
Fragmentation Prevention

Diskeeper® 2011 performance software & V-locity® 3 virtual platform disk optimizer: **IntelliWrite®** fragmentation prevention technology. This revolutionary solution addresses how files are written to disk and, as a result, prevents up to 85% of all file fragmentation, leaving only a small amount to be quickly eliminated by its powerful, invisible defrag engines. IntelliWrite does this with zero resource conflicts. As a result, faster reads and writes, lower energy consumption and longer disk life are quickly possible. IntelliWrite fragmentation prevention technology is critical to true virtual infrastructure optimization. Resource-sensitive storage layouts require that any improvement efforts come at no resource cost themselves, where IntelliWrite technology comes in. Fragmentation prevention means contiguous files from the moment of write, requiring no extra I/O to maximize data throughput. The result: resources saved, increased data speed, and potential for greater VM density.

IntelliWrite is the first 100% compatible method to handle fragmentation in thin provisioned environments, or block-based, copy-on-write environments (such as Snapshots and Linked Clones).

Invisibility

Diskeeper 2011 & V-locity 3: **InvisiTasking®** technology carefully monitors local system resources to ensure that disk optimization operations never impact production.

V-locity 3 Only: Revolutionary **CogniSAN™** & **V-Aware™** technologies combined with InvisiTasking technology ensure undetectable background operation across the entire virtual and storage infrastructure.

Special Virtual Disk Detection

V-locity 3 Only: Automatic. V-locity 3 will automatically detect special virtual disk types (Linked Clones, Differencing Disks, etc.) and create as close to a zero fragmentation state as possible without prompting disk growth.

Virtual Space Reclamation

V-locity 3 Only: Automatic. Coupled with a live migration solution from your virtualization vendor, V-locity 3 now offers live reclamation of wasted space on your virtualization host servers. Optionally, the V-locity 3 Host component may also be used to perform a manual offline compaction on ESX or Hyper-V.

Instant Defragmentation

Diskeeper 2011 & V-locity 3: **InstantDefrag™** technology reflexively responds to any fragmentation which does occur after prevention. IntelliWrite technology immediately sends a message to the InstantDefrag engine which handles the fragmented files without necessitating subsequent defragmentation. InstantDefrag technology moves the file while it is still actively being written, minimizing any possibility of negatively affecting native SAN optimization routines.

Real-Time File Defragmentation

Diskeeper 2011 & V-locity 3: **Automatic.**

Real-Time Free Space Consolidation

Diskeeper 2011 & V-locity 3: **Automatic.**

Dynamic, Smart Defragmentation

Diskeeper 2011 & V-locity 3: Groundbreaking **Efficient Mode** ensures that optimization efforts adapt and continue to take the most efficient and effective steps to keep performance at peak levels.

SAN Storage Support

Diskeeper 2011 & V-locity 3: **Natively supported.** Additionally, new Diskeeper Server & Enterprise Server configured for SANs install pre-configured for SAN environments. Refer to Best Practices documentation for additional information.
