SQWARQ

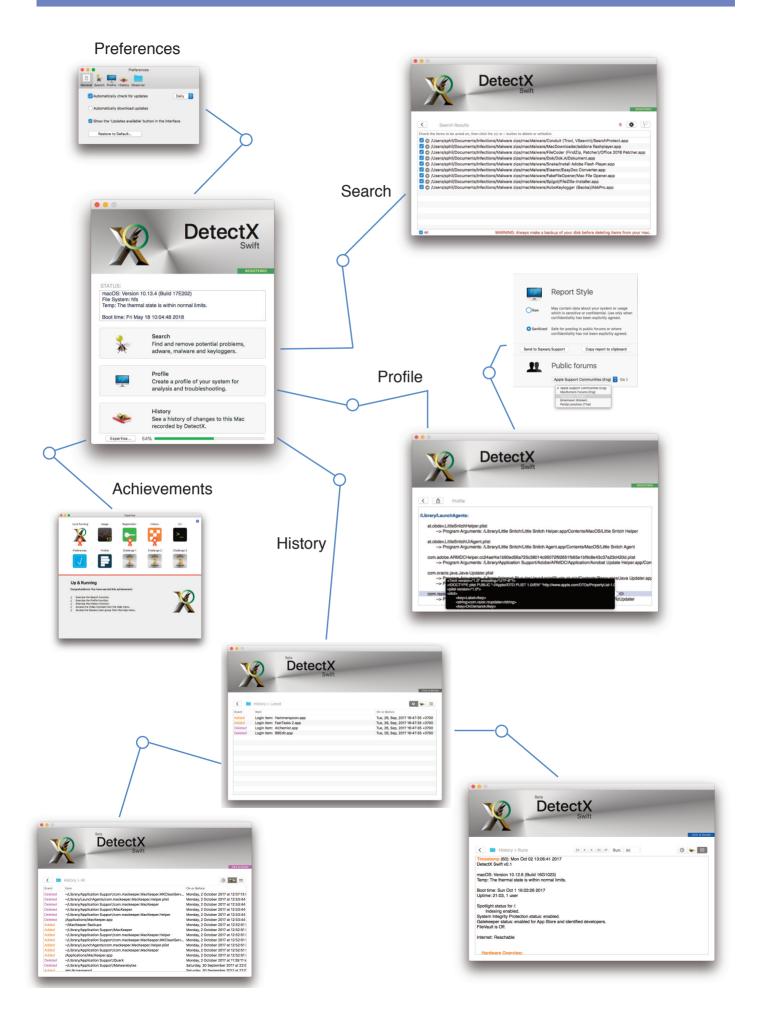


Welcome to DetectX Swift

Search and Rescue for your Mac

Quick Start





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Document Revision History

Published on 8th November, 2017. Revised on 18th January 2018. -> Corrections Revised on 25th January 2018. -> Version changes 1.02 Revised on 12th February 2018. -> Version changes 1.03 Revised on 13th February 2018. -> Version changes 1.03 Revised on 18th May 2018. -> Version changes 1.070



Overview

Why and when to use DetectX Swift, What happens when DetectX Swift launches, License Agreement, Credits & acknowledgements. **Read more**



Search

Search your mac for security threats and performance issues such as adware, malware, keyloggers and potentially unsafe or unwanted software.

Read more



Profile

Examine your mac's current state, unravel the cause of new or unexpected performance problems, and share your profile with experts for further help. **Read more**



History

Review the history of changes recorded by DetectX, examine and compare earlier profiles with the current state of the mac. **Read more**



Preferences

Reset DetectX to default settings, reset the whitelist, delete history and runs, enable or disable the Folder Observer function. **Read more**



Advanced

Achievements, AppleScript, Command Line Tool, Folder Observer Options, Network Administration. **Read more**



Appendix

System requirements, Installing, Uninstalling, What does DetectX detect? **Read more**

Index

Go

Why and when to use DetectX

Our macs are great, and out of the box they perform just as Apple designed them to.

However, as we start to use our macs to accomplish our needs, we add software to them that was not designed and tested by Apple.

Sometimes, we add software to our macs unknowingly, as a consequence of some other action we took.

And sometimes, one or more of these additions causes our macs to behave in ways that we neither want nor welcome.



When this occurs, DetectX Swift's job is to help you, ourselves (if you should choose to contact us for help), or any other technical adviser you consult, to determine what happened to your mac and to fix it.

However, you should not wait for trouble to start before using DetectX Swift. DetectX Swift's troubleshooting capabilities are enhanced by the history of changes that it records over time, so running DetectX Swift on a regular basis - at least once a week - is good troubleshooting practice.

DetectX can identify and remove malware

DetectX Swift is both a security tool and an analytical tool. It contains a rich set of features to help remedy problems including:

- browsers being redirected to sites you did not intend to visit
- loss of data due to privacy invasions by malware
- slow response times (typically indicated by the spinning color wheel)
- sudden application or system crashes

In order to help identify the cause of such problems, DetectX has three main functions, which correspond to its three main views, Search, Profile and History,

accessible through the main interface or the menu bar. Subsequent sections of this guide will cover those in detail.

IMPORTANT: Please read the <u>Licensing Agreement</u> before using DetectX Swift.

What happens when DetectX Swift launches

On launch, DetectX Swift first runs the Search function and then the Profile function before returning control to the user.

In the event that DetectX Swift recognises an issue, the user is presented with the Search results table. Otherwise, a dialog sheet appears informing the user that no threats or issues were found (Fig.1).

The Status field reflects the results of the preceding action (Fig. 2). Initially, the Status information will use a dark text color. After certain events or a certain time period, the text may change to a lighter shade to indicate that the information is stale and may not represent the current status.

The information in the Status field can be refreshed by exercising any of DetectX Swift's main functions.

After launching DetectX Swift, you will often see a small yellow triangle with a number adjacent to it (Fig. 3). This indicates that the displayed number of changes have occurred since the last run. You can review the changes by clicking the History button. See the History section for more details.

Occasionally, you may be presented with a dialog box from DetectX Swift even when it is not running (Fig. 4). This is the Folder Observer function (see the Advanced section for more details). The function can be controlled in the application's Preferences.

X	DetectX Swift Search complete. No threats or problems found.	
_		EGISTERE
STATUS:		
	Fig. 1	
	-	
	Cli	ck to Dona
Temp: The the	on 10.12.6 (Build 16G1023) rmal state is within normal limits. n Oct 1 16:03:26 2017	







7

SEARCH

The Search function will search your mac for known threats at the following times:

- i. When you launch the app
- ii. After deleting any item found in a search
- iii. When you manually click the 'Search' button in the main interface
- iv. After resetting the whitelist in the Preferences panel

There are three possible results from running a search:

I. NOTHING IS FOUND

Click the 'OK' button to dismiss the dialog and continue using the program.



II. THE RESULTS TABLE IS POPULATED

Use the checkboxes \checkmark to select or deselect items.

Delete (S) or whitelist (C) your selected items.

Reveal an item in the Finder 🕤

<	Search Res	ults			
roblem fil	es:				
🔽 🔘 /Lil	orary/Launch/	Agents/com.rate	less.kp.plist		
🗹 🔘 /Lil	orary/rateless	.kp			
🛛 🔘 /Us	sers/sphil/Libr	rary/Application	Support/update	r_mcy	

III. THE RESULTS TABLE IS EMPTY

You have previously whitelisted all the items found in the search.

Click the < button to return to the main interface.

Open the Preferences panel to view, reset or report the whitelisted items.

 Search Results: 3 items are whitelisted. 	0
Issues:	

PROFILE

The Profile function is run at the following times:

- i. When you launch the app
- ii. Whenever you delete an item in the Search results
- iii. When you manually click the 'Profile' button in the main interface
- iv. When you manually click the 'Refresh' button in the Profile view

The Profile function creates a snapshot of your mac and saves it in DetectX Swift's History view. However, viewing the snapshot in the Profile view allows you to investigate the snapshot dynamically in a number of ways. <u>Watch the 1-minute video</u>

When you move the cursor inside the view, you will notice the dynamic highlighting, which reveals different buttons depending on what line the cursor hovers over.

Hardware Overview

Model Name: iMac Model Identifier: iMac15,1 Processor Name: Intel Core i5

NAVIGATION BUTTON

The Navigation button appears on any line that contains a section heading (indicated by **bolded**, **blue text**).

Clicking it reveals the navigation menu (shown opposite).

Clicking an item in the menu jumps the Profile view to that section.



OPEN BUTTON [∞]	om.tunnelbear.mac.tbeard.plist >> Program:/Library/PrivilegedHelperTools/com.tunnelbear.mac.tbeard> Program Arguments: /Library/PrivilegedHelperTools/com.tunnelbear.mac.tbeard
The Open button appears on any line that contains:	Clicking it:
A complete filepath that exists* A plist program argument that exists A folder that has child items	reveals the item in the Finder
The User Login Items section The Sharing Preferences section	launches System Preferences and opens the appropriate pane

*except items listed under 'Running Processes'

0

PROFILE (Cont'd)

QUICK LOOK BUTTON

The Quick Look button appears on any line that shows

1. .plist, .sh, .bashrc, .py, .lua extension, or is a crontab, rc.*, bash_profile, bash_history, zprofile or zshrc file.

Clicking the button reveals the file's contents. You can search, select and copy directly from the Quick Look view.

2. a folder item containing children.

Clicking the button shows a recursive list of the folder's contents, including all subfolders, along with a file count in the top left corner.

The Quick Look function is limited to displaying 10,000 items.





REFRESH BUTTON

The Refresh button only appears on the top line of the Profile view.

Clicking it causes the Profile function to run.



UNLOAD PROCESS BUTTON

The Unload Process button appears in the User & System Launchd Processes sections for non-essential

processes.

Clicking it offers the user the option to remove the process from launchctl.



HISTORY

The History view appears when you click the History button in the main interface.

- i. The RECENT HISTORY view show changes since DetectX Swift last ran
- ii. The ALL HISTORY view shows all History ever recorded by DetectX Swift
- iii. The RUNS view allows you to inspect individual runs and to run a diff on any selected run and the most recent run.

CHANGES INDICATOR

After launching DetectX Swift, running a search or profile, you will often see a small yellow triangle with a number adjacent to it.

This indicates that the displayed number of changes have occurred since DetectX's last run. You can review the changes by clicking the History button.



History See a history of change recorded by DetectX.

RECENT HISTORY

Click the first button on the tab-switcher.

This view show changes since launch.

Double-click an item to reveal it in the Finder (if it exists).

Control-click on the table to copy the data to the clipboard.

ALL HISTORY

Click the second button on the tab-switcher.

This view shows all changes recorded by DetectX Swift.

Double-click an item to reveal it in the Finder.

Control-click on the table to copy the data to the clipboard.





HISTORY (Cont'd)

RUNS

Click the third button on the tab-switcher.

This view allows you to search through individual runs recorded by DetectX Swift.

The centre console buttons allows you to move through the runs, or you can type a run number directly into the Run field.

Click inside the view and use 'Command F' to search the run currently in view.

Note that the Profile view's dynamic highlighter is not available in the History Runs view.





DIFF

The right-most button on the centre console runs a *diff* or differences scan, comparing line by line the run currently in view with the most recent run.

The top section of the *diff* shows lines that are in the most recent run but which do not appear in the earlier run. These are marked by a >.

The lower section of the diff shows lines that are in the earlier run but which do not appear in the most recent run. These are marked by a <.

User and System Launchd processes may often appear in both, but with different PIDs.

The *diff* excludes the Running Processes section of the run, since these will likely all have different PIDs, the information would not be helpful.



PREFERENCES

The **Preferences pane** opens when you choose the *Preferences* menu item from the application menu or when you use the keyboard shortcut <u>command</u>,

GENERAL

MANAGING UPDATES

Check `Automatically check for updates` and uncheck `Automatically download updates` if you want to be notified when updates are available and be given the option to manually download them. Set a period for the check (Hourly, Daily, Weekly, Monthly) as required. The default is `Daily`.

Uncheck BOTH boxes if you wish to manage updates entirely manually.

Check BOTH boxes and set a period (Hourly, Daily, Weekly, Monthly) if you wish DetectX Swift to check for and install updates silently without displaying an interface to the user.

When both options are checked, available updates are downloaded in the background and applied when the user quits the app.

Show the 'Updates Available' button in the interface

On by default, this preference alerts you when an update is available by presenting a button in the main interface. Clicking the button downloads the update.

Uncheck the preference if you do not want to see the update button in the interface.

RESTORE TO DEFAULT

Click the button to restore DetectX Swift to factory defaults. A confirmation dialog appears when you do this.







SEARCH

Currently, the Search preferences only control the Whitelist function.

Use the Report... button to report items to Sqwarq Support if you believe they are false positives.

Use the Reset... button to remove items previously whitelisted. This will result in a Search function starting and any of the (previously) whitelisted items found will be reported in the Search results.

•••	Preferences	
	🕎 🔶 💼	
General Search	Profile History Observer	
Whitelist		
Report		
Reset		
Reset		

PROFILE

There are currently no preferences available for the Profile function. This will likely change in the future.

HISTORY

Click the Delete History button to remove DetectX Swift's record of changes to the mac.

Click the Delete Runs button to remove all the previous runs saved by DetectX Swift.

If you only wish to remove some runs to save space, you can delete individual run files manually from the Runs folder in the app's Application Support folder.

You can access DetectX Swift's Application Support folder easily by clicking the blue folder icon in any of the History views.





PREFERENCES (Cont'd)

OBSERVER

FOLDER OBSERVER

On by default, the Folder Observer alerts you when changes are made to any of your Launch folders even if DetectX Swift is not running.

There are by default two launch folders in the local domain, /Library/LaunchDaemons and /Library/LaunchAgents. Property list files in these folders execute certain Apple and 3rd party programs when the Mac is powered on. Since these programs are run before the user logs in, they are a favourite place for malware, adware and other unwanted programs to place files in order to achieve persistence across reboots.

Additionally, each user on the mac may have a ~/Library/LaunchAgents folder which similarly runs programs when that user logs in but before the user takes control of the Desktop.

By enabling this preference, DetectX Swift can alert you when a program or application attempts to achieve persistence by placing an item in a Launch folder.

Uncheck the preference if you do not want these alerts.

IGNORE KEYWORDS

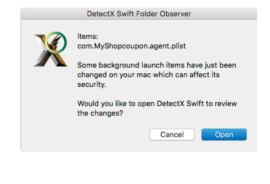
Registered users can specify key words to be ignored by the Folder observer action.

This allows you to stop the alert being thrown when items whose file name contains the key word is added or removed from one of the Launch folders.

Check the box, then click the 'Edit' button. Each contiguous key word or phrase should be comma-separated (*com.sqwarq, DetectX Swift*,).

Click the 'OK' button to finish editing.





words arated list	com.Sqwarq, DetectX Swift,
irated list	
sers can vords to be ne Folder ion. OK	

ADVANCED

ACHIEVEMENTS

Achievements help you to learn more about macOS security and how to troubleshoot your Mac with DetectX Swift.

As you complete more tasks, your Expertise level increases.

You can access the Achievements pane by clicking the 'Expertise' button at the bottom of the main user interface.

There are at total of 10 Achievements, including three optional Security Challenges which will be made available in a forthcoming update.

Each Achievement has a number of tasks, and each Achievement contributes 10% of the Expertise score shown in the main interface.

Completed tasks are marked with a $\sqrt{}$, and completed Achievements are marked with a rosette.

Notes

1. Some achievements and tasks are not available to unregistered users.

2. Achievements are only available if your Mac is on macOS 10.12 or higher.





R

APPLESCRIPT

You can control certain features of DetectX Swift via AppleScript.

As DetectX Swift by default executes a search and runs the Profile function on launch, you may wish to turn on QuietLaunch when scripting.

QuietLaunch can be turned on and off at the beginning and end of your AppleScript with a **do shell script** command:



do shell script "defaults write com.sqwarq.DetectX-Swift QuietLaunch -boolean true"
 tell application "DetectX Swift"
 -- scripting commands
end tell
do shell script "defaults write com.sqwarq.DetectX-Swift QuietLaunch -boolean false"

As the name suggests, when QuietLaunch is enabled, DetectX Swift will launch without running any operations.

With AppleScript, you can run a search and have the results returned to your script, run a diff on any two runs, and get information about the recorded history.

Several example scripts are provided in the ~/Library/Application Support/com.sqwarq.DetectX-Swift/Example Scripts/ support folder.

Note that you should copy these scripts and save them to another location if you intend to modify them for your own use, as DetectX Swift reserves the right to replace, update or add items to the Example Scripts folder and the scripts contained therein at a future time.

For more details about DetectX Swift's AppleScript support, consult the DetectX Swift Terminology Suite in your script editor's Dictionary viewer.

If you would like to see further elements of DetectX Swift exposed to AppleScript, please file an Enhancement Request at support@sqwarq.com.

COMMAND LINE TOOL

DetectX Swift comes with the ability to run searches from the command line. This feature is enabled only for the first 20 days after install and 20 days after applying a Home use registration key.

Unlimited access to the command line tool requires a **Pro** or **Management** license. For *Home* registration and unregistered users, this feature is enabled only for the first 20 days after install and 20 days after applying a *Home* use registration key.

Pro and **Management** licenses can be purchased via the 'Other' button in the Registration window, or by contacting Sqwarq support directly.



BASIC SEARCH

To use the CLI search, specify the full path to the app executable. For example, if the app is in /Applications folder, execute this on the command line:

/Applications/DetectX\ Swift.app/Contents/MacOS/DetectX\ Swift search

Alternatively, cd into the MacOS folder first with

cd '/Applications/DetectX Swift.app/Contents/MacOS'

then execute

./DetectX\ Swift search

This command searches both the computer and the current user's home directory.

SEARCH OTHER USERS

Probably the most important benefit of searching from the command line is the ability to search all, or selected, other users. Search all users by using sudo and the **-a** option:

sudo <path to detectx executable> search -a

To restrict the search to one or more users, the -u option accepts a list of shortuser names (comma-delimited):

sudo <path to detectx executable> search -u alice,bob

VERBOSE OUTPUT

For more verbose output, including how long the search took, try either the vsearch or vvvv commands, which give increasingly more detail:

```
sudo <path to detectx executable> vsearch -a
sudo <path to detectx executable> vvvv -a
```

SAVE TO FILE

A path can be given to write the results to file, either in regular text:

```
sudo <path to detectx executable> vvvv -a ~/Desktop/searchtest.txt
```



"product" - a string showing the name of the software package that produced the JSON output.

"registered" - a boolean value showing **true** if the command line tool is registered with a Pro or Management license and **false** otherwise.

Note that even if the product is registered in the User interface with a Home registration key, it will still show as **false** in the command line tool.

"version" - a string displaying the version number of the product when the search was run.

"searchdate" - a string in unix dateformat giving the date and time of the search, including GMT offset in hours.

"duration" - a floating point integer of how long the search took to complete, in seconds.

"spotlightindexing" - a boolean value showing whether spotlight indexing is enabled on the system startup disk. Part of DetectX Swift's search heuristics leverage Spotlight's metadata indexing. If this bool is false, it may lead to fewer results.

"issues" - an array of strings to paths that DetectX Swift has detected as requiring review. Note that the command line tool ignores any user whitelisting preferences. Paths shown under issues are always paths to 3rd party files and can be removed at the user's discretion.

"infections" - an array of strings showing the name of any found malware infections. These are not paths, as the malware may in fact not be entirely path-based, and/or may have altered otherwise benign or necessary files.

Removal of malware infections should be carried out by professionals.

REGISTER

This command is required in order to register a **Pro** or **Management** license. This command must be run as root or as a sudo user. The syntax is

```
sudo <path to detectx executable> register -key GAWAE-ARQ1F-BZ...-FQQ2Z -email
bob@email.com
```

The values for -key and -email must be those shown in the order fulfilment email received after purchasing a **Pro** or **Management** license.

STATUS

This command returns the registration status for using the CLI tool. Note that for registered Home users, it will return 'unregistered', since the CLI tool requires a **Pro** or **Management** license

со	MMANDS	
	help register scan search	print usage and examples to stdout apply Pro or Management registration details, requires sudo [Deprecated] a synonym for "search" initiate a search
	status	return the registration status for using the CLI tool
	version vsearch unregister	print version to staout initiate a search with verbose logging output remove registration details, requires sudo

<path to detectx executable> status

UNREGISTER

This command can be used to remove a license key for all users on the mac. This command must be run as root or as a sudo user. The syntax is

sudo <path to detectx executable> unregister

The command will remove all classes of licenses: Home, Pro & Management on the mac.

Help

The help command will output the documentation to the command line.

FOLDER OBSERVER OPTIONS

There are 4 customization options available to **Pro & Management** license holders for the Folder Observer alert: *title*, *icon*, *body message* and the dialog *confirm* button.

defaults write com.sqwarq.DetectX-Swift ObserverTitle "Custom Title" defaults write com.sqwarq.DetectX-Swift ObserverMessage "Here's a custom message from your Administrator, with our preferred icon.\n\nAnd we'd also like to point out the custom button text, too." defaults write com.sqwarq.DetectX-Swift ObserverButton "Show Me" defaults write com.sqwarq.DetectX-Swift ObserverIcon "/Applications/Disk Inspector.app/Contents/Resources/Applcon.icns"

These preference settings are ignored for Home and Unregistered users.



DEFAULT

CUSTOMIZABLE AREAS

To reset to default, remove the preference:

defaults remove com.sqwarq.DetectX-Swift ObserverIcon defaults remove com.sqwarq.DetectX-Swift ObserverTitle defaults remove com.sqwarq.DetectX-Swift ObserverButton defaults remove com.sqwarq.DetectX-Swift ObserverMessage

NETWORK ADMINISTRATION

DetectX Swift users with **Pro** or **Management** licenses can integrate search, updates and registration functions directly with Jamf Pro and Munki as well as apply managed preferences using config Profiles. If you need help setting that up on your network, please contact Sqwarq support.

APPENDIX

System Requirements

DetectX Swift requires macOS 10.11 or higher.

INSTALLATION

First download DetectX Swift from the <u>Sqwarq.com</u> website.

If the app is packaged as a .zip file, drag the unzipped application from the Downloads folder to the Applications folder.

If the app is packaged as a .dmg file, double-click the **DetectX Swift** disk image and choose whether to accept the license conditions. If you agree, the disk image will appear in the Finder sidebar.

From within the disk image, drag the DetectX Swift.app icon directly to another location within the Finder, preferably the Applications folder.

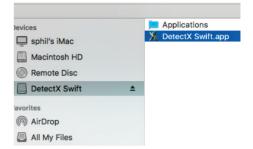
TROUBLESHOOTING INSTALLATION ISSUES

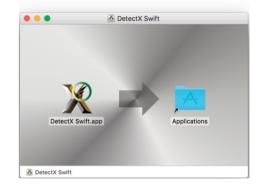
Watch the 1-minute video on how to successfully install DetectX Swift...

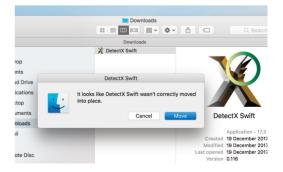
Due to security changes made by Apple in macOS 10.12 and later, it can sometimes occur that an app is not running from the location that you have saved it in.

Even correctly signed and legitimate applications are initially quarantined by Gatekeeper, and the quarantine flag is only removed when the app is dragged to a different location within the Finder from its original download location (refer to Apple documentation on *Gatekeeper Path Randomization* and *AppTranslocation* for further details).

As a result, if during installation or updating you are presented with a dialog insisting that DetectX Swift needs to move, click the 'Move' button and select the source and destination. 'Move' will allow you to select anywhere writable, including the current location (i.e, the source and destination can be the same) and DetectX will clear the quarantine flag.







UNINSTALLING

Uninstalling DetectX Swift is a simple, two-step process.

Watch the uninstall video...

1. Launch the app, and from the DetectX Swift menu choose 'Uninstall...'. Press return to confirm.

2. Quit the app and drag it to the Trash.

This will uninstall all supporting components including the Folder Observer launch agent, if enabled.

Note that uninstalling the app and its components does not remove a purchased license key. Use the unregister command on the command line to do that (see the 'Command Line Tool' entry in the Advanced section in this guide).

DetectX Swift Fil	e Edit	Format	View	Window
About DetectX Sw	ift			
Preferences	Ж,			
Check for Updates Registration Services	5 ►			
Uninstall				
Hide DetectX Swif	t ೫ H			
Hide Others	∖СЖН			
Show All				
Quit DetectX Swift	t #Q			

WHAT DOES DETECTX DETECT? The latest version of this document can be found <u>online</u>.

It is important to remember that DetectX Swift is a troubleshooting tool for your Mac, and not just a malware or adware scanner. DetectX Swift uses a four-fold classification system. Where an issue falls under more than one category, the search labels it according to the highest category it belongs to (where 1 is the least worrisome and 4 is the most):

- 1. Potentially destabilising software (PDS)
- 2. Potentially unwanted software (PUS)
- 3. Adware (ADW)
- 4. Malware (MAL)

1. POTENTIALLY DESTABILISING SOFTWARE (PDS)

Items found by DetectX Swift labelled as Potentially Destabilising Software (**PDS**) include perfectly legitimate commercial applications, which may nevertheless cause the Mac or other software on the Mac to perform unexpectedly, poorly or even render the Mac unbootable under certain conditions.

These programs typically offer to remove or delete system files and caches, or to alter or remove application binaries under the claim that they will improve performance or 'clean' junk files.

While such operations can sometimes be performed without detriment, that is not always the case. Other applications may behave unexpectedly or not launch at all after being 'cleaned' by a **PDS.** For example, 'cutting' localisation (i.e., 'foreign language') binaries, deleting invisible licensing files or other required resources can all destabilise an otherwise functioning program or system service.

PDS vendors often claim their products can "speed up" or "clean" a Mac by removing caches, whereas the reality is that regularly purging caches does exactly the opposite (the whole purpose of a cache is to make loading frequently needed data faster).

Of course, sometimes caches do become corrupt or bloated, and users can sometimes be impressed with what appears to be a performance improvement after using a **PDS**. However, this is rather like improving an underperforming football team by selling the entire squad of players rather than trying to identify the specific outfielders (or is it the coach?) that are responsible for the problem.

Rather than taking a blanket 'shotgun' approach to troubleshooting, users are far better served by taking an analytical approach to discover the true cause of any poor performance problems. DetectX Swift's Search, Profiler, and History functions are designed to do exactly this. If you need expert help analysing the data provided by DetectX Swift, registered users may contact Sqwarq support for a free consultation.

The **PDS** category also includes applications found by DetectX Swift that are inherently inefficient, such as using excessive system resources to perform what should otherwise be light resource task.

Issue flag:

When DetectX Swift identifies apps that fall solely within this category it will flag them as PDS (note: issue flagging is not available in v1.0x of DetectX Swift, but will be arriving in a future update).

2. POTENTIALLY UNWANTED SOFTWARE (PUS)

Whereas **PUS** items may only be destabilising in certain circumstances or when used in a certain way, items found by DetectX Swift within the **PUS** category are more consistently detrimental or a nuisance to the user.

Applications that use excessive and/or unethical marketing practices to encourage users to install either the application itself or auxiliary applications that the user may not explicitly desire are consider **PUS** by DetectX Swift. Such applications may also use excessive popups and nags to encourage users to pay premium rates for actions that can often be performed natively on the Mac or which are widely available for free or as open source software by other more reputable vendors.

PUS applications may, in some cases, expose user information to unknown or unauthorised parties, and/or perform unexpected actions.

APPENDIX (Cont'd)

Issue flag:

When DetectX Swift identifies apps that fall into this category it will flag them as **PUS** unless they also fall into a higher category *(note: issue flagging is not available in v1.0 of DetectX Swift, but will be arriving in a future update*).

3. ADWARE (ADW)

This category includes applications, processes and files found by DetectX Swift which attempt to inject advertising into web pages, and/or redirect browser searches to sites the user had no intention of visiting in order to generate advertising revenue. **ADW** also includes software that uses excessively intrusive advertising techniques and fear-based marketing strategies.

Issue flag:

When DetectX Swift identifies items that fall into this category it will flag them as ADW unless they also fall into a higher category (*note: issue flagging is not available in v1.0x of DetectX Swift, but will be arriving in a future update*).

4. MALWARE (MAL)

This category includes anything found by DetectX Swift that compromises the user's security or acts to harm the interests of the user. Typically this includes RATS, DNS changers, Ransomware, Trojans and Viruses among others.

The MAL category also includes keyloggers. Although some keylogger developers may argue that their software has genuine uses similar to parental controls or user account management software, we find the surreptitious and deceptive nature of keyloggers to fall well within our definition of malware as stated in the previous paragraph.

Parental control and user account management tools work best when the user is aware of the restrictions or limitations imposed on their use of resources managed or owned by others. Moreover, in our view, ethical software does not attempt to capture or exfiltrate a user's personal data covertly.

Issue flag:

When DetectX Swift identifies items that fall into this category it will flag them as MAL (note: issue flagging is not available in v1.0x of DetectX Swift, but will be arriving in a future update).

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