



CHECKMARK CERTIFIED

Client: ASR

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Product: Advanced System Repair Pro

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Windows 10

Patch1809

Remediation

TEST REPORT



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## Introduction

In October, Microsoft released its newest update for Windows 10 – patch 1809. Included within this patch were a number of bugs that would, in turn, introduce various faults to the host OS.

While the faults vary from system to system, due to the seemingly infinite variations of endpoint configurations, software installations, and versions, there were several that were common among many users.

Advanced System Repair Pro (ASR) includes a number of tools that allow users to fix many of these faults. Using patch 1809 as an example, Checkmark Certified looked at how ASR can help combat problematic updates as and when they occur.

## Test Overview

In order to conduct testing, a machine was built to meet the specification most commonly reported on with regards to faults in the 1809 patch.

A pre-October version of Windows 10 was installed and automatic Windows updates disabled, so as to control which updates were installed and when.

Scans, using ASR, were conducted before and after the installation of patch 1809 so as to eliminate existing faults detected by ASR that were not directly attributable to patch 1809. A series of benchmarks were also taken pre and post installation to determine what changes were made that introduced anomalous behaviour.

## TEST OUTCOME

Advanced System Repair Pro, through the provision of a variety of toolsets, was able to mitigate the impact of faults that were introduced to the system as a result of the recent Windows 10 1809 patch.

While not all associated bugs can be fixed, such as the widely reported document deletion, many can and were. Moreover, as fixes are made available through current and future hotfixes, having a central application, such as ASR, for tracking and applying these to the system is massively advantageous. As is the ability to select what fixes should be conducted.

## Test Results

### TC01 - System Security

One of the major areas for consideration with this, or any other, update is the introduction of vulnerabilities as a direct result of installation. Through the Security Holes functionality, ASR scans the system for the vulnerabilities and checks for available OS patches on the Microsoft servers.



The screenshot displays the Advanced System Repair Pro interface. The top navigation bar includes 'Menu', 'Statistics', 'Notifications', and 'Support'. The main content area is divided into three sections: 'Scan done', 'Security holes', and 'Vulnerabilities detected (3)'. The 'Scan done' section lists various system checks with their respective counts or statuses:

Category	Count/Status
Gathering System Data	✓
Privacy Traces	2755
Junk Files	4.09 GB
Startup Optimizer	1
Registry Entries	23
System Optimizations	14
Security Holes	3
Driver Updates	0
Malware Threats	0
Disk Defragmenter	0
Corrupted Files and Errors	10

The 'Security holes' section features a laptop icon and a descriptive text: 'Vulnerability fix can detect the security holes in your system. Advanced System Repair Pro will download fixes direct from Microsoft server then fix them. These important updates can help prevent or fix issues, improve how your computer works, or enhance your computing experience.' A 'Show less details' checkbox is present.

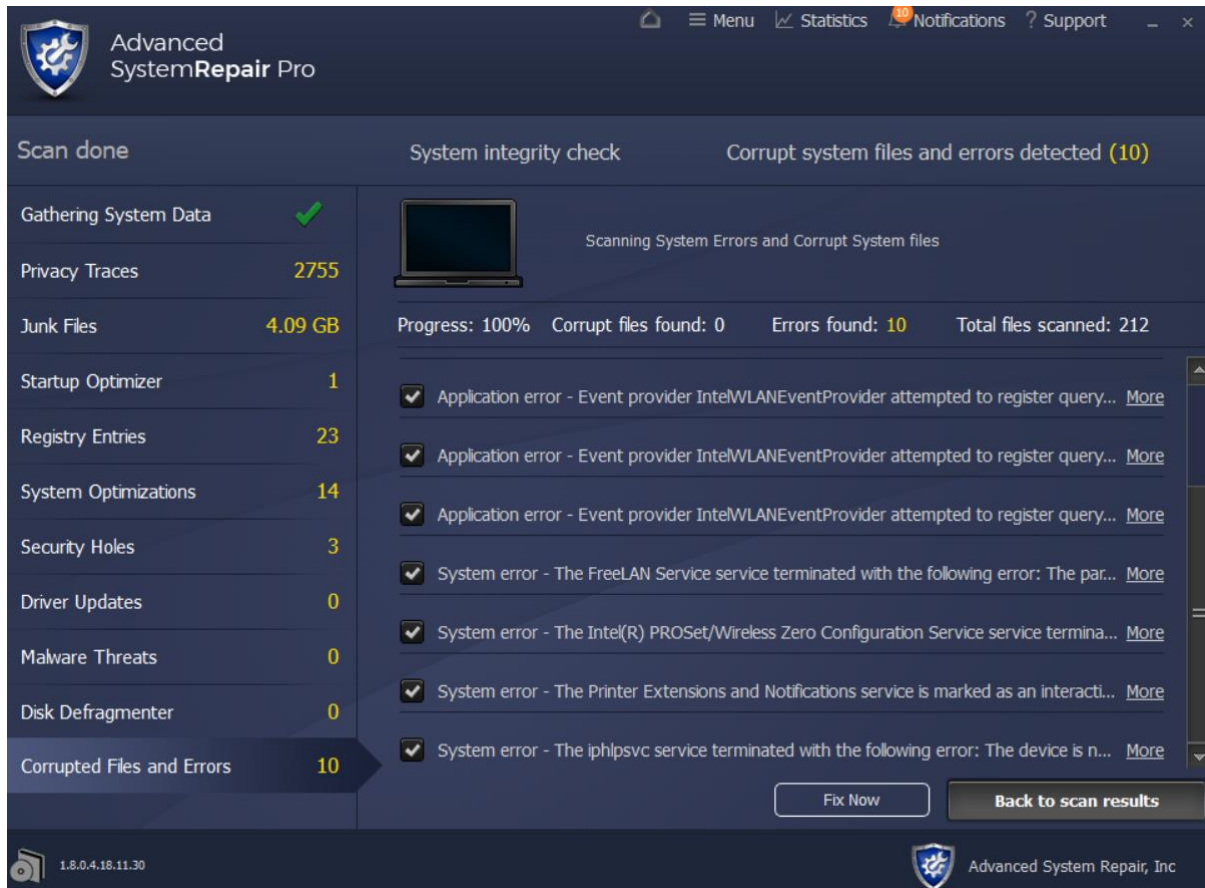
The 'Vulnerabilities detected (3)' section lists three updates, each with a checkmark in a box:

- Update for Adobe Flash Player for Windows 10 Version 1809 for x64-based Systems (KB44629...)
- 2018-12 Security Update for Adobe Flash Player for Windows 10 Version 1809 for x64-based S...
- 2018-12 Cumulative Update for .NET Framework 3.5 and 4.7.2 for Windows 10 Version 1809 f...

At the bottom right, there are two buttons: 'Fix Now' and 'Back to scan results'. The footer shows the version '1.8.0.4.18.11.30' and the company name 'Advanced System Repair, Inc.' with its logo.

## TC02 – System and File Corruption

One of the most common faults attributed to patch 1809 is a clash with specific versions of various Intel drivers and software. Compatibility issues are not unique to this scenario and ASR provides a means to fix these through both its own tools and a 3<sup>rd</sup> party device driver application.



The screenshot displays the Advanced System Repair Pro interface. The main window shows the results of a system scan. On the left, a sidebar lists various system components with their respective counts or statuses. The main area displays the 'System integrity check' results, indicating that 10 corrupt system files and errors were detected. The progress bar shows 100% completion. Below the progress bar, a list of errors is shown, each with a checkmark and a 'More' link. At the bottom, there are buttons for 'Fix Now' and 'Back to scan results'.

Component	Status/Count
Gathering System Data	✓
Privacy Traces	2755
Junk Files	4.09 GB
Startup Optimizer	1
Registry Entries	23
System Optimizations	14
Security Holes	3
Driver Updates	0
Malware Threats	0
Disk Defragmenter	0
Corrupted Files and Errors	10

System integrity check: Scanning System Errors and Corrupt System files

Progress: 100% | Corrupt files found: 0 | Errors found: 10 | Total files scanned: 212

- Application error - Event provider IntelWLANEventProvider attempted to register query... [More](#)
- Application error - Event provider IntelWLANEventProvider attempted to register query... [More](#)
- Application error - Event provider IntelWLANEventProvider attempted to register query... [More](#)
- System error - The FreeLAN Service service terminated with the following error: The par... [More](#)
- System error - The Intel(R) PROSet/Wireless Zero Configuration Service service termina... [More](#)
- System error - The Printer Extensions and Notifications service is marked as an interact... [More](#)
- System error - The iphlpvc service terminated with the following error: The device is n... [More](#)

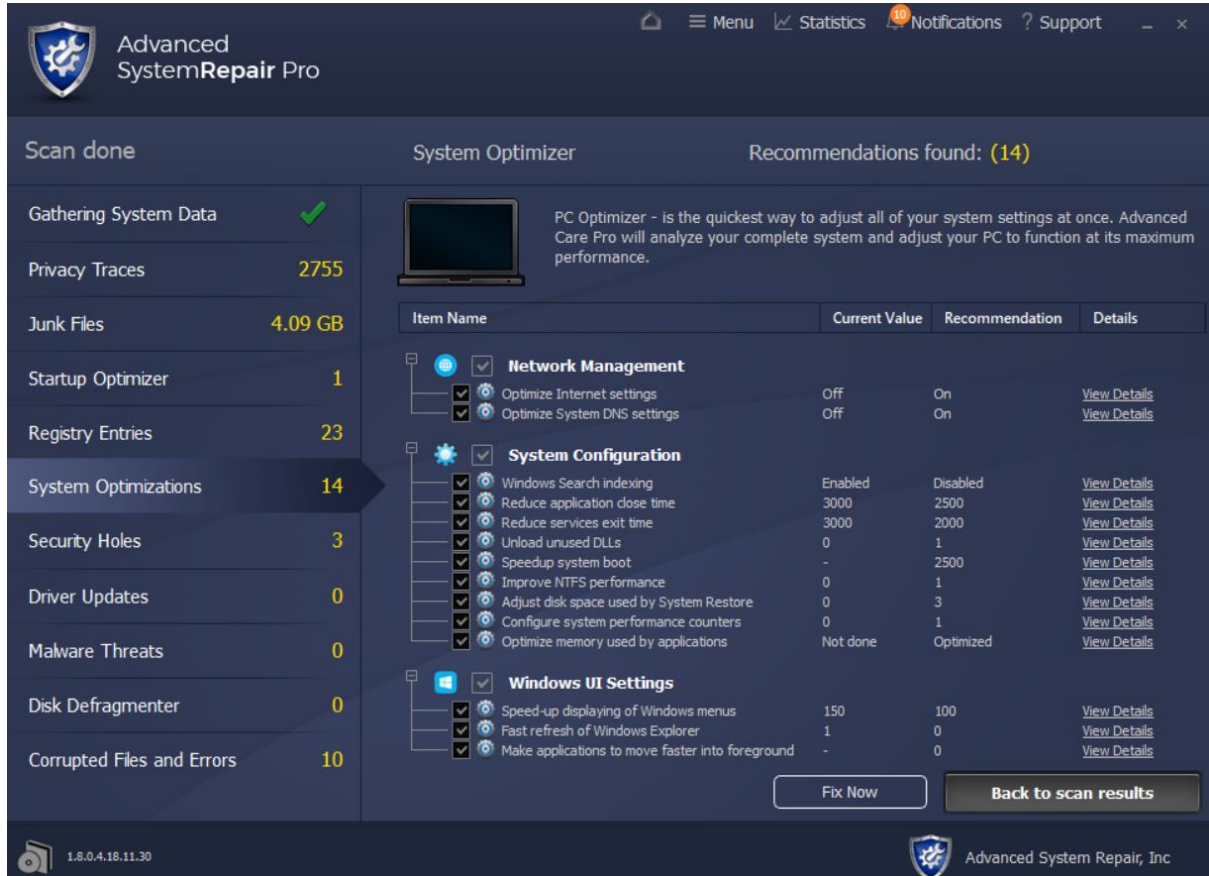
Buttons: Fix Now, Back to scan results

Version: 1.8.0.4.18.11.30 | Advanced System Repair, Inc.

## TC03 - System Performance

Every additional piece of software installed on a system has the potential to increase the drain on system resources, whether as a result of an update or through full installation of a new application.

ASR provides a means to identify where a system can be optimised, not just in reboot times but also in terms of real overhead reduction.



The screenshot displays the 'Advanced System Repair Pro' interface. On the left, a 'Scan done' sidebar lists various system checks with their counts: Gathering System Data (checked), Privacy Traces (2755), Junk Files (4.09 GB), Startup Optimizer (1), Registry Entries (23), System Optimizations (14), Security Holes (3), Driver Updates (0), Malware Threats (0), Disk Defragmenter (0), and Corrupted Files and Errors (10). The main area is titled 'System Optimizer' and shows 'Recommendations found: (14)'. A description states: 'PC Optimizer - is the quickest way to adjust all of your system settings at once. Advanced Care Pro will analyze your complete system and adjust your PC to function at its maximum performance.' Below this is a table of recommendations:

Item Name	Current Value	Recommendation	Details
<b>Network Management</b>			
Optimize Internet settings	Off	On	<a href="#">View Details</a>
Optimize System DNS settings	Off	On	<a href="#">View Details</a>
<b>System Configuration</b>			
Windows Search indexing	Enabled	Disabled	<a href="#">View Details</a>
Reduce application close time	3000	2500	<a href="#">View Details</a>
Reduce services exit time	3000	2000	<a href="#">View Details</a>
Unload unused DLLs	0	1	<a href="#">View Details</a>
Speedup system boot	-	2500	<a href="#">View Details</a>
Improve NTFS performance	0	1	<a href="#">View Details</a>
Adjust disk space used by System Restore	0	3	<a href="#">View Details</a>
Configure system performance counters	0	1	<a href="#">View Details</a>
Optimize memory used by applications	Not done	Optimized	<a href="#">View Details</a>
<b>Windows UI Settings</b>			
Speed-up displaying of Windows menus	150	100	<a href="#">View Details</a>
Fast refresh of Windows Explorer	1	0	<a href="#">View Details</a>
Make applications to move faster into foreground	-	0	<a href="#">View Details</a>

At the bottom of the recommendations table, there are two buttons: 'Fix Now' and 'Back to scan results'. The footer of the application shows the version '1.8.0.4-18.11.30' and the company name 'Advanced System Repair, Inc'.

## Advanced System Repair Pro – Product Overview

While some system clean-up utilities may focus on a given area, such as driver updates, system registry, or disk fragmentation, ASR provides a complete system repair capability; including a malware detection and removal engine that has, separately to this test, been awarded Checkmark Certification in its own right.



Running of the scan is comparatively fast, especially considering the breadth of areas covered, and results are displayed to the user in a clear and concise manner.

The UI is well designed and permits a good degree of user control and configuration, without becoming a maze of individual option screens and settings.

Aside from making noticeable improvements to the system responsiveness and general performance, ASR also introduced a minimal resource footprint of its own. In contrast to products that clean systems while proving a drain on performance themselves.



## Summary

ASR is a complete solution that protects the end user while improving system stability and performance.



## Disclaimer

Checkmark Certified is dedicated to ensuring the highest standard of security product testing in the industry, it is never possible within the scope of any given test to completely and exhaustively validate every variation of the security capabilities and/or functionality of any particular product tested and/or guarantee that any particular product tested is fit for any given purpose. Therefore, the test results published within any given report should not be taken and accepted in isolation.

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