

Diskeeper® 18 and Diskeeper Administrator 18 Release Notes

Overview

This document outlines the changes that were made for the release of Diskeeper 18 and Diskeeper Administrator 18

Features and Functionality Added:

Diskeeper 18 (Build 1300, incremental release)

- Automatic IntelliWrite® setting on MEDITECH MAT/EMR servers: MEDITECH MAT/EMR server types create a lot (millions) of small files that never grow/fragment, so it was just extra overhead checking these files trying to prevent them from fragmenting. When detected, it will automatically disable IntelliWrite on these types of systems.
- Special handling of heavily fragmented \$MFT: \$MFT is a special NTFS metadata file that keeps track of all the files on a volume. A restriction was found when trying to defragment a very heavily fragmented \$MFT that could cause a temporary system slowness. Although it appears to be an extremely rare case, a handling was implemented to handle it.

Diskeeper 18 and Diskeeper Admin 18 (Build 1296, incremental release)

- A new free space consolidation engine has been added to efficiently handle rare cases of volumes with extreme free space fragmentation.
- Improved defragmentation methods: When extreme fragmented files with a FAL (File Attribute List) are detected, it dynamically determines how often to process these specific files by the severity of the 'FAL' fragmentation.
- In some rare cases, the dashboard display was incorrect due to an overflow operation. This was fixed.

Diskeeper 18 and Diskeeper Admin 18 (Build 1284– Initial 18 release)

- Capability to install or upgrade without requiring a reboot supported back to Diskeeper 15. Prior versions will need to uninstall, reboot, then install Diskeeper 18
- The Diskeeper and Diskeeper Admin UI have been enhanced.
 - The Diskeeper and Diskeeper Admin dashboard display have been improved to be more intuitive with more information and help icon descriptions.
 - Diskeeper Admin now has a single pane view that lists all systems and key info about each system so admins can quickly scan to identify workload intensity, I/O reduction benefit, memory and caching data, and more. This allows admins to see the exact value of I/O reduction on each system and quickly identify key systems that could use memory tuning to receive a greater benefit from Diskeeper's IntelliMemory® DRAM caching engine.
 - The dashboard intuitively displays color coded indicators (red, yellow, green) to show which systems are getting optimal DRAM caching benefit and which systems are not. Red indicates systems in which IntelliMemory has been turned off or memory is so constrained, there is little caching benefit. Yellow indicates systems that are receiving some caching benefit but would likely deliver much higher cache hit rates with just a little more memory.
- From Diskeeper Admin, you can now change the configuration of remote Diskeeper 18 installs to disable the Benefits Notification Popup.

Diskeeper 16 and Diskeeper Admin 16

- IntelliMemory caching technology dynamically uses idle DRAM to intelligently cache read requests to improve system performance without memory contention. Nothing has to be allocated for cache as IntelliMemory only uses what is idle and available at any given moment.

- New File System Fragmentation Management Engines that resolves extreme file fragmentation issues in a manner that is File Attribute List (FAL) safe.
- New reporting dashboard showcases the “time saved” benefits from sequentializing writes and reads, plus caching hot reads in idle DRAM. See many more benefits and I/O performance metrics that graphically show what is occurring on the system.
- InvisiTasking® 2.0 intelligent monitoring technology has been enhanced to allow Diskeeper “background” operations within the system to run with zero resource impact on current activities. It also accounts for remote access to local drives.
- Instant Defrag™ has been enhanced to work only on files that are known to cause performance problems that were not caught by IntelliWrite® in real-time.
- Improved methods to more intelligently handle fragmentation, focusing on critical fragments, and selecting methodology to best fit the detected storage type.
- Free Space consolidation engine to swiftly consolidate free space.
- HyperFast® technology for SSDs that makes the SSD writes faster without causing excessive SSD wear.
- HyperBoot® technology which improves system boot times.
- Advanced system monitoring.

Fixed Field Report Issues:

Diskeeper 18 (Build 1302, incremental release)

- IntelliMemory had a workaround to a Windows bug with Surprise Removal of storage devices. Some snapshot and backup operations can cause this code path in Windows to be executed. Microsoft recently issued a fix for this bug in Windows 10 and Server 2019. The fix can result in a system crash when previous versions of IntelliMemory is installed. IntelliMemory has been modified to account for this fix of the bug in Windows.
- The Secure Sockets Layer implementation was updated to prevent false security scan notifications..
- A fix to handle the Dashboard display from resetting in some cases.
- This incremental will only support X64 bit systems on the list of supported Windows Platforms.

Diskeeper 18 and Diskeeper Admin 18 (Build 1296, incremental release)

- Incompatibilities with some other products were found that required a reboot to complete the installation. A notification will be indicated that a reboot will be required to complete the installation. This includes Acronis backup solution (Client or Server), certain Citrix configurations, and Avanti security.

Diskeeper 18 and Diskeeper Admin 18 (Build 1284 – Initial 18 release)

- On Upgrades, the dashboard data, if present, is now retained from the previous installation.
- To handle a compatibility issue with a third-party PDF Editor product from Bluebeam, two new file types were added to the IntelliWrite Exclusion List, *.mx* and *.ps*.
- In the dashboard, when the I/Os eliminated became very large, the percentage was not being displayed. This is now fixed.
- In the dashboard, there was an edge case where it displayed negative fragments prevented/eliminated. This is now fixed.
- When changing between tab displays in the dashboard, the selected time frame was not being retained. This is now fixed.

Technical Specs:

- Diskeeper 18 Home and Professional Editions are supported on Windows 7, Windows 8, Windows 8.1, and Windows 10.
- Diskeeper 18 Server Edition is supported on Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, and Windows Server 2016
- Diskeeper 18 requires 250 MB available hard drive space.
- Diskeeper 18 Administrator Edition is supported on Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, and Windows Server 2016.
- Requires Microsoft .NET 4 Framework to run User Interface.

Notes:

- Diskeeper 18 requires internet access for product activation.
- Diskeeper 18 Home is not supported by Diskeeper Administrator.
- Diskeeper 15 and Diskeeper 16 can be updated to Diskeeper 18 without a reboot. If you have Diskeeper 12 or earlier installed, you will need to first uninstall Diskeeper, reboot, then install Diskeeper 18.

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