



## **BridgeSTOR Patent Application Published for Enhanced Data Security in Multi-Tenant Deduplicated Cloud Data Storage**

### ***Enables Unprecedented Level of Data Security in Shared Cloud Storage Environments***

**Poway, Calif – December 18, 2012 – BridgeSTOR, LLC, the company Advancing Deduplication to the Cloud,** announced today that the United States Patent and Trademark Office (USPTO) has published a Notice of Allowance for U.S. Patent Application [Serial Number 20120310901](#). A Notice of Allowance is issued after the USPTO makes a determination that a patent can be granted from an application.

The patent titled: "System and Method for Electronically Storing Essential Data" describes BridgeSTOR's security breakthrough enabled as part of the company's [DDFS™ \(Data Deduplication File System\)](#) and included in the [CRUNCH™ for Virtual Machines](#) and the [CRUNCH for Microsoft DPM](#) Virtual Deduplication Appliances.

BridgeSTOR's multi-layer security technology overcomes the data privacy concerns that were previously inherent in multi-tenant storage, advancing Cloud security to a new and higher level.

Two (2) outputs are produced by DDFS deduplication: The "data" output, a collection of the unique blocks that exist in the input data and a single instance of the blocks that are duplicates and would have been stored multiple times without deduplication.

The second DDFS output is the "deduplication metadata" which provides the "roadmap" that supplies the deduplication engine with the identity of the correct block to retrieve from a Cloud repository and where that block fits into the file being retrieved and reassembled for use by an application.

The unique and deduplicated data blocks can only be reassembled using the data and its corresponding DDFS metadata in combination. Neither the deduplicated data nor the metadata alone can be used to reassemble a file. The technique is analogous to a 2-part epoxy that is useless unless both of its components are combined simultaneously.

Because file content can only be reassembled by using both the DDFS data and metadata, physically separating the "data" from the "metadata" and encrypting each using a unique encryption algorithm ensures that the security of the file information is maintained and safeguarded.

"BridgeSTOR's 2<sup>nd</sup> generation Data Deduplication File System (DDFS) data/metadata separation with encryption adds unprecedented security to the highly efficient cloud transmission and storage provided by DDFS" says John Matze, CEO, BridgeSTOR, LLC. "These breakthrough capabilities are the results of a significant development effort by an industry-leading team of deduplication and security experts."

### **BridgeSTOR, LLC**

BridgeSTOR, LLC, headquartered in Poway, CA, near San Diego, is advancing the technology of data deduplication to bridge the gap between the data center and offsite storage. The company is extending the boundaries of data deduplication into virtual machine disaster recovery and archive, optimized virtual data transfer to the Cloud and the long-term retention of deduplicated data on magnetic tape. BridgeSTOR makes virtual machine data protection, disaster recovery and data archive simple, affordable and accessible to businesses of all sizes. The company brings data deduplication to both cloud storage and magnetic tape using on-premises Virtual Deduplication Appliances and the innovative

“Deduplication as a Service” (DaaS) OPEX-only cost model to deliver a data protection experience that overcomes the limitations of traditional storage and networking. The company’s website is: <http://www.bridgestor.com>.

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