easily recovered using inexpensive and easily available data recovery utilities. To completely destroy the data, it must be overwritten, sometimes not once. Such process is called *wiping*. **R-Wipe & Clean** wipes files, making their recovery virtually impossible. It also wipes stored names of deleted files, file's alternate data streams, cluster tips, and records of small files stored directly into NTFS Master Table.

You may wipe a single file selecting **Delete and wipe** on the Files and Folders shortcut menu, or several files and folders on the **Wipe Lists** panel.

The default file wiping settings may be set on the **Files Wiping Settings** tab of the **Settings** panel.

***Wiping free disk space***

Even if you have removed all deleted files, that does not mean that no data from them remain on your hard drive. If you have rewritten your files many times, for example, while editing, some previous copies of the files may still remain on the disk without a slightest notice of their existence. Also, Windows constantly writes and deletes its own temporary files on disks. Such files are not visible to users, but may contain some data from your own files and programs. Such pieces of your data still remain even after you format the disk. There are special data recover utilities that analyze unused space on disks and can restore many files that you believe to be completely wiped and deleted. **R-Wipe & Clean** wipes unused disk space, making such analysis of disk space useless.

You may wipe unused disk space on a single disk using the Wipe Free Space with R-Wipe & Clean command on the disk's shortcut menu, or on several disks at once on the **Free Drive Space** panel.

The default free disk space wiping settings may be set on the **Free Drive Space Settings** tab of the **Settings** panel.

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#### 3.4.1.1 Wiping Files

**Attention! Wiping files on SSD devices is not possible in most cases. Read the File Erasure on SSD and HDD devices page for details.**
**Once wiped, a file cannot be restored! No Windows or third-party data recovery utility can do this!**

**R-Wipe & Clean** deletes rather than wipes files if the **Wipe files before deleting** option on the **Settings** panel is disabled. Wiping files is disabled on SSD devices by default. You may enable it, but you should understand what you are doing.

### *Wiping a Single File*

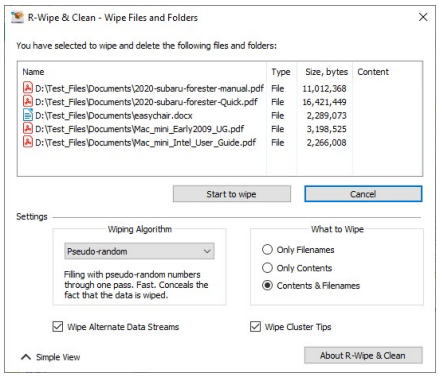
You do not have to start **R-Wipe & Clean** to wipe and delete a single file or several files. You may do this from **File Explorer**. Make sure that you have the **Wipe files and folders directly from the shortcut menu** option selected on the **Integration** tab of the **Settings** panel.

**To wipe a file or several files,**

- Select and right-click the file(s) in **Files and Folders** and select **Wipe and Delete with R-Wipe & Clean** on the shortcut menu.

The **Wipe Files and Folders** dialog box will appear.

**Wipe Files and Folders dialog box**




- Click the **Start to wipe** button, and **R-Wipe & Clean** will wipe the file(s) with default wiping settings.

If you want to change the wiping settings for this file, click the **Advanced View** button

### *Wiping Several Files and Folders at Once*

If you want to delete and wipe several files at once, go to the **Wipe Lists** section for details.

### *Wiping the Recycle Bin*

You do not have to start **R-Wipe & Clean** to wipe the contents of the **Recycle Bin**. You may do this from its shortcut menu. Make sure that the **Wipe the Recycle Bin from the shortcut menu** option on the **Integration** tab of the **Settings** panel is selected.

**To wipe the contents of the Recycle Bin,**

- Right-click the **Recycle Bin** and select **Wipe with R-Wipe & Clean** on the shortcut menu.

The **Wipe Recycle Bin contents** dialog box will appear.

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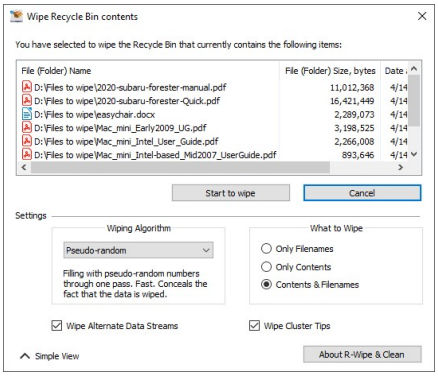
**Wipe Recycle Bin contents dialog box**




- Click the**Start to wipe** button, and **R-Wipe & Clean** will wipe the **Recycle Bin** with default wiping settings.

If you want to change the wiping settings for this file, click the **Advanced View** button

Default file wiping settings may be specifically set on the **Files Wiping Settings** tab of the **Settings** panel.

#### 3.4.1.2 Wipe Lists

You may specify files and folders, and registry keys or key values that will be wiped and deleted through a single wipe and delete task on the **Wipe Lists** panel. Moreover, you may store such ***wipe lists*** to retrieve them and wipe later. You may also include wipe lists into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

Some programs have their own temporary or scratch folders. It is wise to have them included in such wipe lists if you want to completely erase all temporary data from such programs.

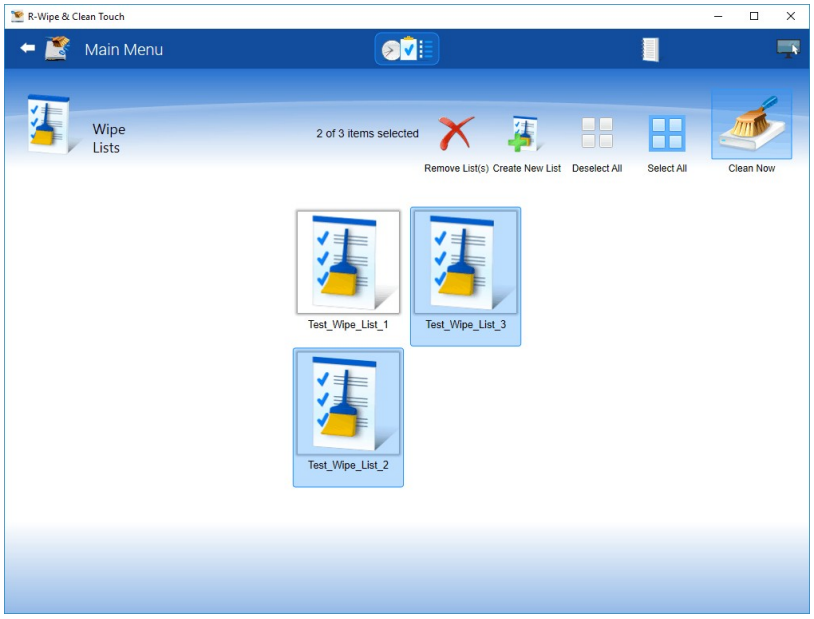
**Attention! Once wiped, a file cannot be restored! No Windows or third-party data recovery utility can do this!**

***Wiping wipe lists***

**To wipe one or several wipe lists ,**

- Select the **Wipe Lists** item.
- Select the required wipe list(s) and tap the **Clean Now** button.

**Wipe Lists** panel




**R-Wipe & Clean** will start cleaning the contents of the wipe list(s).

### *Managing wipe lists*

You may also manage wipe lists form the tab of a single wipe list using the **wipe list management** buttons.

⊞ ***More information...***

| | |
|---|---|
| **To create a new wipe list,**<br>• Select the **Wipe Lists** item.<br>• Tap the **Create New List** button.<br>A new wipe list will appear. | **To remove a wipe list,**<br>• Select the **Wipe Lists** item.<br>• Select the required list(s) and tap the **Remove List(s)** button.<br>**R-Wipe & Clean** will remove the wipe list(s). |
| **To rename a wipe list,**<br>• Select the **Wipe Lists** item.<br>• Double-tap the required **Wipe List**.<br>• Tap the **Rename List** button on the **wipe list management** buttons and enter a new name.. | **To view and edit the contents of a wipe list,**<br>• Double-tap the required wipe list.<br>• **R-Wipe & Clean** will show the content. |

### *Managing files/folders in wipe lists*

You may add a file or/and folder to the current wipe list directly from File Explorer. Long-tap the file and select the **Add to the Wipe List** item from the shortcut menu. Make sure that the **Add files and folders to a wipe list from the shortcut menu** option is enabled on the **Integration** tab of the **Settings** panel.

You may add/remove files and folders to/from the list using the **file management** buttons.

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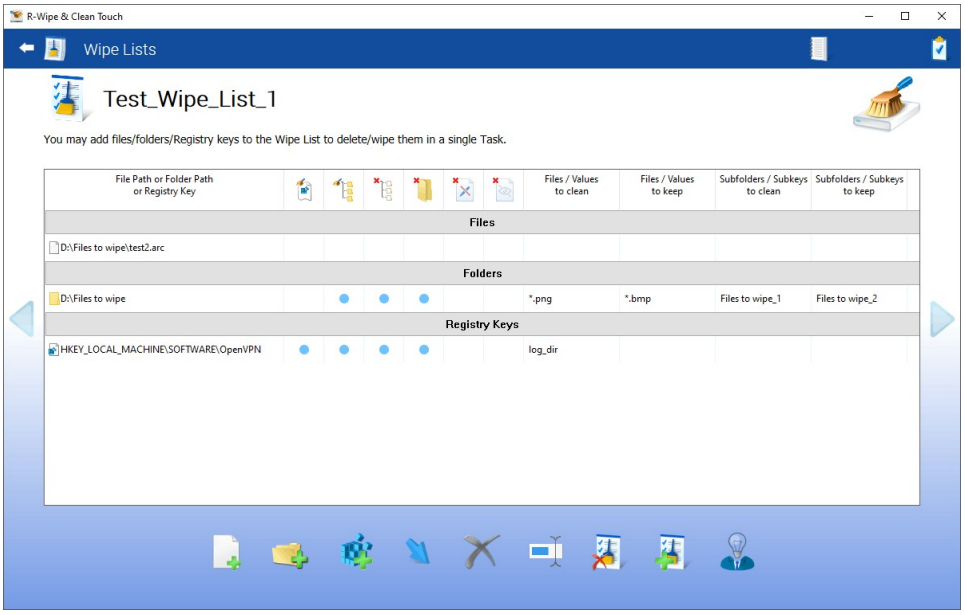
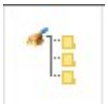
**Wipe List panel**




***Item Cleaning Icons***

| | |
|---|---|
| | Registry key: The value will be cleaned. |
|  | Clean subfolders: All child subfolders will be cleaned recursively. |
| | Delete empty subfolders: All empty subfolders will be deleted. |
| | Delete folder: A folder or key will be deleted if it becomes empty. |
| | Delete read-only files |
| | Delete hidden files |

When you add a folder to the wipe list, the **Add folder...** dialog box will appear. You may set a file mask for files in the folder and specify files that are not to be cleaned if they even match the file masks.

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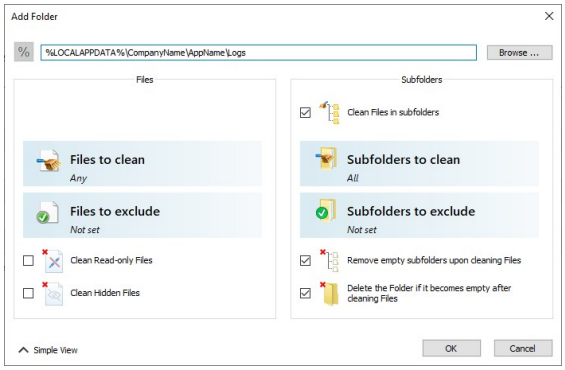
**Add folder... dialog box**



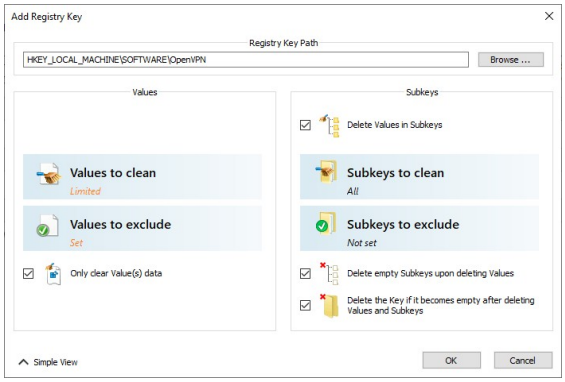

***Add folder options***

| | |
|---|---|
| % | Adds an environment variable. |
| Files to clean | Specifies file masks to clean files in this folder. |
| Files to exclude | Specifies file masks to exclude files from cleaning in this folder |
| Subfolders to clean | Specifies subfolders to clean in this folder. |
| Subfolders to exclude | Specifies subfolders to exclude from cleaning in this folder. |
| Clean files in subfolders | If this option is selected, files in subfolders will be cleaned. |
| Remove empty subfolders upon cleaning files | If this option is selected, the folders will be deleted when its content is cleaned. |
| Delete the folder if it becomes empty after cleaning files | If this option is selected, the folder will be deleted if it becomes empty after cleaning files in it. |
| Clean Read-only Files | If this option is selected, read-only files will be cleaned, too. |
| Clean Hidden Files | If this option is selected, hidden files will be cleaned, too. |

## *Managing Registry keys in wipe lists*

You may also add a key or specific value in a key from Registry that will be deleted.

**Add Registry Keys/Values dialog box**




***More information...***

| | |
|---|---|
| **To add a registry key or key values to a wipe list,**<br>• Double-tap the required wipe list | **To remove a registry key or key values from a wipe list,**<br>• Double-tap the required wipe list |

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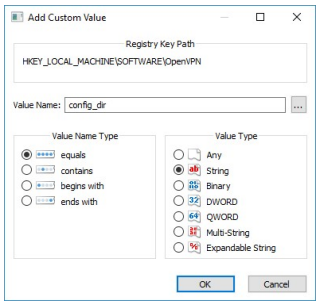
| | |
|---|---|
| • Tap the **Add Registry Key to Wipe List** button on the **file management** buttons and select the required Registry key or separate key value on the **Add Registry Key** dialog box to add them to the wipe list.<br>You may add either all values in the selected key, or only specific values in it.<br>The added Registry keys or values will appear in the wipe list.<br>You may also add arbitrary custom values. Click the Add Custom Value button and specify the required values.<br>**Add Custom Value dialog box**<br>  | • Select a registry key or key values you want to remove and tap the **Remove from Wipe List** button on the **file management** buttons.<br>The selected registry key or key values will be removed from the list. |

You may also import items from other wipe lists using the **Import** button on the **file management** buttons

Default file wiping settings may be specifically set on the **Files Wiping Settings** tab of the **Settings** panel.

#### 3.4.1.3 Wiping Free Disk Space

**Attention! Wiping free disk space for SSD devices is not required in most cases. Read the File Erasure on SSD and HDD devices page for details.**

**R-Wipe & Clean** disables wiping free disk space on such devices by default. You may enable it, but you should understand what you are doing. The only important part that should be cleaned even on an SSD device is MFT on NTFS disks. The best wiping algorithms for that are zeros or pseudo-random numbers.

Disk data you can wipe depends on your user account type and Windows version.

***Data that can be wiped:***

| | | System Disk | | Non-System Disk | |
|---|---|---|---|---|---|
| | | **Free space** | **MFT** | **Free space** | **MFT** |
| **Windows 10** | **Administrator** | Yes | Yes | Yes | Yes |
| | **User (Standard Account)** | Yes | No | Yes | Yes |
| | **Guest** | No | No | No | No |
| **Windows 8/8.1** | **Administrator** | Yes | Yes | Yes | Yes |
| | **User (Standard Account)** | Yes | No | Yes | Yes |
| | **Guest** | No | No | No | No |

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| | | | | | |
|---|---|---|---|---|---|
| **Windows 7** | **Administrator** | Yes | Yes | Yes | Yes |
| | **User (Standard User)** | Yes | No | Yes | Yes |
| | **Guest** | No | No | No | No |

**Attention! When a disk is wiped, all previously deleted files cannot be restored! No Windows or third-party data recovery utility can do this!**

### *Wiping free disk space on a single disk*

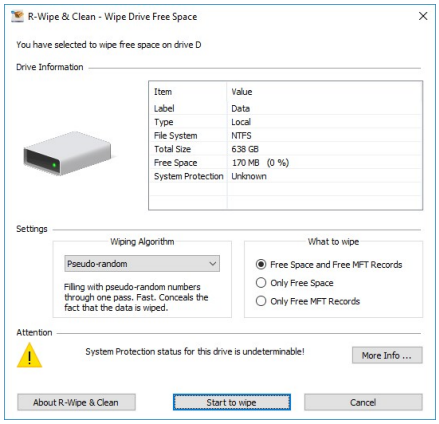
You do not have to start **R-Wipe & Clean** to wipe unused space on a single disk. You may do this from **File Explorer**. Make sure that the **Wipe free space directly from the shortcut** menu option is selected on the **Integration** tab of the **Settings** panel.

**To wipe unused disk space on a single disk,**

- Long tap the disk in **File Explorer**, and select **Wipe free space with R-Wipe & Clean** on the menu.

The **R-Wipe & Clean** tab will appear.

**R-Wipe & Clean** tab




- Select the wiping settings for this disk and tap the **Wipe now** button.

**R-Wipe & Clean** will start wiping the disk, and the **Wiping** dialog box will appear showing the wiping progress. When **R-Wipe & Clean** finishes wiping, the **Report** dialog box will appear.

### *Wiping free disk space on several disks*

**To wipe unused disk space on several disks,**

- Select **Free Drive Space**

The **Free Drive Space** panel will appear.

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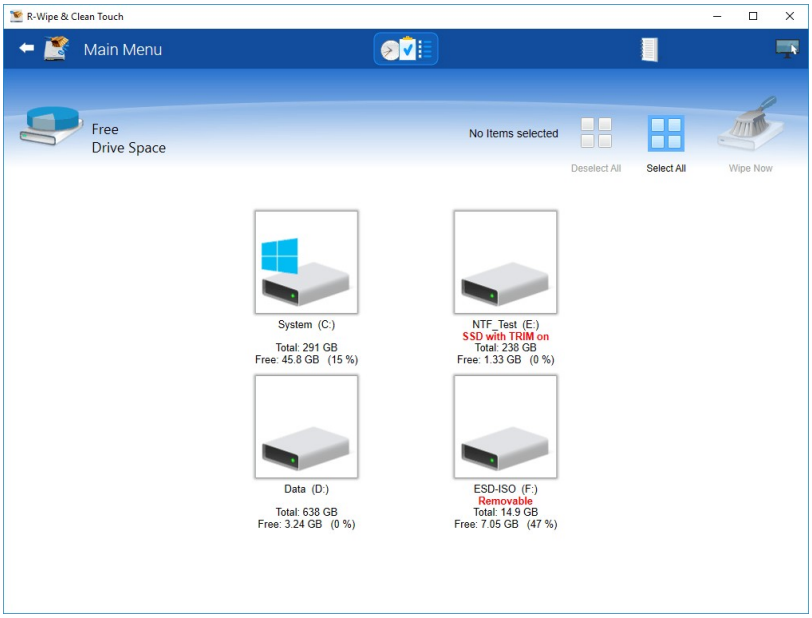
**Free Drive Space panel**




- Select the disks you want to wipe.
- If necessary, change the wiping settings, and tap the **Wipe Now** button. Default disk wiping settings may be set on the **Free Drive Space Wiping Settings** tab of the **Settings** panel. To learn more about wiping algorithms, go to the **Wiping Algorithms** page.

**R-Wipe & Clean** will start wiping the disk, and the **Wiping** dialog box will appear showing the wiping progress. When **R-Wipe & Clean** finishes wiping, the **Report** dialog box will appear.

You may interrupt wiping. Tap the **Stop** button. Wiping will be stopped, and the **Report** dialog box will appear, showing how much of unused space has been wiped.

Disk wiping may be included into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

**Note!** Removable storage devices cannot be included into a large wipe and clean task.

### 3.4.2 Cleaning a Computer

Your computer stores very many traces of your activity like links to visited web sites or recently opened documents. It also keeps contents, such as pictures, texts, flash movies, audio files from visited web pages. Any snooper who has access to this information can easily tell where and when you have been, or how long you have been on a certain web site. Deleting caches and histories will not help, as Windows stores such information in many, and not easily accessible, places. **R-Wipe & Clean** unrecoverably deletes such information and files.

All traces are divided into the following sections:

- On-line Activity:
- Personal data
- System's Own traces:
- Program Traces

Default cleaning settings may be specifically set on the **Files Wiping Settings** tab of the **Settings** panel.

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#### 3.4.2.1 Cleaning Internet Activity

You may clean your computer from many traces and links from your Internet activity that your computer stores in many places. You may include Internet activity cleaning into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

**R-Wipe & Clean** automatically detects most popular web browsers and shows them in its views. The list of items visible on each browser's panel can be edited on the **Customize** panel.

***Items that can be cleaned in various browsers and communication programs***

| Browser | Items that can be cleaned |
|---|---|
| **Internet Explorer** | • Temporary Internet Files<br>• Cookies<br>• History<br>• Download History<br>• Typed URLs<br>• Form Data<br>• DOM files<br>• Extensions Statistics<br>• Stored Favorites Order |
| **Microsoft Edge (Windows 10)** | • Cache Files<br>• Browsing Data<br>• Typed URLs<br>• Application Cache<br>• Cached Certificates<br>• DOM Storage<br>• Internal Databases<br>• Stored Website Favicons<br>• Stored Recovery Information<br>• Temporary Files |
| **Microsoft Edge (Google Chrome-based)** | • Cache files<br>• Cookies<br>• Browsing History<br>• Download History<br>• Address Bar History<br>• Stored Text in Forms<br>• Stored Passwords in Forums<br>• Browser Metrics Files<br>• Budget Database<br>• Cached Jump Lists Icons<br>• Cached Script Code<br>• Cached WebAssembly Code<br>• Crash Reports<br>• Data Reduction Statistics<br>• Extension Databases |

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| | |
|---|---|
| | • Extensions State<br>• GPU Cache<br>• Heavy Ad Intervention Statistics<br>• Invalid Certificates<br>• Language Statistics<br>• Media Engagement Statistics<br>• Media Playback History<br>• Microphone Usage Statistics<br>• Most Visited Sites Data<br>• Network Persistence Statistics<br>• Permission Notification History<br>• Prerendering Data<br>• Quota Manager Data<br>• Rollback Journals<br>• Search Engines Data<br>• Search History<br>• Server Worker Cache<br>• Session Databases<br>• Setup Metrics Files<br>• Site Engagement Statistics<br>• Stored Banner Information<br>• Stored Favicons<br>• Stored Help Session Time<br>• Stored Local FS Access Info<br>• Stored Location Permissions<br>• Stored NEL Data<br>• Stored Push Notifications<br>• Stored Services Network Traffic<br>• Stored Session Commands<br>• Stored Tabs Command<br>• Stored Translation Parameters<br>• Stored Website Permissions<br>• Stored Zoom Data<br>• Sync Logs<br>• Tracking Preventions Data<br>• Tracking Relationship Data<br>• Update Files<br>• Update Logs<br>• Web Application Daily Metrics<br>• Web Apps File System's Files<br>• Webcam Usage Statistics<br>• WebRTC Logs |

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| | |
|---|---|
| | • Website Loading Statistics<br>• Browsing Data<br>• Cached Files<br>• Typed URLs<br>• Application Cache<br>• Cashed Certificates<br>• DOM Storage<br>• Internal Databases<br>• Stored Website Favicons<br>• Stored Recovery Information<br>• Temporary Files<br>• Session Event Log<br>• Stored Usage Statistics<br>• Website Redirecting Statistics<br>• Installer Files<br>• Site Characteristics Database<br>• Stored Printing Information<br>• Web Engine Navigation History<br>• Stored Profiles in Forms<br>• Allowed Web Launch Apps Data<br>• Website Databases<br>• Stored Form Filling Metadata<br>• Developer Tools Recent Files<br>• Stored Web App Commands<br>• Stored Client Hints<br>• Manager Diagnostics Log<br>• Stored Assistance Data<br>• LevelDB Databases<br>• Stored PDF View Info<br>• SmartScreen Download Data<br>• SmartScreen URI Data<br>• Stored Bounce Tracking Data<br>• CRX Package Cache<br>• MAM Log<br>• Stored Media Devices Salts<br>• Databases Old Logs<br>• Stored Cookie Controls Metadata<br>• Stored Popups Data<br>• Stored Coupons<br>• HTTP Allowed Sites Info<br>• Form Fields Filling History<br>• 3PCD Heuristics Grants |

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| | |
|---|---|
| | • Web Storage<br>• Hub App Usage Data<br>• 3PCD Support Info<br>• Wallet Log<br>• Shared Dictionary Cache<br>• Shared Storage |
| **Mozilla Firefox**<br>Lunascape<br>Waterfox<br>Basilisk<br>Comodo IceDragon<br>Pale Moon | • Cached Files<br>• Cookies<br>• Browsing History<br>• Download History<br>• Stored Text in Forms<br>• Stored Passwords<br>• Cached Jump Lists Icons<br>• Crash Minidump Files<br>• Crash Reports<br>• DOM Storage<br>• FHR Performance Measures<br>• Indexed Databases<br>• Stored Favicons<br>• Stored HSTS Cookies<br>• Stored Installation Timestamps<br>• Stored Session Information<br>• Stored Timestamps<br>• Stored Webpage Thumbnails<br>• Telemetry Reports<br>• Update Logs<br>• Overridden Certificates<br>• Stored Push Notifications<br>• Mozilla Maintenance Service Logs<br>• Storage Usage Statistics<br>• Enhanced Tracking Protection Statistics<br>• Registered Service Workers<br>• Stored Frecency<br>• Stored Website Permissions<br>• Stored Website Preferences<br>• Sync Event Log<br>• Stored Usage Statistics<br>• Used Devices<br>• WebRenderer Shader Cache<br>• Stored Alternative Services Data<br>• Stored App Handling<br>• Settings Sync History |

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| | |
|---|---|
| | • Update Trash<br>• Stored Glean Metrics<br>• Top Frecent Websites<br>• Stored Recovery Data<br>• Stored BgTasks HSTS Cookies<br>• Bounce Tracking Protection Data<br>• Rollback Journals |
| **Opera**<br>**Opera GX** | • Cached Files<br>• Cookies<br>• Browsing History<br>• Download History<br>• Stored Text in Forms<br>• Stored Passwords<br>• Cached Jump Lists Icons<br>• Cached Script Code<br>• Extensions Databases<br>• Media Engagement Statistics<br>• Network Persistence Statistics<br>• Prerendering Data<br>• Quota Manager Data<br>• Rollback Journals<br>• Service Worker Cache<br>• Site Engagement Statistics<br>• Stored Favicons<br>• Stored Website Permissions<br>• AutoUpdate Log<br>• Stored Zoom Data<br>• Backup Files<br>• Bookmarks Trash<br>• Cached WebAssembly Code<br>• Debug Logs<br>• GPU Cache<br>• Media Playback History<br>• Microphone Usage Statistics<br>• Permission Notification History<br>• Previous Versions Backup<br>• Sidebar Elements Usage Data<br>• Stored Location Permissions<br>• Stored NEL Data<br>• Stored Push Notifications<br>• Stored Session Commands<br>• Stored Tabs Commands |

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| | |
|---|---|
| | • Stored Usage Statistics<br>• Recent Tabs<br>• Removed Suggestions<br>• Stored Printing Information<br>• Temporary Files<br>• Webcam Usage Statistics<br>• Website Databases<br>• Stored Client Hints<br>• Allowed Web Launch Apps Data<br>• Assistant Statistics<br>• Developer Tools Recent Files<br>• Assistant Logs<br>• Stored Suggestion Data<br>• Search History<br>• Session Event Log<br>• Crash Reports<br>• Stored Banner Information<br>• Browser Metrics Files<br>• Browser Metrics Files (Opera GX)<br>• Web Applications Daily Metrics<br>• Stored Bounce Tracking Data<br>• CRX Package Cache<br>• Stored Media Devices Salts<br>• HTTP Allowed Sites Info<br>• Stored Popups Data<br>• 3PCD Heuristics Grants<br>• Databases Old Logs<br>• Shared Dictionary Cache<br>• Custom Handlers Data |
| **Google Chrome**<br>Google Chrome Beta<br>Brave<br>Comodo Dragon<br>SRWare Iron<br>Vivaldi<br>Opera Neon<br>Torch<br>Slimjet<br>Arc | • Cache Files<br>• Cookies<br>• Browsing History<br>• Download History<br>• Address Bar History<br>• Stored Text in Forms<br>• Stored Passwords in Forms<br>• Cached Jump Lists Icons<br>• DNS Prefetching Data<br>• Extensions Databases<br>• Extensions State<br>• Flash Player Cache<br>• GPU Cache |

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| | |
|---|---|
| | • Media Cache<br>• Media Engagement Statistics<br>• Most Visited Sites Data<br>• Prerendering Data<br>• Quota Manager Data<br>• Rollback Journals<br>• Search Engines Data<br>• Search History<br>• Session Databases<br>• Site Engagement Statistics<br>• Stored Favicons<br>• Sync Data<br>• TLS Certificates<br>• Web Apps File System's Files<br>• Web Databases<br>• Budget Database<br>• Service Worker Cache<br>• Site Characteristics Database<br>• Software Reporter Tool Logs<br>• Network Persistence Statistics<br>• Extensions Cookies<br>• Language Statistics<br>• Setup Metrics Files<br>• Stored Website Permissions<br>• Update Files<br>• Invalid Certificates<br>• Stored Push Notifications<br>• Webcam Usage Statistics<br>• Microphone Usage Statistics<br>• Stored Zoom Data<br>• Browser Metrics Files<br>• Cached Script Code<br>• Stored Banner Information<br>• Cached WebAssembly Code<br>• Data Reduction Statistics<br>• Debug Log<br>• Heavy Ad Intervention Statistics<br>• Media Playback History<br>• Permission Notification History<br>• Stored Local FS Access Info<br>• Stored Location Permissions<br>• Stored NEL Data |

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| | |
|---|---|
| | • Stored Services Network Traffic<br>• Stored Session Commands<br>• Stored Sound Playback Settings<br>• Stored Tabs Commands<br>• Stored Translation Parameters<br>• Temporary Files<br>• Web Applications Daily Metrics<br>• Session Event Log<br>• Stored Usage Statistics<br>• Recent Tabs<br>• Removed Suggestions<br>• Stored Printing Information<br>• Temporary Files<br>• Webcam Usage Statistics<br>• Stored Client Hints<br>• Databases<br>• Allowed Web Launch Apps Data<br>• Stored Form Filling Metadata<br>• Developer Tools Recent Files<br>• Safe Browsing Event Timestamps<br>• Safe Browsing Cookies<br>• Stored Trust Tokens<br>• LevelDB Databases<br>• Update Usage Statistics<br>• Stored Idle Detection Data<br>• Optimization Guide Service Files<br>• Crash Reports<br>• Stored Bounce Tracking Data<br>• Browsing History Journeys Data<br>• Permission Auto-Revocation Data<br>• Backup Files<br>• CRX Package Cache<br>• Stored FedCM IdP Data<br>• Stored Interest Groups Data<br>• Stored Media Devices Salts<br>• Stored Cookie Controls Metadata<br>• Stored Segmentation UKM<br>• HTTP Allowed Sites Info<br>• Stored Topics API Data<br>• Stored Popups Data<br>• Allowed Automatic Downloads<br>• 3PCD Heuristics Grants |

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| | |
|---|---|
| | • Databases Old Logs<br>• Updater Log<br>• Web Storage<br>• 3PCD Support Info<br>• Stored Web App Images<br>• Shared Dictionary Cache<br>• Web App Sync Data<br>• Web App Commands<br>• Shared Storage |
| **Skype** | • Chat History<br>• Call History<br>• Stored Chat Properties<br>• Stored Emoticons Information<br>• Stored File Transfer Information<br>• Stored Media Documents Information<br>• Stored Media Transfer Information<br>• Stored Video Devices Information<br>• Voice Mail Records<br>• Cache Files<br>• Emoticons Cache<br>• Media Transfer Cache<br>• Cookies<br>• Sent SMS messages<br>• Unauthorized Contacts<br>• Auxiliary Traces<br>• Business Intelligence Statistics<br>• Internal Database<br>• Cached Certificates<br>• Rollback Journals<br>• Logs<br>• Databases Old Logs<br>• Crash Reports<br>• Cached AI Models |

**To clean traces of Internet activity,**

- Select the required browser.

The browser's panel appears. Depending on the browser, the content of its panel may vary.

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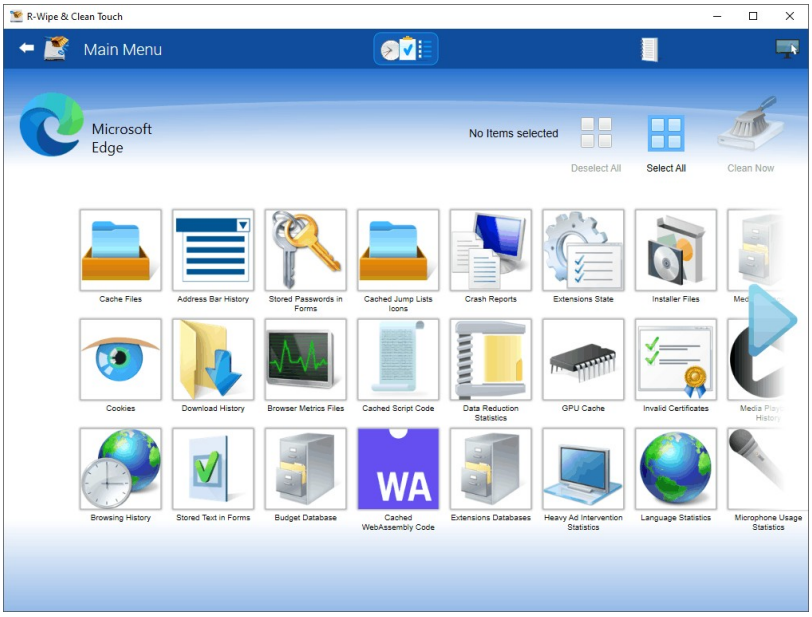
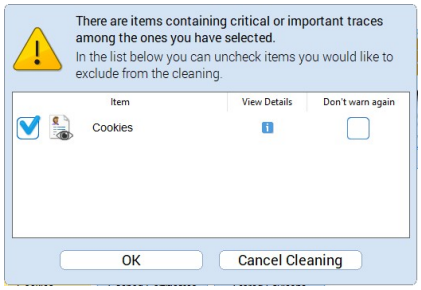
**Microsoft Edge panel**




- Select the required items and tap the Clean Now button.
  The browser section may contain some critical items that may affect browser performance. **R-Wipe & Clean** will throw a warning about those items if you select the entire browser section.

**Critical Item warning**




- Select these items only if you completely understand what you are doing.

When **R-Wipe & Clean** finishes cleaning, the **Report** dialog box will appear showing cleaning results.

***More information on the items in Microsoft Edge***

| Depending on your browser, contents may vary. Below are the items for Microsoft Edge | |
|---|---|
| Cache Files | The Microsoft Edge web browser keeps content, such as pictures, texts, flash movies, audio files, from all web pages you visited. |
| Browsing Data | The Microsoft Edge browser stores cookies (small files that web sites store on your computer for identification purposes), History, logs, etc. |
| Typed URLs | The Microsoft Edge browser can store URLs you typed in the address field. |
| Application Cache | The Application Cache makes it possible for the system to access a web application without a network connection and to work with it faster. |
| Cached Certification Files | Your system stores a cache of Certification Revocation Lists (CRL), Certificate Trust Lists (CTL), Certificates, and other documents used to authenticate web site certificates. |
| Cached DOM Files | Some webpages can be implemented using the DOM (Document Object Module) technology. This list shows you web addresses of such webpages cached in your |

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| | |
|---|---|
| | system. |
| Internal Databases | The Microsoft Edge web browser can create various databases for its own use (diagnostics, updates, etc.) |
| Stored Favicons | The Microsoft Edge web browser can store favicons of visited websites. |
| Stored Recovery Information | The Microsoft Edge browser can store some information about the current session that can be used for recovery in case of an application crash. |
| Temporary Files | List of temporary files created by the Microsoft Edge web browser. |

***More information on the items in Internet Explorer***

| Depending on your browser, contents may vary. Below are the items for Internet Explorer | |
|---|---|
| Temporary Internet Files | Your system keeps content, such as pictures, texts, flash movies, audio files, of all web pages visited by you in the this folder. |
| Cookies | Cookies are small files that web sites store on your computer for identification purposes. You may keep cookies from your favorite sites. You may also see their content.<br>If you do not want to delete cookies from your favorite sites move them to **Favorites** |
| History | You computer stores links to each web site visited by you in this folder. |
| Download History | Web browsers store links to files you have downloaded from those browsers. |
| Typed URLs | Your computer stores URL addresses of most recently viewed pages. You can view them in the drop-down list of the address bar of your internet browser. |
| Form Data | Information you might enter when filling in web forms. |
| DOM Storage | Some webpages can be implemented using the DOM (Document Object Module) technology. This list shows you web addresses of such webpages cached in your system. |
| Extensions Statistics | Internet Explorer stores information about using its add-ons such as ActiveX controls, browser helper objects, or toolbars. |
| Stored Favorites Order | Internet Explorer stores the order of Favorites menu items. When cleaning the tree, you do not remove Favorites menu, only its cached copy. |

#### 3.4.2.2 Cleaning Personal Traces

You may clean various logs, caches, temporary files, and very many traces of your activity in the system.

You may include personal traces cleaning into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

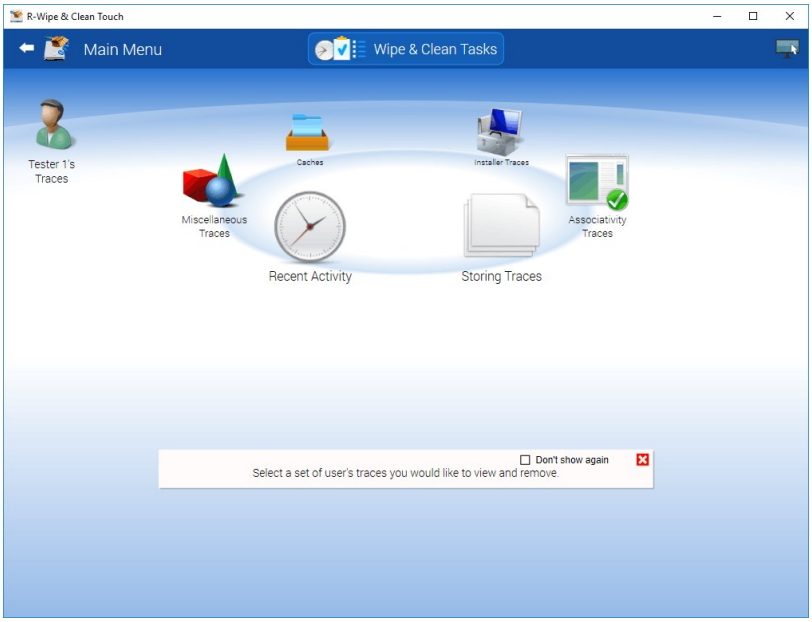
The list of items visible on the **Personal Traces** panel can be edited on the **Customize** panel. These items are user-specific, their contents are individual for each user.

**To clean your personal traces ,**

- Select the icon with your login name.

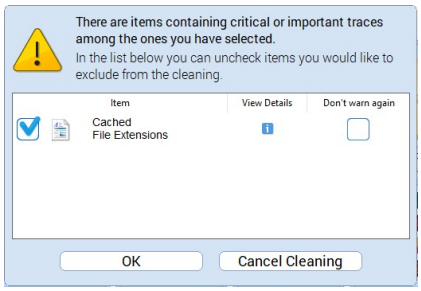
The **Personal traces** panel appears.

**Personal traces panel**




- Go to the required section(s) and select the required items.
  The section may contain some critical items that may affect system performance. **R-Wipe & Clean** will throw a warning about these items if you select the entire section.

**Critical Item warning**




Select these items only if you completely understand what you are doing.

- Tap the **Clean Now** button.

**R-Wipe & Clean** will start cleaning the computer, and the **Deleting and wiping** dialog box will appear showing the progress of cleaning.

***Personal traces are divided into six parts:***

***Recent Activity: More Information...***

| This part allows you to inspect and clean your various recent traces like recently run applications, recent documents, recently visited web sites, etc. Most of these traces are stored in the Registry. | |
|---|---|
| Recent Applications | List of links to recently used applications.<br>**Attention!** When cleaning this list, you **do not remove** the files, only their links. |
| Recent Documents | List of links to recently opened documents (registered file types). This list appears in Documents on the Start menu and includes all documents opened in the system, directly from programs, Files and Folders, by taping desktop icons, etc.<br>**Attention!** When cleaning this list, you **do not remove** the files, only their links. |
| Jump Lists | Shortcuts to pinned and recently opened files, folders, or websites. They may appear either on the Taskbar or Start menu.<br>**Attention!** When cleaning this list, you **do not remove** the files, only their links. |
| File Explorer Jump List | Shortcuts to recently opened files, folders, or websites in File Explorer or its GUI components like Open or Save dialogs. Any folders in this list pinned to Quick access |

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| | |
|---|---|
| | will be unpinned.<br>**Attention!** When cleaning this list, you **do not remove** the files, only their links. |
| Jump Lists Program History | A list of applications launched from the Search Results displayed as Jump Lists. |
| Open File History | List of links to files recently opened directly from programs (on the **Open File** dialog box). Those files do not include files opened from File Explorer, by taping desktop icons, etc.<br>**Attention!** When cleaning this list, you **do not remove** the files, only their links. |
| Shell File History | Your system stores history of files opened with various Windows Shell components.<br>**Attention!** When deleting and wiping the cache, you **do not remove** the extensions, only their cached copies. |
| Activity History (Windows 10+) | Activity history helps keep track of the things you do on your device, such as the apps, and services you use, files you open, and websites you browse. |
| Dialog Box Traces | Many application use common dialog boxes, for example, to open and/or save a file. Your system stores various information after using those dialog boxes in the applications. |
| SmartScreen File Information | The log of downloaded files that the SmartScreen service examined. |

***Storing Traces: More Information...***

| This part allows you to inspect and clean some data (mostly insignificant) of your recent activity. Most of these traces are stored in the Registry. | |
|---|---|
| Recent Network folders | List of links to recently opened network folders. |
| Stored addresses of unread mail | Your system stores addresses and other information for unread messages received in e-mail clients. |
| Stored Application Descriptions | Your system stores a list of application descriptions and their paths for applications that have started at least once. |
| Stored Applications Compatibility Settings | Your system stores various compatibility settings for already removed applications. |
| Stored Browser Plugins Information | Your system stores some information about web browser plugins already removed applications. |
| Stored Control Panel Extensions | Your system stores some information about Control Panel Extensions.<br>**Attention!** When cleaning the cache, you **do not remove** the extensions, only their cached copies. |
| Stored Custom GPU Settings (Windows 10+) | Your system stores some settings of applications that could customize graphics performance. They may have already been removed but their settings may remain. |
| Stored Desktop Shortcut Paths | Your system stores Desktop shortcut and target paths to applications removed from the system. |
| Stored Explorer View Settings | Your system stores a list of folders for which you changed settings in the View menu in Files and Folders |
| Stored File Virtualization | Your system stores a list of files that require administrative privileges to change. Your system will virtualize them if some programs tries to change them without sufficient privileges. |
| Stored FTP Accounts | Your system stores information used to connect to FTP sites |
| Stored FTP Folders | Your system stores links to FTP folders you visited in File Explorer itself or programs using it as an FTP client. |

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| | |
|---|---|
| Stored Microphone Usage Info (Windows 10+) | Your system stores some information about microphone usage in various applications. |
| Stored Mounted Volumes | Your system stores some information about volumes located on external media. |
| Stored Notification Display Info (Windows 8+) | Your system stores some settings for displaying notifications of applications already removed from the system. |
| Stored Notification Settings (Windows 10+) | Your system stores some information about notifications. |
| Stored Programs DOM Data | DOM (Document Object Model) data of the applications that use system's web browser. |
| Stored Quick Launch Shortcuts | The Quick Launch bar is not used in Windows since Windows 7, but some applications still can create their Quick Launch shortcuts in any Windows. shell. |
| Stored Registry Virtualization | Your system stores some information about the virtualization of some Registry keys that require administrative privileges for changing their values and subkeys, and some applications running without such privileges try to change them. |
| Stored Shell Activity | Your system stores some information about programs launched via System shell. |
| Stored Sound Properties | Your system stores sound properties of some applications |
| Stored Sound Schemes | System stores the sound schemes of removed applications. |
| Stored Start Menu Items | n the All Programs part of the Start Menu, your system may store some items (like shortcuts and folders) linked to applications that have already been removed from the system. |
| Stored Startup Applications Info | Your system stores some information about applications launched during system logon and which have already been removed from the system. |
| Stored UWP Programs Window | Your system stores main window screen position of the UWP (Universal Windows Platform) programs and games already removed from the system. |
| Stored Webcam Usage Info (Windows 10+) | Your system stores some information about webcam usage in various applications. |
| Stored Web Credentials | Your system stores some information, such as user names and passwords used to log on to websites. |
| Stored Windows Credentials | Your system stores some information, such as user names and passwords used to log on to other computers on a network. |
| Taskbar Badges Update Statistics | Your system stores the number of program switching on the Taskbar |
| Taskbar Button Click Statistics | The number of times Taskbar has been clicked. |
| Taskbar Favorites Statistics | Various data about the Taskbar Favorites usage |
| Taskbar Jump View Statistics | Your system stores the number of displays of Jump Views for each program on the Taskbar |

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| | |
|---|---|
| Taskbar Jump View Statistics | Your system stores the number of displays of Jump Views for each program on the Taskbar. |
| Taskbar Program Switching Statistics | Your system stores the number of program switching on the Taskbar. |
| Windows Spotlight Images Data (Windows 10+) | The Windows Spotlight downloads images and ads from Bing and displays them as background wallpapers on the Lock screen. |

***Associativity Traces: More Information...***

| This part allows you to inspect and clean information of file type association (file types, protocols, etc.) for already removed applications. Most of these traces are stored in the Registry. | |
|---|---|
| Stored COM Class Identifiers | Your system can keep the Class Identifiers of COM objects in already removed applications. |
| Stored Custom File Type Associations | Your system can store custom associations of file types with applications already removed from the system.<br>**Attention!** Only extensions with "Yes" in the "Will be Deleted" column will be unregistered (removed).<br>Only links to other applications already removed from the system will be deleted. |
| Stored File Types | Your system can keep the file name extensions associated with already removed applications.. |
| Stored MIME Types | Your system stores MIME types registered by already removed applications. |
| Stored Program Identifiers | System stores the program identifiers of removed applications. |

***Installer Traces: More Information...***

| This part allows you to inspect and clean information from various installers and clean trances left after uninstalling applications. Most of these traces are stored in the Registry. | |
|---|---|
| App Installer Traces | Your system can store information from Microsoft App Installer that makes sideloading Microsoft Store apps easy. |
| Stored Installation Information | Your system can store information from the distribution kits of already removed applications. |
| Stored Installer Components Paths | Windows Installer stores paths used during the installation of some programs or services. |
| Stored Installer Packages | You system can store Windows Installer package files (with patches) of already removed applications. |
| Stored Installer Registry Keys | Windows Installer stores the Registry key names used during the installation of some programs or services. |
| Stored UWP Programs Uninstall Time | You system can store the time of the UWP (Universal Windows Platform) programs and games uninstall. |
| Store Policy Check Cache | Each UWP (Universal Windows Platform) program is checked for compliance with Microsoft Store policies during installation. |
| Suggested UWP Programs | You system may suggest you to install various UWP (Universal Windows Platform) programs and games. |
| WWEP Traces (Windows 10 and higher) | You system stores information about Windows Web Experience pack, a system that updates core web components used by Store applications. |

***Caches: More Information...***

| This part allows you to inspect and clean some data caches. Some caches will be created again. |
|---|

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| | |
|---|---|
| Cached Certificates | Cached certificate files used for authentication and data encryption. Included are certificates and Certification Revocation Lists (CRL). Cleaning this cache removes cached copies, not the original files. |
| Cached GDI+ Fonts | Your system stores a cache of GDI+ fonts installed in the system<br>**Attention!** When deleting and wiping the cache, you **do not remove** the files, only their cached copies. |
| Cached Icons | Your system stores a cache of icons of applications that have started at least once to show them faster in Taskbar, Desktop, Start menu, and Program Icons.<br>**Attention!** When deleting and wiping the cache, you **do not remove** the files, only their cached copies. |
| Cached Shell Extensions | Your system stores some information about Shell Extensions (like added shortcut menu items, etc.) of various applications that are installed in the system.<br>**Attention!** When deleting and wiping the cache, you **do not remove** the extensions, only their cached copies. |
| Cached Web Content | A cache of various web content (web pages, images, sounds, video, animations, etc) viewed in applications that use system components for viewing web content. |
| Direct3D Shader Cache | A cache of the Direct3D Shader Caching Library files. |
| DNS Cache | A local cache of the DNS Resolver. This cache stores information about previous DNS lookups to enable Windows or your browser find them quicker.<br>It doesn't affect network caches. |
| Feeds Cache | A cache of web feeds created by some applications. |
| GPU Shader Cache | A cache of a shader, a program that runs on the system's Graphic Processing Unit (GPU) to perform specific graphic rendering tasks. |
| Notification Cache | Your system creates notification cache for the applications pinned to the Start screen. |
| Security Token Service Cache | Files cached by the Security Token Service. |
| Thumbnail Caches | For faster access, your system stores several caches of various thumbnail images from certain files.<br>**Attention!** When deleting and wiping the cache, you **do not remove** the files, only their cached copies. |
| Windows Search Databases | Your system stores a cache of files with the detailed information about files used by Windows to perform very fast search among most popular files on the computer.<br>**Attention!** When deleting and wiping the cache, you **do not remove** the extensions, only their cached copies. |

***Miscellaneous Traces: More Information...***

This part allows you to inspect and clean some miscellaneous traces from various sources. Cleaning these traces may give you some sufficient drive space.

| | |
|---|---|
| Temporary Files and Folders | List of temporary files and folders created by your various programs. |
| AAD Broker Plugin Traces (Windows 10+) | The Azure Active Directory (AAD) Broker Plugin is needed for Windows Store Sign in and.or App Installs in that to free apps can be installed without signing in. |
| Clipboard content | Clipboard content. |
| Common Language Runtime Logs | Your system stores various logs created by the Common Language Runtime (CLR) component of the .Net Framework. You may see file content by taping it. |
| Crash Dumps | Your system stores application's memory dumps created during the application crash. These memory dumps help the application developers to determine the causes of the crashes. |
| Explorer Diagnostics Logs | Your system stores diagnostics logs for Windows Explorer. These logs store information that can be used for troubleshooting. |
| HAM Commit History (Windows 10+) | The history of Host Activity Manager (HAM) that manages the state of a packaged application. |
| Invalid Desktop shortcuts | List of shortcuts that are on your Desktop but not linked to any existing objects. There are two types of invalid Desktop shortcuts:<br>1. Invalid shortcuts to objects on hard disks. Most probably they are linked to deleted objects. They are selected by default and will be removed if Invalid Desktop Shortcuts is selected. If you want to keep the links in the system, clear the links to the objects.<br>2. Invalid shortcuts to objects on removable disks. Most probably they are linked to objects on removable disks that are not present in your system at the moment. They are not selected by default and will not be removed Invalid Desktop Shortcuts is selected. If you want to remove the links from the system, select the links to the objects. |
| Network Diagnostic Logs | Diagnostic logs for troubleshooting of networks |
| Problem Reports | List of programs that caused problems to Windows. You may long tap an item to see its report. |
| Recycle Bin | List of files and folders stored in the Recycle Bin. |
| System Registry traces | Registry records of items used by system (mapped network drives, attached devices, etc.)<br>Empty registry traces lists are dimmed. |
| SSO Authentication traces | Your system stores files from the Single Sign-On web service that allows you to use single authentication for any of your Windows devices and Microsoft services. |
| Startup Menu Experience Host Traces | Your system stores traces from Start Menu Experience Host Traces helps the Start menu in Windows computers to run smoothly and independently, thus removing any chances of errors or crashes associated with the Startup menu |
| Stored Environment Variables | Your system stores a number of environment variables created by already removed applications. |
| Store Locations of Type Libraries | Your system stores locations of type libraries that store information about COM objects from already removed applications. |
| Sync Traces | Traces of content and setting syncing through your Microsoft account. |
| Visual Studio App Center Log | Logs of the Visual Studio App Center, services for building, testing, releasing, and monitoring of mobile and desktop applications. |

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| | |
|---|---|
| Web Content Databases | Databases of viewed web content.<br>**Attention!** It's recommended to remove these databases together with Temporary Internet Files, Cookies, and History of Internet Explorer. |
| WebView Traces | The Microsoft Edge-based WebView control can be used in modern Windows applications to display web content instead of the old IE-based control. |
| Windows Update Log | The log of updates that your system downloaded and automatically installed. |

#### 3.4.2.3 Cleaning System's Own Traces

Your may clear system traces such as registry traces, temp files, system history, caches, and various log files. You may see the contents of any particular item on its respective panel.

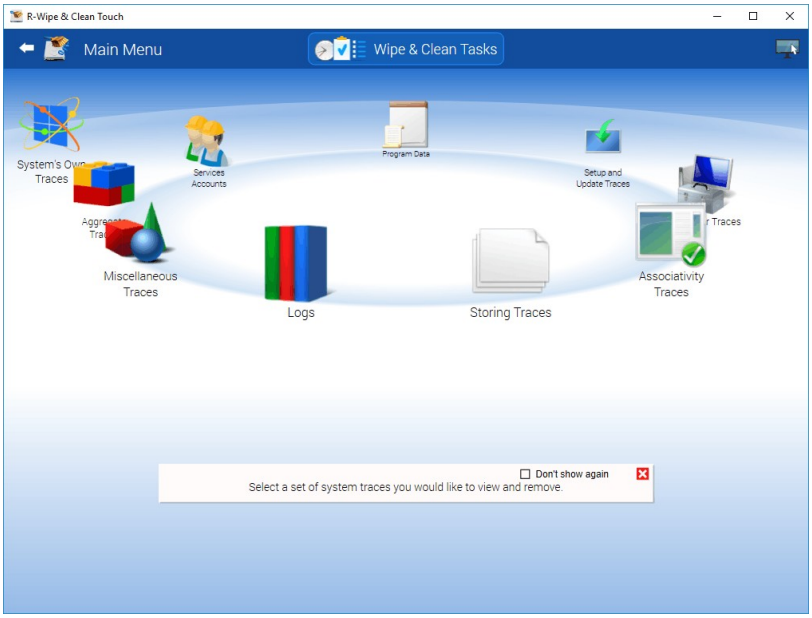
You may also include system's own traces cleaning into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

The list of items visible on the **System** panel can be edited on the **Customize** panel.

**To clean traces of system activity,**

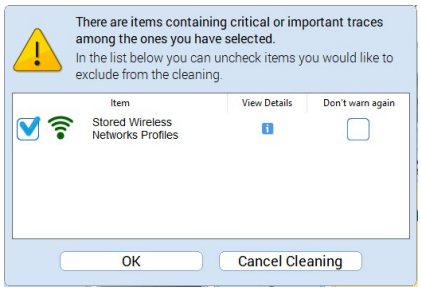
- Select the **System's Own Traces** item.
  The **System** panel will appear.

**System's Own Traces panel**




- Go to the required section(s) and select the required items.
  The section may contain some critical items that may affect system performance. **R-Wipe & Clean** will throw a warning about these items if you select the entire section.

**Critical Item warning**

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Select these items only if you completely understand what you are doing.

- Tap the **Clean Now** button.

**R-Wipe & Clean** will start cleaning the computer, and the **Deleting and wiping** dialog box will appear showing the cleaning progress.

***System traces are divided into nine parts:***

You may read more about these items in the **R-Wipe & Clean Classic** help.

***Logs: More Information...***

| | |
|---|---|
| This part allows you to inspect and clean various logs created by various system components. Quite often you may gain some free drive space upon removing these logs. | |
| BLB Service Events Log | Event logs of the BLB (Block Level Backup) Engine Service. |
| Boot File Repair Log | Event log the Boot File Servicing Utility for Boot File Repair. |
| Component-Based Servicing Log | A log file of the Windows Component-Based Servicing activity that may help in troubleshooting. |
| Delivery Optimization Service Events Logs | Delivery Optimization Service Events Log created by the delivery optimization service for troubleshooting. |
| Deployment Image Service and Management Log | Deployment Image Service and Management Log Microsoft (DISM) tools can reate a log to assist in tourbleshooting. |
| Diagnostics Logs | Your system creates several log files that assist in troubleshootng. Double-click a file to view its. content. |
| Disk Recovery Logs | Your system creates some diagnostics and event logs for disk recovery events. |
| Event Logging Diagnostic Logs | Your system creates diagnostic log files of the Event Logging component. |
| LSA Events Logs | Log files from the LSA (Local Security Authority) service that validates local and remote sign-ins to enforce local security polices. Those files are used to assist in troubleshooting. |
| Measured Boot Logs | Your system creates a log file that assist in Measured Boot troubleshootng. The Measured Boot feature that provides antimalware software with a trusted log of all boot components to determine whether the component is clear or infected with malware. |
| .NET Framework Logs | Microsoft .Net tools and services may create logs to assist in tourbleshooting. Double-click a file to view its content. |
| Network Setup Service Events Logs | Network Setup Service Events Logs created by the network setup service to assist in troubleshooting of network driver installation. |
| Program Install Logs | Logs of program installation used to check compatibility. |
| SAM Events Logs | Logs of the SAM (Security Account Manager) events. SAM is used to authenticate local and remote users. |
| Server-initiated Healing Events Logs | Server-initiated Healing Events Logs created by the Windows Update service to assist in troubleshooting. |
| Services Logs | Services may create log files that assist in troubleshooting. |
| MS DTC Service Trace Logs | Your system creates trace logs of the Microsoft Distributed Transaction Coordinator (DTC) service that coordinates transactions between databases, message queues, file systems, and other resources. |
| NDF Logs | Logs of Network Diagnostics Framework (NDF) that provides a way for users to diagnose and repair network problems using a single troubleshooting tool. |

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| | |
|---|---|
| Sleep Study Events Log | The log of events created by Sleep Study tool that identifies sources of battery drain during computer's sleep time. |
| Startup File Renaming Log | A log containing a list of files that Windows renames during its startup. May help in troubleshooting. |
| Storage Group Policy Log | A log of Storage management performed using Group Policy. |
| System Restore Event Log | An event log of the System Restore service that can assist in troubleshooting. |
| Tracing Logs | Your system can create various tracing logs that may assist in troubleshooting. |
| WDI Diagnostic Log | Log of Windows Diagnostic Infrastructure (WDI) that help to detect, diagnose and solve common problems with a minimum user interactions. |
| WDI Events Log | Event log of Windows Diagnostic Infrastructure (WDI) that help to detect, diagnose and solve common problems with a minimum user interactions. |
| WDI Startup Logs | Logs of Windows Diagnostic Infrastructure (WDI) that store information about applications launched during system startup to assist in troubleshooting. |
| Windows Events Log | Your system keeps a log of Windows events (System, Security, and Applications).<br>You may edit the list of items you want to view. Right-click the header and change the list of items to show. |
| Windows Firewall Log | Your system keeps a log of the Windows built-in firewall. You need to restart your system to start wiping this log. You will be prompted to restart your system or to delay wiping until the next restart. |
| WinRE Logs | Your system keeps a log of the Windows Recovery Environment (WinRE) that can repair common causes of unbootable operating systems. |
| WIP Logs (Windows 10+) | Your system keeps a log of the Windows Information Protection (WIP) that can protect against enterprise data leakage through apps and services like email, social media, and public clouds that are outside of the enterprise control. |
| WMI Logs | Windows Management Instrumentation (WMI) and WMI providers create several log files that assist in troubleshooting. |
| AAD Events Log<br>(Windows 10+) | Your system keeps an event log of Azure Active Director (AAD) that provides common identity and access capabilities to all web services. |
| AAD User Device Registration Log<br>(Windows 10+) | The Azure Active Directory (AAD) is a Microsoft cloud-based identity and access management service which helps a company's employees sign in and access both the external and internal resources of the company. |
| AppID Events Log | An event log of actions with AppIDs. |
| Application Experience Events Log | Application Experience Service creates an event log of software updates to programs to ensure they run on newly released Windows versions. |
| Application Server Events Log | An event log of Application Server, an integrated environment for deploying and running custom, sever-based business applications. |
| AppLocker Executable Events Log | An event log of AppLocker that allows or denies application execution. |
| AppLocker Script Events Log | An event log of AppLocker that allows or denies script execution. |

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|---|---|
| AppModel Runtime Events Log | The AppModel Runtime Events Log stores the events of Universal Windows Platform applications. |
| App Readiness Diagnostics Log | The log of the App Readiness Diagnostics, the service that makes apps ready for use them the first time when the user signs in to PC or when adding a new app |
| APP Readiness Service Log | The log of the App Readiness Service that makes apps ready for use them the first time when the user signs in to PC or when adding a new app. |
| AppX Deployment Server Events Log | The AppX Deployment Server Events Log stores the events of AppX Deployment Server during updating Store applications. |
| AppX Deployment Service Events Log | The AppX Deployment Service Events Log stores the events of AppX Deployment Service during deploying Store applications. |
| AppX Packaging Events Log | Your system can create a log of events that occurred with Microsoft Store application packages |
| AppX Restricted Deployment Log | Your system can create a log of restricted operations events that occurred with Microsoft Store application packages |
| AppX Undocked DEH Events Log (Windows 10+) | The event log of the Deployment Extension Handler (DEH) allowing apps to access extensibility points in the system. An undocked DEH ships outside of an OS release. |
| Audio Devices Events Log | Your system can create a log of events that occurred in various audio devices in the system. |
| Authentication UI Events Log | Your system can create a log of events that occurred during user authentication via user interface (UI). |
| Audio Glitch Detection Log | The Audio Glitch Detection Log stores events of audio glitches made by Windows Audio Service. |
| Audio Playback Log | The Audio Playback Log stores a list of audio playbacks by the Windows Audio service. |
| Azure Setting Sync Events Log (Windows 10+) | The Azure Setting Sync Events Log stores information about this cloud service used for managing applications and services through Microsoft-managed data centers. |
| Backup and Restore Debug Log (Windows 10+) | The Backup and Restore Debug Log stores debug information that can be used to assist in troubleshooting. |
| BDP Tool Events Log | The log of the BitLocker Drive Preparation (BDP) Tool is used to prepare the computer for BitLocker Drive Encryption. |
| BitLocker Events Log | The event log of BitLocker, a data protection feature that encrypts system and data volumes. |
| BITS Events Log | The Background Intelligent Transfer Service (BITS) creates a log of background file transfers. |
| BranchCache Service Events Log | The BranchCache Service Events Log stores information about cached network content from peers on the local subnet. |
| BTIS Events Log | The Background Tasks Infrastructure Service (BTIS) controls the background tasks to run in the the system. |

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|---|---|
| CHAP Events Log | The log of events of the Challenge Handshake Authentication Protocol (CHAP) used to authenticate the user in PPTP-based networks. |
| Client License Service Events Log | The Log of Client License service that provides infrastructure support for Microsoft Store. |
| Cloud Recovery Events Log (Windows 10+) | The Log of Cloud Recovery that enables you to reset your computer with files downloaded from Microsoft rather than the installation files stored on your local computers. |
| CloudStore Events Log (Windows 10+) | The Log of CloudStore component used by OpenDrive. |
| Code Integrity Events Log | The Log of Code Integrity, a Windows mechanism that authenticates the integrity and source of executable images (applications, DLL, drivers, etc.) by validating a digital certificate contained within the image resources. |
| Core Application Events Log | The System Core Application system component creates a log of Universal Windows Platform application events. |
| Data Integrity Recovery Events Log | An event log of recovering fault-tolerant volumes. |
| Data Integrity Scan Events Log | An event log of scanning fault-tolerant volumes for latent corruptions. |
| Date and Time Control Panel Events Log | An event log of the Date and Time Control Panel. |
| Default Programs Events Log (Windows 10+) | The event log of default program assignments for certain file types and protocols. |
| Device Install Service Events Log | The event log of the Device Install service that allows the computer to recognize hardware changes and adapt the system to them with little or no interactions with the user. |
| Device Setup Events Log | The Device Setup Manager (DSM) service used for detection, download and installation of device-related software creates a log of events during device setup. |
| Device Watchdog Events Log (Windows 10+) | The Watchdog service used to control device hangs creates a log of events. |
| DHCP Client Service Events Log | The DHCP Client service creates a log of events during obtaining and updating IP addresses and DNS records. |
| DHCPv6 Events Log | The event log of working on IPv6 networks. |
| Diagnostic Policy Service Events Log | The Diagnostic Policy Service that helps detecting, troubleshooting, and resolving problems, creates a log of events. |
| Disk Cleanup Diagnostic Log (Windows 10+) | The Disk Cleanup frees up space on computer's hard drive. It creates a log of its diagnostics. |
| DPAPI Events | Log of the DPAPI (Data Protection Application Programming Interface) component of the system data encryption. |
| DSM Service Events Log | The Device Setup Manager (DSM) service used for detection, download and installation of device-related software creates a log of events. |

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|---|---|
| EAP Host Events Log | The Extensible Authentication Protocol (EAP) Host service provides an authentication in various networks and creates a log of events. |
| FTH Service Events Log | Log of the Fault Tolerance Heap that monitoring application crashes and makes necessary mitigation to prevent future crashes. |
| Group Policy Events Log | The Group Policy Client service used to apply settings configured through the Group Policy component creates a log of events. |
| Hardware Thermal Events Log | The event log of overheated hardware components and system actions. |
| Hyper-V Activity Log | The activity log of Hyper-V system that runs virtual machines. |
| Hyper-V Events Log | The event log of the Hyper-V system that runs virtual machines. |
| Hyper-V Virtual Switch Log | The event log of Hyper-V Virtual Switch that provides connection for virtual machines to external networks. |
| Kernel Boot Events Log | The log of kernel events during startup time. |
| Kernel Event Tracing Log | The log of events occurred in the system or application at the kernel level. |
| Kernel I/O Events Log (Windows 10+) | The Kernel I/O Events Log stores events of communications between applications and interfaces provided by device drivers. |
| Kernel Live Dump Capture Log | The Kernel Live Dump Capture Log stores events of abnormal situation when the OS can continue operation. |
| Kernel Shim Engine Events Log | The Kernel Shim Engine that provides device and driver shims creates a log of its events. A device shim is a hardware-specific "workaround". A drive shim is a custom routine for chaning the behavior of the driver. |
| Known Folders Error Log | The log of errors occurred in "Known Folders" (Documents, Downloads, Pictures, Videos, etc.). |
| Language Pack Setup Error Log | Log of errors occurred during Language Pack setups. |
| Local Session Manager Events Log | The log of events created by Local Session Manager managing local user sessions. |
| LPAC Security Events Log (Windows 10+) | The log of attempts of unauthorized access to system resources by applications running in a less privileged app container (LPAC). |
| MDM Diagnostics Events Log | The log of events created during the diagnostics of Mobile Device Management (MDM) services. |
| MDM Security Events Log (Windows 10+) | The log of events created during the security of Mobile Device Management (MDM) services |
| Microsoft Account Events Log | The event log of Microsoft account. |
| MUI Events Log | The event log of Multilingual User Interface (MUI) that can help in troubleshooting. |
| NCrypt Events Log | The event log of the NCrypt system component that provides data encryption. |
| NCD Auto-Setup Service Log | The service log of the NCD (Network Connected Device) Auto-Setup service that monitors and installs qualified devices that connect to qualified networks. |

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| NCSI Events Log | The event log of Network Connection Status Indicator (NCSI), a service detecting Internet connectivity status. |
| Network Diagnostics Events Log | The event log of network diagnostics. |
| NLA Network Profiles Events Log | The event log of Network Location Awareness (NLA) service creating a Network Profile for every network it connects to. |
| NLA Service Events Log | The event log of Network Location Awareness (NLA) service that stores configuration information for the network and notifies programs when this information is modified. |
| Network Location Wizard Events Log | The event log of Network Location Wizard Events that identifies the type of network (private or public) that PC is connected to with a network adapters. |
| NTFS Disk Events Log | The NTFS disk event log. |
| NTFS Disk Monitoring Log | The event log of Activity Center that monitors the NTFS disk status. |
| Offline Files Events Log | The event log of offline local copies of files stored on the network. |
| Partition Diagnostics Events Log (Windows 10+) | The log of events that occurred during the diagnostics of data storage devices connected to this PC. |
| PCW Diagnostics Events Log | The log of diagnostic events for the PCW (Performance Counters for Windows) that collects various system data (statistics for CPU, memory, and disk usage). |
| Performance Diagnostics Events Log | The event log of Performance Diagnostics that monitors system problems. |
| PnP Device Configuration Log | The log of device configuration for the Plug and Play (PnP) service enabling a computer to recognize and automatically adapt itself to hardware changes. |
| PnP Service Events Log | The event log of the Plug and Play (PnP) service enabling a computer to recognize and automatically adapt itself to hardware changes. |
| PowerShell Diagnostics Log | The diagnostics log of the PowerShell framework that manages task automation and configuration.. |
| PowerShell Events Log | The event log of the PowerShell, a task automation and configuration management framework. |
| Print Service Events Log | The event log of printing of various documents. |
| Privacy Auditing Events Log (Windows 10+) | The event log of the changes in the access rights of applications o various system components. |
| PCA Events Log | The event log of the Program Compatibility Assistant that helps end users run desktop applications designed for earlier Windows versions. |
| Provisioning Diagnostics Events Log (Windows 10+) | The diagnostics event log of the Windows Provisioning that configures end-user devices |
| RDP Client Events Log | The event log of the RDP (Remote Desktop Protocol) clients. |
| RDP Core Events Log | The event log of the RDP (Remote Desktop Protocol) core. |
| ReadyBoost Events Log | The event log of ReadyBoost that makes NAND memory (CompactFlash, SD cards, and USB memory sticks, etc) be used as a |

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| | write cache between RAM and a hard drive to increase throughout performance. |
| Remote Assistance Events Log | The event log of Windows Remote Assistance, a service that allows a trusted entity to remotely fix issues. |
| Remote Connection Manager Log | The event log of Remote Connection Manager, a service that is used to establish a connection with remote PCs. |
| Resource Exhaustion Detector Log | The event log of Windows Resource Exhaustion Detector that notifiers the user of system resource exhaustion (free disk space, free RAM, etc.). |
| Resource Exhaustion Resolver Log | The event log of the Resource Exhaustion Resolver that provides details about corrective actions you can take to recover system resources when the system has a critical amount of memory committed to applications. |
| Scheduled Diagnostics Events Log | The event log of scheduled diagnostics the system performs. |
| Scripted Diagnostics Events Log | The event log of scripted diagnostics performing periodical system maintenance by automatic fixing problems or reporting them through Action Center. |
| Scripted Diagnostics History | The history log of scripted diagnostics performing periodical system maintenance by automatic fixing problems or reporting them through Action Center. |
| Scripted Diagnostics Provider Log | The event log of scripted diagnostics provider performing periodical system maintenance by automatic fixing problems or reporting them through Action Center. |
| Security Mitigations Events Log (Windows 10+) | The event log of exploit mitigation techniques used to protect your system and system processes. |
| Setting Synchronization Debug Log | The debug log of Setting Synchronization service that synchronizes your system settings with your other devices. |
| Setting Synchronization Events Log | The event log of the Setting Synchronization service that synchronizes your system settings with your other devices. |
| Shell Core Action Center Log | The event log of the Action Core Action Center events that occur in the system's shell core. |
| Shell Core Events Log | The event log of Windows Shell Core. |
| Shell Start Events Log (Windows 10+) | The event log of Shell startup. |
| SMB Client Connectivity Log | The connectivity event log of the client-side SMB events. SMB (Server Message Block) is a protocol for shared access to files and printers in a network. |
| SMB Client Events Log | The event log of the client-side SMB events. SMB (Server Message Block) is a protocol for shared access to files and printers in a network. |
| SMB Client Security Events Log | The event log of the client-side SMB security events. SMB (Server Message Block) is a protocol for shared access to files and printers in a network. |

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| SMB Server Connectivity Log | The event log of the server-side SMB connectivity events. SMB (Server Message Block) is a protocol for shared access to files and printers in a network. |
| SMB Server Events Log | The event log of the server-side SMB events. SMB (Server Message Block) is a protocol for shared access to files and printers in a network. |
| SMS Router Service Events Log (Windows 10+) | The event log of the SMS Router Service that routes messages basing on rules to appropriate clients. |
| SPP UX Events Log | The event log of the SPP UX component (Software Protection Platform User Experience), the system component that handles the user experience for Windows licensing. |
| State Repository Service Events Log (Windows 10+) | The event log of the State Repository Service that provides required infrastructure support for applications. |
| Storage Management Events Log (Windows 10 | The event log of the Windows Storage Management component that is used to manage various storage configurations. |
| Storage PnP Events Log | The event log of the PnP operations on storage devices. |
| Storage Service Diagnostics Log (Windows 10+) | The event log of the Storage Service provides enabling services for storage settings and external storage expansion. |
| Storage Settings Diagnostics Log (Windows 10+) | The diagnostic log of the Storage Settings Diagnostics system. |
| Storage Spaces Agent Log | The event log of the Storage Spaces Agent system. |
| Storage Spaces Events Log (Windows 8 and later) | The event log of the Storage Space service. |
| Store Client Events Log | The event log of Windows Store Client application. |
| Store Licensing Events Log | The event log of Windows Store Licensing model that allows to run any purchased application any device from one account. |
| StorPort Dagnostics Events Log (Windows 10+) | The event log of the StorPort (storage port) driver diagnostics. |
| StorPort Events Log | The event log of the StorPort (storage port) driver. |
| Task Scheduler Maintenance Log | The maintenance log of Task Scheduler. |
| TimeZone Synchronization Task Log | The event log of TimeZone Synchronization service updating time zone informaiton. |
| TWinUI Events Log | The event log of TWinUI (Tablet Windows User Interface) launching UWP (Universal Windows Platform) applications. |
| UAC Events Log | The event log of UAC (User Account Control) that can assist in troubleshooting. |
| UAC File Virtualization Log | The event log of UAC (User Account Control) that visualizes files in system folders for security reasons. |
| User Profile Service Events Log | The event log of User Profile Service that loads and unloads user profiles. |

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| UTC Service Events Log (Windows 10+) | The event log of Universal Telemetry Client (UTC) service that collects telemetry data in Windows 10. |
| VHDMP Events Log | The event log of VHDMP (Virtual Hard Disk MiniPort) service that simulates disk devices when, for example, you mount an ISO image. |
| Volume Snapshot Driver Events Log (Windows 10+) | The event log of Volume Snapshot Driver that ensures backup consistency. |
| WCM Service Events Log | The event log of Windows Connection Manager (WCM) service that makes automatic connect/disconnect decisions by looking at Ethernet Wi-Fi, and mobile broadband interfaces. |
| Web Authentication Events Log (Windows 10+) | The event log of Web Authentication Events, a solution for hardware-bound credentials that can replace less secure the login/password authentication method. |
| WER Diagnostics Events Log | The diagnostic event log of Windows Error Reporting (WER) service that notifies Microsoft about application faults, kernel faults, unresponsive applications, and other applications. |
| WER Upload Events Log (Windows 10+) | The event log of Windows Error Reporting (WER) service that notifies Microsoft about application faults, kernel faults, unresponsive applications, and other applications. |
| WFP Events Log | The event logs of Windows Filtering Platform (WFP), that allows Windows software to process and filter network traffic. |
| WFP IKE Events Log | The event logs of the Internet Key Exchange service of the Windows Filtering Platform (WFP), that allows Windows to exchange secret keys safely. |
| WHEA Events Log | The event log of Windows Hardware Error Architecture (WHEA) that provides a hardware error handling mechanism. |
| Win32 Driver Events Log (Windows 10+) | The event log of Win32 Driver, the kernel-mode side of the Win32 Windows subsystem that is loaded when the boot process is complete and the system moves into the User mode. |
| Windows Biometric Service Events Log | The event log of Windows Biometric Service that captures, compares, manipulates, and stores biometric data without access to any biometric hardware. |
| Windows Container Isolation Service Log (Windows 10+) | Containers provide a lightweight, isolated environment that makes apps easier to develop, deploy, and manage. |
| Windows Container Bind Filter Log (Windows 10+) | The event log for the Windows Bind Filter service that binds filesystem namespaces to different locations and hides this remapping from the user |
| Windows Defender Events Log | The event log of Windows Defender Service that protects the users from malware and other potentially harmful software. |
| Windows Defender Monitoring Log | The monitoring log of Activity Center that monitors the state of Windows Defender. |

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| Windows Firewall Diagnostics Log (Windows 10+) | The diagnostics log of Windows Firewall that protects the computer by preventing unauthorized access through the Internet of local network. |
| Windows Firewall Events Log | The event log of Windows Firewall that protects the computer by preventing unauthorized access through the Internet of local network. |
| Windows Hello Events Log | (Windows 10 only) The event log of Windows Hello, the service that allows Windows 10 devices to use your face, fingerprint, or companion device to sign in. |
| Windows Time Service Events Log (Windows 10+) | (Windows 10 only) The event log of Windows Time Service Events Log, the service that allows maintains date and time synchronization on all network clients and servers. |
| Windows Update Events Log | The event log of Windows Update service that detects, downloads, and installs updates for Windows and other programs. |
| WinINet Events Log | The event log of WinINet client platform for interactive desktop applications. |
| Winlogon Events Log | The event log of Windows Logon component that performs some operations when a user signs in. |
| WinRM Service Events Log | The event log of Windows Remote Management (WinRM) service that performs the WS-management (Web services management) protocol used for remote software and hardware management. |
| WinSAT Events Log | The event lof of the Windows System Assessment Tool (WinSAT) that measures various performance characteristics and capabilities of the hardware. |
| WLAN AutoConfig Service Events Log | The event log of WLAN AutoConfig service that discovers, connects to, configures, and disconnects from, a wireless local area network (WLAN). |
| WMI Events Log | The event log of Windows Management Instrumentation (WMI) service that provides a common interface and object model to access management information about operating system, devices, applications, and services. |
| WNS Events Log | The event log of Windows Push Notification (WNS) service that provides sending push data ("toast" and "tile" updates) to Universal Windows Platform applications. |
| Work Folders Events Log | The events log of Work Folders that store files on a personal computer (bring-your-own device - BYOD). |
| Work Folders Management Log | The management log of Work Folders that store files on a personal computer (bring-your-own device - BYOD) |
| WPD MTP Events Log | The event log of the Media Transfer Protocol (MTP) used by Windows Portable Devices (WPD) to communicate with attached media and storage devices. |

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***Storing Traces: More Information...***

| This part allows you to inspect and clean various traces (mostly insignificant) left by some system applications and services, some already removed from your system. Most of these traces are stored in the Registry. | |
|---|---|
| Stored Application Compatibility Settings | Your system can keep various compatibility settings for already removed applications. |
| Stored System Environment Variables | Your system can keep the environment variables created by already removed applications. |
| Stored Browser Plugins Information | Your system can keep some information about web browser plugins already removed from your system. |
| Stored Locations of Shared Modules | Your system stores list of modules that applications share. |
| Stored Locations of System Type Libraries | Your system stores locations of type libraries that store information about COM objects from already removed applications. |
| Stored Network Information | Your system stores some information about networks your device was connected to. |
| Stored Scheduled Tasks | Your system stores some information about tasks scheduled by already removed applications. |
| Stored Services Information | Your system stores information about services of already removed applications. |
| Stored Legacy Services Information | Your system stores information about already removed legacy services. |
| Stored USB Storage Information | Your system stores information about already removed legacy services |
| Stored Wireless Networks Profiles | Your system can keep some information (like secret key) about wireless networks your computer ever has been connected to. You may select those profiles to remove their data. |

***Associativity Traces: More Information...***

| This part allows you to inspect and clean various traces connected with associativity of file types, protocols, etc., with already removed applications. | |
|---|---|
| Stored AutoPlay Handlers Paths | Your system can keep autoplay information (what Windows is to do when detects a certain media files on a removable media device) for already removed applications. |
| Stored COM Class Identifiers | Your system can keep the Class Identifiers of COM objects in already removed applications. |
| Stored COM Interface Identifiers | Your system can keep the COM interface Identifiers contained in already removed applications. |
| Stored e-Mail Programs Information | You system can store some information about already removed e-mail applications. |
| Stored Event Logging Applications Information | Some applications can save info about various events to the Application log of your system. Also, your system can keep some information about those applications, even if they have already been removed. |
| Stored System File Types | Your system can keep the file name extensions associated with already removed applications. |
| Stored Firewall Rules | Your system can keep the built-in firewall rules for already removed applications. |
| Stored Info of Connection IA Apps | Your system stores locations of image acquisition applications - programs that start when an image-capturing device like a scanner, digital photo or |

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| | movie camera. |
| Stored Info of Proxy IA Apps | Your system stores information of a proxy image acquisition application - a program that start when an image-capturing device like a scanner, digital photo or movie camera, if no other application is assigned to those actions. |
| Stored Info of Scan Button IA Apps | Your system can keep some information about Image Acquisition applications, programs to launch when you press the Scan button on a connected scanner. |
| Stored Media Players Information | Your system can keep some information about media players that have been removed from the system. |
| Stored MIME Types | Your system stores MIME types registered by already removed applications. |
| Stored News Readers Information | Your system stores some information about news readers already removed from the system. |
| Stored Perceived Types Applications | Your system stores names of already removed applications and perceived types associates with them. |
| Stored System Program Identifiers | Your system stores program identifiers from already removed applications. |
| Stored Recording Software Information | Your system stores information about audio, screen, and video recording software already removed from the system. |
| Stored Web Browsers Information | Your system stores information about web browsers already removed from your system. |

***Installer Traces: More Information...***

| This part allows you to inspect and clean various data left by installers of already removed applications. Most of these traces are stored in the Registry. Sometimes you may significantly clean the Registry by removing these traces. | |
|---|---|
| Installer's Temporary Files and Folders | The list of temporary files and folders created during the installation and updates of programs and system components |
| Stored System Installation Information | Your system can store information about distribution kits of already removed applications. |
| Stored Installer Components Paths | Windows Installer stores paths used during the installation of some programs or services. |
| Stored Installer Folders | Windows Installer stores paths used during the installation of some programs or services. |
| Stored Installer Packages | You system can store Windows Installer package files (with patches) of already removed applications. |
| Stored Installer Registry Keys | Windows Installer stores the Registry key names used during the installation of some programs or services. |
| Stored Programs and Features Info | Your system stores information about already removed applications. |
| Stored Programs and Features Paths | Your system stores information about already removed legacy services. |
| Stored Programs and Features Paths | Your system stores information about already removed legacy services. |
| Stored Programs and Features Sources | Your system stores paths to folders from which applications or system components were installed. |
| Stored Store Install Information | Your system stores information some information about installation and updates of the UWP (Universal Windows Platform) programs and games |

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| | already removed from your system. |

***Setup and Update Traces: More Information...***

| This part allows you to inspect and clean various data left by system setups and updates. | |
|---|---|
| Microsoft Update Health Tools Log (Windows 10+) | The event log of Microsoft Update Health Tools that improves reliability of Windows Update Service. |
| Provisioning Temporary Folders (Windows 10 | Folders to store configurations and settings to enroll devices and apply those configurations fast. |
| Setup Logs | Log files created when your system has installed its components. Double tap a file to view its content. |
| System Windows Update Logs | Your system stores log files created during installing updated (security and other critical updates that protect your computer). |
| Windows Update Medic Service Events Logs | Your system stores event logs created by Windows Update Medic Service that remediates and protects Windows Update components. |
| Windows Update Trace Logs | List of trace files created by the Windows Update service for error detection and diagnostics. |
| WSUS Data Store Traces | WSUS (Windows Software Update Services or Windows Server Update Services) create some temporary and log files that assist in troubleshooting. |
| WSUS Events Log | WSUS (Windows Software Update Services or Windows Server Update Services) creates a log file that assist in troubleshooting. |

***Program Data Traces: More Information...***

| This part allows you to inspect and clean various traces left by system services and installed application and which are common to all users of this computer. | |
|---|---|
| Windows Defender Activity Log | Windows Defender can log some details of its activity. |
| Windows Defender Delayed Reports | Windows Defender can log some postponed reporting about detecting threats. |
| Windows Defender Detection Log | Windows Defender can log a brief information about detected viruses. |
| Windows Defender Network Inspection Service Log | The Network Inspection Service of Windows Defender can log its activity to assist in troubleshooting. |
| Windows Defender Scan Logs | Windows Defender creates various logs during disk scan to assist in troubleshooting. |
| Windows Defender Scan Results | Windows Defender stores some details about each disk scan. |
| Windows Defender Quick Scan Results | Windows Defender stores some details about each quick disk scan. |
| Windows Defender WPP Files | Windows Defender can use the Windows software trace pre-processor to trace its operations for troubleshooting. |
| Common Windows Search Databases | Your system stores a cache of files with the detailed information about files used by Windows to perform very fast search among most frequently used files on the computer.<br>**Attention!** When deleting and wiping the cache, you **do not remove** the files, only their cached copies. |

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| Windows Search Indexing Files | Your system stores detailed information about files which Windows uses to perform very fast search for most frequently used files on the computer. |
| Windows Search Stream Log Files | Your system stores detailed information about files which Windows uses to perform very fast search for most frequently used files on the computer. Double tap a file to view its content. |
| Indexing Traces | Your system stores detailed information about files which Windows uses to perform very fast search for most frequently used files on the computer. Double tap a file to view its content. |
| CSP Diagnostic Event Logs (Windows 10 and later) | Your system stores the event log of Configuration Service Provider (CSP), an interface to read, set, modify, or delete configuration settings of the devices. |
| Digital Rights Management Traces | Traces of the Digital Rights Management protecting proprietary data from illegal usage.<br>Double-tap a log to view its content. |
| Event Viewer History | History and some settings of the viewed Windows event logs. |
| Map Data | Data of the maps used by navigation applications. |
| Power Efficiency Diagnostics Reports | Energy reports that help users to improve common energy efficiency and solve battery life problems |
| Reliability Monitoring Traces | The activity traces for Reliability Monitor, and advanced tool that estimates hardware and software problems and other computer changes. |
| RUXIM Events Log | The events log of RUXIM (Reusable UX (User eXperience) Interaction Manager), a component used by Windows Update that all required updates are properly scheduled and delivered. |
| Software Quality Monitoring Traces | The activity traces for the Microsoft's Software Quality Monitoring program. |
| Update Orchestrator Events Logs | Update Orchestrator Events Logs created by the Windows Update service to assist in troubleshooting. |
| WFP Diagnostics Logs | WFP Diagnostics log created by the Windows Filtering Platform that allows software to process and filter network traffic. It is used by firewalls, intrusion detection systems, antivirus programs, network monitoring tools, and parental control. |
| Windows Security Service Logs | Logs of Windows Security Service that handles unified device protection and health information. |
| App Repository | App Repository is used when downloading and installing applications from the Store.<br>Red items can contain important information. They are not selected by default and can be removed only manually on this panel. |
| Stored Start Menu Items | A list of links to removed applications stored in the All Programs section of Start Menu. |
| Stored Startup Application Info | Stored information about removed applications launched during logon.<br>**Attention!** When cleaning this list, you **do not remove** the files, only their links. |

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***Services Accounts Traces: More Information...***

| | |
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| This part allows you to inspect and clean various traces left by 3 predefined system accounts : Local System, Local Service, and Network Service. | |
| System Registry Traces | Registry records of items used by the system ()recent system applications, etc.) |
| Local Service's Temporary Files | Temporary files that the "Local Service" account creates. |
| Local System's Temporary Files | Temporary files that the "Local System's" account creates. |
| Network Service's Temporary Files | Temporary files that the "Network Service" account creates. |
| LSyss Direct3D Shader Cache | The Direct3D Shader Caching Library of the System creates a cache of its files. |
| Local Service's Cached Certification Files | A cache of documents used to authenticate web site certificates. Those include certificates, Certification Revocation Lists (CRL). Cleaning this cache removes cached copies, not the original files. |
| Local System's Cached Certification Files | A cache of documents used to authenticate web site certificates. Those include certificates, Certification Revocation Lists (CRL). Cleaning this cache removes cached copies, not the original files. |
| Network Service's Cached Certification Files | A cache of documents used to authenticate web site certificates. Those include certificates, Certification Revocation Lists (CRL). Cleaning this cache removes cached copies, not the original files. |
| Local System Cached File Extensions | Cached filename extensions of file types registered by applications, some of which may be already deleted. |
| Local System Cached Shell Extensions | Cached shell extensions (added shortcut menu items added by installed applications).<br>**Attention!** When cleaning the cache, the extensions aren't removed, only their cached copies. |
| Cached WPF Fonts | Your system stores a cache of Windows Presentation Foundation fonts installed in the system.<br>Attention! When deleting and wiping this cache, you do not remove the fonts, only their cached copies. |
| Local System's Common Language Runtime Logs | Various logs created by the Common Language Runtime (CLR) component of the .Net Framework. You my view a log file by double-taping it. |
| Local System's Crash Dumps | Memory dumps of crashed applications. |
| Network Service's Crash Dumps | Crush dumps of a network service. |
| Delivery Optimization Service Cache Files | A file cache of the Delivery Optimization Service that performs content delivery optimization tasks. |
| Network Service's Diagnostics Logs | Logs created by various services and programs running under the "Network Service" account. You may view a log file by double-taping it. |
| Local System's Direct3D Shader Cache | A file cache of Direct3D Shader. |

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| Peer Networking Traces | Various traces created during peer-to-peer network connections with other computers. |
| qWAVE Cached Data | Cached data of the Quality Windows Audio/Video Experience (qWAVE) service that provides features focused on streaming multimedia and real-time content over variable bandwidth networks. |
| Local System Stored Application Descriptions | A list of application descriptions and their pats for applications that have started in the system at least once. |
| Local System Stored AutoPlay Handlers Paths | A list of applications assigned to perform some acotions automatically upon detected media files on removable storage. Some information on them may remain even when they have been removed from the system. |
| Local System Stored AutoPlay Handling Events | Events assigned by autoplay applications, which can be already removed. |
| Local System Stored Internet Explorer Shortcut Menu Extensions | A list of Internet Explorer shortcut menu commands installed by applications already removed from the system. |
| Store Install Service Database | Some data about installed UWP (Universal Windows Platform) programs and games. |
| UWP' PRI Files Scan Cache | When scanning PRI (Package Resource Indexing) files of the UWP (Universal Windows Platform) applications, the MRT (Malware Removal Tool) can cache some information about these files. |
| LSys's Web Content | Databases of the web content used by system components. |
| Local Service's Windows Search Databases | Databases created by Windows Search service to perform very fast searches |
| Local System's Windows Search Databases | Databases created by Windows Search service to perform very fast searches. |

***Aggregate Traces: More Information...***

| This part allows you to inspect and clean various multiple-part traces. Any part of these traces can be removed separately. | |
|---|---|
| System Registry Traces | Registry records of items used by system (recent system applications, etc.).<br>Empty system registry trace lists are dimmed. |
| Auxiliary Disk Traces | A tree of temporary files and logs created by various system services and programs. |
| Cryptographic Services Traces | Catalog Database Service, Key Service, and Protected Root Service create temporary and log files for troubleshooting. |
| Security Management Traces | Security Management Tools create temporary, database, and log files for troubleshooting. |
| SRU Monitoring Traces | SRU (System Resource Usage) Monitoring Service tracks the use of hardware (CPU, memory, disk, and network) and software (file handlers and modules) resources. |
| WinSAT Traces | Logs and Reports of Windows System Assessment Tool (WinSAT) that measures various performance characteristics and capabilities of |

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| | hardware it's running on and reports them as a Windows Experience Index (WEI) score. |

***Miscellaneous Traces: More Information...***

| This part allows you to inspect and clean various miscellaneous traces. | |
|---|---|
| System Temporary Files and Folders | List of temporary files and folders created by your system. |
| Cached Fonts | Your system stores a cache of fonts installed in the system.<br>Attention! When deleting and wiping this cache, you do not remove the fonts, only their cached copies. |
| Code Integrity Aggregation (Windows 10+) | Log of the Code Integrity Aggregation, a system that validates the integrity of drivers and system files every times they are loaded into the system's memory. |
| Kernel Live Dump Files | Kernel Live Dump gathers data to troubleshoot an abnormal situation but allows Windows to continue operation. |
| System Problem Reports | List of programs and services that caused problems to Windows. |
| RADAR Memory Leaks History | List of programs that may have memory leaks created by the Memory Leak Diagnoser component of Windows Resource Exhaustion Detection and Resolution (RADAR). |
| Registry Transactions History | History of Registry transactions performed by your system and applications. |
| Cached Applications Compatibility Info | Your system can create a cache of some information about compatibility of applications that run on your system, including those already removed from the system. |
| Swap Files | Areas of hard disks that Windows uses as it were physical memory. Data from any running program or system process may be written to these files.<br>To start wiping swap files, you must restart your system. You will be prompted either to restart your system to start wiping the swap files, or to delay wiping until the next restart. |
| Defragmentation List | Your system stores this list of files and folders in order to enhance the defragmentation process.<br>**Attention!** When deleting and wiping the list, you do not remove the files, only the list. |
| Prefetch Traces | Your system creates these files in order to minimize system and application startup and stores them in a cache. If you delete a prefetch file for an application, the system will create it again next time the system starts the application. |
| Background Activity Moderator Data (Windows 10+) | Your system keeps track of Background Activity Moderator, a Windows service that controls activity of background applications. |

#### 3.4.2.4 Cleaning Program Traces

You may clean various caches, logs, temporary files, recent files lists, caches, and other traces left by a number of applications.

You may also include program traces into a large wipe and clean task. Go to the **Setting a Large Wipe and Clean Task** section for details.

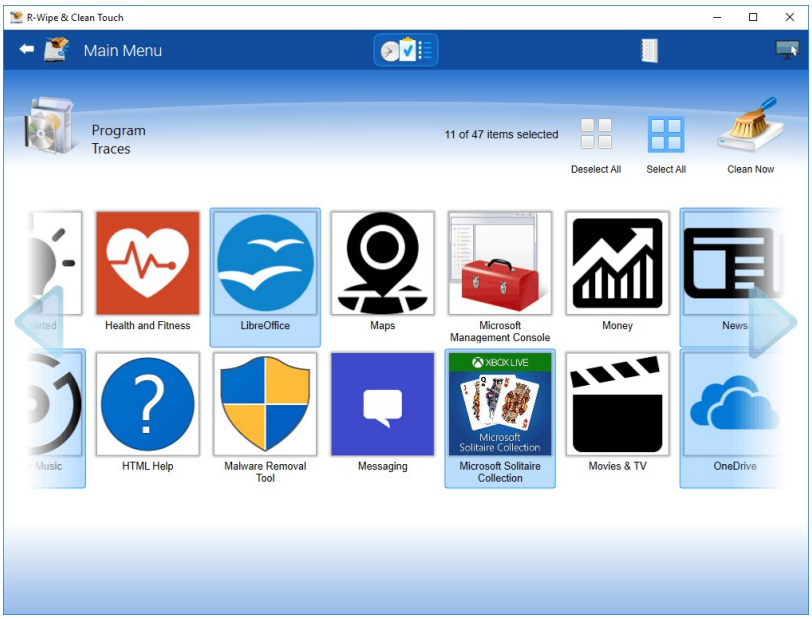
The list of items visible on the **Program Traces** panel can be edited on the **Customize** panel.

**To clean traces of the programs,**

- Select the **Program Traces** item.

The **Program Traces** panel will appear.

**Program Traces panel**




- Select the required items and tap the **Clean Now** button.

**R-Wipe & Clean** will start cleaning the computer. When **R-Wipe & Clean** finishes cleaning, the **Report** dialog box will appear showing cleaning results.

### 3.4.3 Wiping Tasks and Scheduler

You can specify a large wipe and clean task, which may include wiping free disk space, cleaning your computer from any Internet and document links, and one or several wipe lists. You may start this task immediately or set a special time/event when this task will be started automatically.

- Creating a Large Wipe and Clean Task
- Using Scheduler
- Starting Tasks from a Command Line and Shortcuts
- Importing Task from a Command Line

#### 3.4.3.1 Creating a Large Wipe and Clean Task

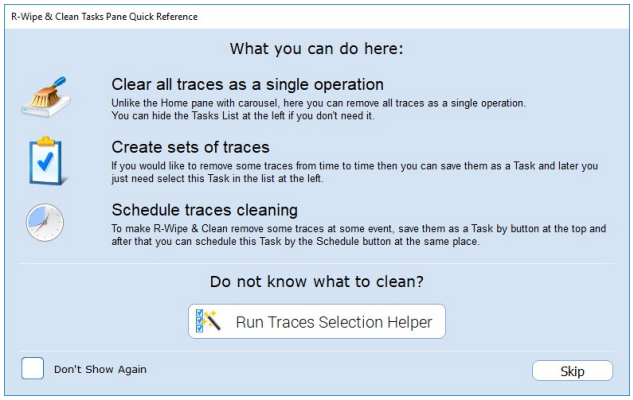
You may specify a large wipe and clean task, which may include wiping free disk space, cleaning your computer from any internet and document links, and one or several wipe lists.

**To set a large wipe and clean task,**

- On the **Main** panel, click the **Wipe & Clean Tasks** button.

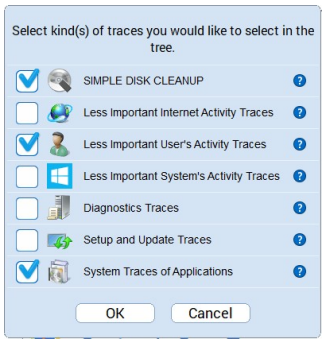
The **R-Wipe & Clean Tasks Pane Quick Reference** panel will appear.

**R-Wipe & Clean Tasks Pane Quick Reference panel**




You may either use **Traces Selection Helper** to quickly select some most common traces to include into the task, or skip it to manually specify the items to clean. If you disable this panel, you may later enable it on the **General Settings** tab of the **Settings** panel.

**Traces Selection Helper panel**




***Traces Selection Helper Items***

| | |
|---|---|
| SIMPLE DISK CLEANUP | If you want to just free up disk space then it's enough to check this item.<br>**R-Wipe & Clean** will remove all traces stored as various files (cache files, logs, temporary files, memory dumps, etc).<br>However, all traces stored in the Registry or in configuration files of various format will be left intact! |
| Less Important Internet Activity Traces | Select these traces if you worked online with some web browser or Skype.<br>Your personalized settings for webpages (cookies, saved passwords, etc) will be left intact!<br>You can remove such traces by selecting root item of the corresponding web browser or Skype on the Navigation tree.<br>In addition to web browsers and Skype, there are various applications that use Internet and keep web traces but such traces aren't to be removed here. |
| Less Important User's Activity Traces | By selecting these traces, you can remove commonly created traces for the current user even if you do nothing on this PC.<br>This will also remove the traces created by system components used in the applications.<br>For example, traces left after using Open and/or Save dialogs in some applications. |

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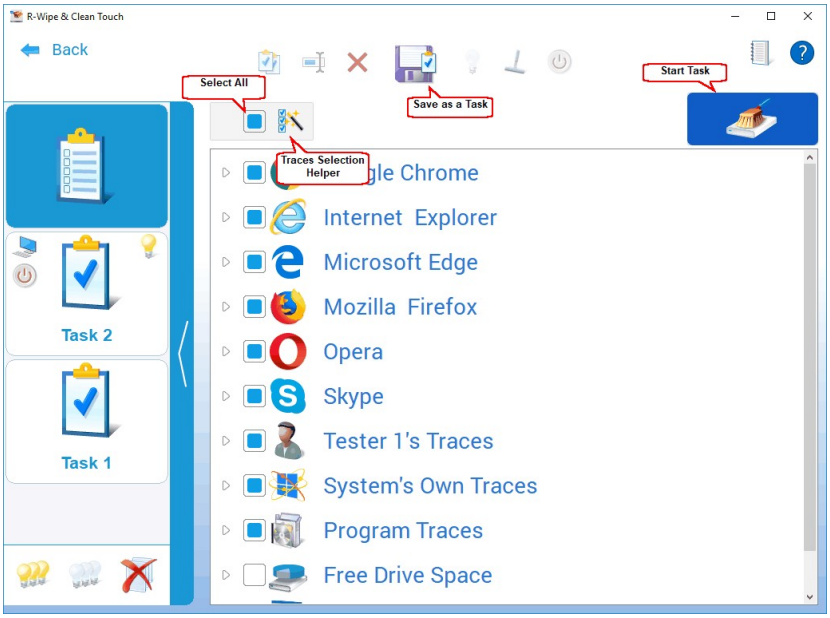
| | |
|---|---|
| Less Important System's Activity Traces | Here you can remove the traces created by the system even if you do nothing on this PC.<br>Administrative rights are required for removing these traces! |
| Diagnostics Traces | Here you can remove traces created after errors in applications or system (error reports, dump files, etc).<br>Many applications can create such traces without notifying you.<br>Removing these traces will free some space on the drive but can make it difficult to troubleshoot error issues. |
| Setup and Update Traces | Here you can remove traces created after installation your system, as well as after each of its updates.<br>Removing these traces can free large amount of disk space but can make it difficult to troubleshoot installation issues.<br>It's recommended to remove such traces after a Windows Update installation. |
| System Traces of Applications | Here you can remove the traces that can be left in the system after removing various applications.<br>It's recommended to remove such traces after removing large applications that were installed via installer. |

You may also reach the **Traces Selection Helper** on the **Task** panel

- Select the traces you want to clean and tap the **Start Task** button.

**Task panel**




**R-Wipe & Clean** will start cleaning the computer, and the **Deleting and wiping** dialog box will appear showing the cleaning progress.

When **R-Wipe & Clean** finishes wiping and cleaning, the **Report** dialog box will appear showing cleaning results.

You may save the task to run in future, either manually or using the the **Scheduler**.

**To save a large wipe and clean task,**

- Tap the **Save as a Task** button.

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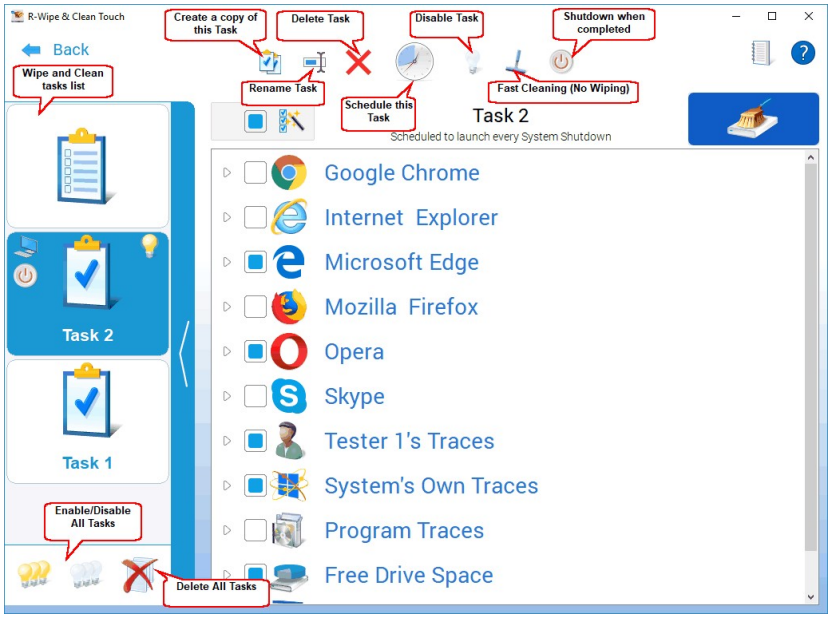
**Saved Task panel**




### *Managing Existing Wipe and Clean Tasks*

The existing tasks appear in the **Wipe and Clean tasks** list. You may modify/delete/schedule an existing task when it's selected.

***More Information...***

| | |
|---|---|
| Schedule Task | Click this button to schedule the task |
| Disable Task | Click this button to toggle task activation/deactivation. A disabled task won't be started by the scheduler, but it can be run manually. |
| Fast Cleaning | Enable this option to run the task faster. When this option is enabled, all files will be deleted rather than wiped regardless of Files Wiping Settings settings. |
| Shut down when completed | Enable this option to shutdown you computer when the task has been completed. |
| Rename Task | Click this button to rename the current task |
| Copy Task | Click this button to copy the current task to another one |
| Delete Task | Click this button to delete the current task |

**To start an existing wipe and clean task manually,**

- Select the task and then tap the **Start Task** button.

  **R-Wipe & Clean** will start cleaning the computer, and the **Deleting and wiping** dialog box will appear showing the cleaning progress. When **R-Wipe & Clean** finishes wiping and cleaning, the **Report** dialog box will appear showing cleaning results.

**To edit an existing wipe and clean task,**

- Select the required task.
- Make the necessary changes. They will be saved automatically.

**To disable/enable all existing wipe and clean tasks in the Wipe and Clean Tasks list,**

- Select **Disable/Enable All Tasks** on the **Tasks** panel.

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**To delete all existing wipe and clean tasks in the Wipe and Clean Tasks list,**

- Select **Delete All Tasks** on the **Task** panel.

**To create a copy of a task,**

- Select the required task and tap the **Copy Task** button on the **Task** panel.

#### 3.4.3.2 Using Scheduler

You may set a large wipe and clean task to run at a specified time or event. You may have several such tasks, each starting at its own time or event. You may even start such tasks from a command line.

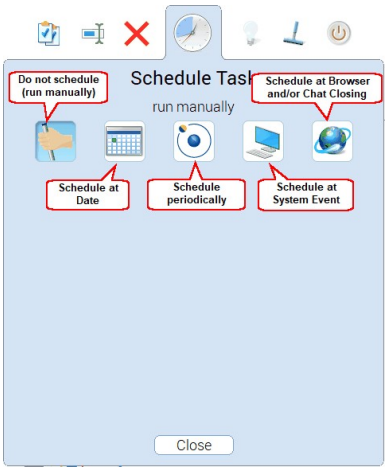
***Creating a Large Wipe and Clean Task at a Specified Time or Event***

**To schedule a new large wipe and clean task,**

- Create and save a wipe & clean task
- Tap the **Schedule Task** button.

A **Schedule Task** dialog box will appear.

**Schedule Task dialog box**




- Specify time or event at which the task will start and other task options on the **Schedule Task** dialog box, and tap the **Close** button.

***Time or event***

| Depending on the specified time or event, the fields Date and Time may change their names | | |
|---|---|---|
| Do not schedule (run manually) | The wipe and clean task will never start automatically. You may start it manually | |
| Schedule at Date | The wipe and clean task will start on a specified date at a specified time or the first system startup | |
| Schedule periodically | The wipe and clean task will start in a specified time interval: | |
| | Every Time interval | Every specified time interval (hours and minutes) |
| | Day | Every day at a specified time or the first system startup |
| | Week | Every specified weekday at a specified time or the first system startup |
| | Month | Every specified month day at a specified time or the first system startup |

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| | | |
|---|---|---|
| Schedule at System Event | The wipe and clean task will start at a specified system event | |
| | User Logon | Every user logon |
| | System Startup | Every system startup. The task will start when the first user logs on after the system startup |
| | User Logoff | Every user logoff |
| | System Shutdown | Every system shutdown. The task will start when the user logs off |
| Schedule at Browser and/or Chat Closing | At every closing a particular browser/communication program or all of them. On the Task Setting, you may add a custom program (not necessary an Internet application) to start running a scheduled task upon its closing. If such a program is added, this item changes its name to At Program closing. | |

#### 3.4.3.3 Starting Tasks from a Command Line and Shortcuts

***Starting a Large Wipe and Clean Task from a command line***

**To start an existing wipe and clean task from a command line,**

- type `rwiperun.exe /t "TaskName"`
  where `TaskName` is the name of a task to be run.

You may include this command line in any command file.

***Starting a Large Wipe and Clean Task from a desktop shortcut***

**To start an existing wipe and clean task from a desktop shortcut,**

- Create a command file with the command starting the task.
- Create a shortcut with that command file.

#### 3.4.3.4 Importing Task from a Command Line

***Importing a Wipe and Clean Task from a command line***

**To import an existing wipe and clean task from a command line,**

- type `RwcRun.exe /importtask "Filepath/TaskFile"`
  where `Filepath/TaskName` is the file path and name of a task to import.

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