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# Smart Data Centers Feature Editorial

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## Obsidian to Unveil File Migration System at Gartner Conference



By [Shamila Janakiraman](#), TMCnet Contributor

[Obsidian Strategies](#) announced that it will be introducing a new storage transport solution at the Gartner Data Center Conference in Las Vegas. The company specializes in delivering High Performance Computing or HPC technology into the Enterprise Data Center.

Data center architects are adopting open-standard InfiniBand, a dominant HPC interconnect to provide a fast, scalable LAN solution. This helps them eliminate problems regarding power efficiency and scale-out optimization across multi-core servers running virtualized workloads.

Obsidian sources added that its patented Longbow technology enables InfiniBand's superior switch and adapter performance to serve global clients using standard optical WANs.

The company proposes to launch dsync+ at the Gartner show. This is an easy to use file migration tool that works with the complete family of Longbow products to efficiently fill long-distance, high-capacity WAN connections. It also provides an end-to-end bulk data transport system, pointed out officials.

dsync is a software tool enabling very rapid synchronization between remote directories of files, with a usage model similar to the standard UNIX rsync tool.

At Supercomputing 2010 event in New Orleans, Obsidian worked with NASA's Goddard Space Flight Center (GSFC) and Avetec's DICE program to compare different file migration solutions. This program also included the dsync+ solution which functioned over multiple 1,200 mile Longbow E100 10Gbits/s WAN links between Greenbelt, MA and New Orleans, LA.

Hoot Thompson, working for GSFC said in a [release](#), "The combination of Obsidian's Longbow E100 and dsync+ again proved to be a very powerful data transport mechanism, sustaining roughly 2,000 megabytes per second at the file system level, at 82 percent efficiency over multiple 10Gbps optical paths with multiple handoffs and full encryption".

Tracey Wilson, technical director and program manager of DICE or Data Intensive Compute Environment said, "The DICE program aims to objectively measure and validate 3rd party solutions for data intensive environments. The dsync+/Longbow performance is to be commended, including as it does storage, file system and WAN overheads, and all the while also offering the security of AES."

Wilson explained that authentication and encryption are often neglected in HPC domains, but they are actually considered table-stakes for Enterprise Data Center deployments. The high efficiency featured by the dsync+/Longbow combination is optimized for performance.

*Shamila Janakiraman is a contributing editor for TMCnet. To read more of Shamila's articles, please visit her [columnist page](#).*

Edited by [Chris DiMarco](#)

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