

MICROSCAN TECHNOLOGY AT A GLANCE

WHAT IT IS

FalconStor MicroScan is a patented data deduplication technology that minimizes the amount of data transferred during replication by eliminating inefficiencies at the application and file system layer.

Data changes are replicated at the smallest possible level of granularity, reducing bandwidth and associated storage costs for disaster recovery (DR), or any time data is replicated from one source to another. MicroScan is an integral part of the FalconStor Replication option for FalconStor FreeStor solutions.

WHAT YOU GET

Minimized network throughput and storage consumption

Typical storage array-based solutions replicate changes track-by-track. This means that even when the smallest possible data change is made (512 bytes or 1 disk sector), the file system will write 8K of data and the array will send the entire track (typically 32KB in size) or four times more than the file system change.

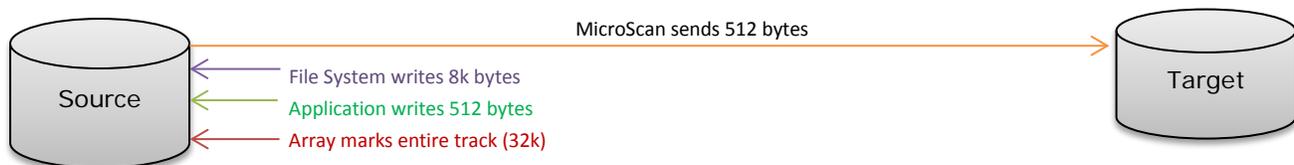
In contrast, MicroScan scans the 8K of "new" data and concludes that only 512 bytes (1 disk sector) have truly changed. Only the 512 byte change is sent over the network, making it 64 times more efficient than sending the full track. This means that for every terabyte the array would need to send over the wire, FalconStor FreeStor only needs to send 16 gigabytes.

HOW IT WORKS

MicroScan analyzes the data block during "copy-on-first-write" to the snapshot resource. Only the changed data is copied, eliminating unnecessary writes.

Data changes are replicated at the smallest possible level of granularity, reducing bandwidth and associated storage costs for disaster recovery, or any time data is replicated from one source to another.

You can enable MicroScan to analyze each block on-the-fly during replication and transmit only the changed sections in the block.



For more information, visit www.falconstor.com or contact your local FalconStor representative.

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