

InfiniBox® and Commvault® Data Platform: innovation meets data currency

"Currency" has two meanings to modern businesses—it is the medium of exchange that represents the value of business and it is the period during which something is valid. In the case of data, its currency (valid period) has a direct impact on the business' currency (value of the business).

Key features of Commvault® Data Platform include:

- ▶ A complete data protection solution supporting all major operating systems, applications, and databases
- ▶ Support for virtual servers (VMware and Hyper-V) and physical servers, as well as NAS shares, cloud-based infrastructures, and mobile devices
- ▶ Simplified management through a single console
- ▶ Multiple protection methods including backup and archive, snapshot management, replication, and content indexing for eDiscovery
- ▶ Policy-based data management, transcending limitations of legacy backup products by managing data based on business needs instead of physical location

Key features of the InfiniBox® include:

- ▶ Performance exceeding All-Flash-Arrays
- ▶ 100% availability guaranteed; orders of magnitude better than legacy monolithic arrays
- ▶ Densities and capacities that maximize floor space and consolidation efforts
- ▶ Ease-of-use that significantly reduces the petabyte (PB) per full-time-employee (FTE) management ratio
- ▶ Economy of scale that dramatically lowers TCO and increases ROI for large scale, data intensive IT operations

As business data continues to grow at a record pace, traditional backup and copy methodologies are not sufficient to keep data current. Leveraging snapshot technology to ensure the currency of business data is of vital importance to a company's bottom line.

Infinidat Federal InfiniSnap® technology, leveraged by Commvault Data Platform, ensures that your data is more current than any other vendor's snapshot feature.

COMMVault®

COMMVault DATA PLATFORM

Businesses today need a flexible and scalable method for duplicating their application data—one that understands applications and how to make production ready copies of their data for backup and restore, development and testing, patching and modification, or any other use case deemed valuable to the organization. Additionally, businesses need the ability to automate the creation, cataloging, mapping, bringing online/offline, and restoring from these duplicates. In the past, all of these tasks required creating and maintaining manual scripts that understood every application in use, along with any tools necessary to accomplish each task.

The Commvault Data Platform, in conjunction with the Infinidat Federal InfiniBox, automates each of these tasks, eliminating the need to create, test, and continuously update custom scripts. Commvault Data Platform is an enterprise level, integrated data protection and management solution, built from the ground up on a single platform and unified code base.

INFINIDAT FEDERAL INFINIBOX

The InfiniBox represents a new class of hyper-storage that offers unprecedented levels of performance, reliability, scale, ease-of-use, and cost savings to the enterprise. It is a highly innovative, multi-patented, storage software solution that runs on a high availability hardware configuration.

InfiniBox is a Tier 0/1 performance platform also capable of supporting backup and archive implementations. It is available at capacities and a cost differential that extends features such as backup and archive to Tier 2/3 use cases. Paired with Commvault Data Platform, the combined solution is extremely compelling.

InfiniSnap Snapshots at a Glance

Every InfiniBox includes InfiniSnap capability for snapshots. Unique to InfiniSnap is:

- ▶ Massive scalability, up to 100,000 snapshots per system
- ▶ No performance impact, regardless of snapshot frequency
- ▶ Ability to support dozens of snapshots per second with no performance impact
- ▶ Thin by default, requiring nearly zero additional capacity
- ▶ “Fast Overwrite” in-memory updates avoids unnecessary backend I/O and latency penalties common in systems requiring frequent destaging
- ▶ When destaging is required, InfiniRaid® is employed to optimize massively parallel I/O operations across all available media capacity

A PASSION FOR INNOVATION

The affinities between Commvault Data Platform and InfiniBox are born of a similar passion for innovation. Both have comprehensive feature sets offering synergies with each other. One example is between Commvault IntelliSnap® and Infinidat Federal InfiniSnap technologies.

Commvault IntelliSnap is extensively integrated with the applications that run your business—from Oracle to VMware to Microsoft to many others; it understands how to snapshot data with application consistency with the lowest possible granularity—two essential elements in keeping data current. It does this by leveraging the snapshot technology in the underlying storage array—the most efficient, most reliable method for protecting your data. But all storage arrays are not created equal. To provide the highest level of protection and currency to your data, the implementation of snapshots for your storage matters greatly.

InfiniSnap is a patented, non-locking, snapshot technology that uses timestamps to eliminate the inherent scalability and performance issues common with snapshots from other vendors. Metadata, for volumes and snapshot operations, is maintained with a highly efficient implementation of a Trie—the same data structure employed by Google’s search engine. The use of the Trie allows for nearly limitless scalability of data operations. This means that your business can conduct snapshots for all of its data, at any frequency, with ZERO impact on the performance of the array during the snapshot and all subsequent I/O operations. Infinidat Federal innovation ensures that your data, at any point in time, is always available and always current.

By coupling Commvault’s inline data deduplication technology with InfiniBox’s industry leading density and usable capacity, customers typically experience an ingest rate of 13TB per hour or more on a single MediaAgent. This represents a tremendous value to enterprise customers who are looking for new, more impactful opportunities for infrastructure consolidation and cost savings.

DATA PROTECTION FOR THE FUTURE

Commvault and Infinidat Federal have collaborated on a verified solution that combines the features of the InfiniBox with industry-leading Commvault software. This proven combination of technologies enables mutual customers to quickly realize the value of simple and efficient backup and recovery operations.

At the end of the day, with the Commvault Data Platform and InfiniBox, your organization gains a competitive advantage over your business peers and your data has the currency required to move your business forward at all times.

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