

F5 Networks and Data Domain Solutions Note

Highlights

- Dramatically reduce storage-related costs
- Significantly lower power, space and cooling requirements
- Free up premium primary storage capacity
- Lower backup related costs
- Shrink backup and recovery times
- Manage storage growth effectively

File Virtualization and Deduplication Offers Customers Seamless Access to Ultra-efficient, Low-cost Storage

As the amount of data under management continues to grow, companies are looking for new ways to control the increasing cost of storing and protecting that data. This joint solution from Data Domain and F5 Networks helps companies dramatically reduce storage-related costs and effectively manage their data growth.

Data Domain is a market leader in deduplication storage solutions. The Data Domain system applies its proven inline data deduplication technology to the file storage infrastructure, resulting in significant capacity savings for data stored on the system. In addition, the Data Domain system provides savings in space, power, and cooling related to storing the data. As a result, the system's low cost characteristics make it ideally suited for long-term archive of file data. This classification of data can comprise the majority of customer data, translating into significant potential savings as it is moved to the Data Domain deduplication storage tier.

F5 ARX® file virtualization solutions enable companies to maximize their potential cost savings from implementing Data Domain deduplication storage as an archival storage tier. With non-disruptive data migrations and automated management policies, ARX solutions seamlessly integrate Data Domain systems into existing storage infrastructures and reduce the cost and complexity of managing data across a multi-vendor, multi-platform tiered storage environment.

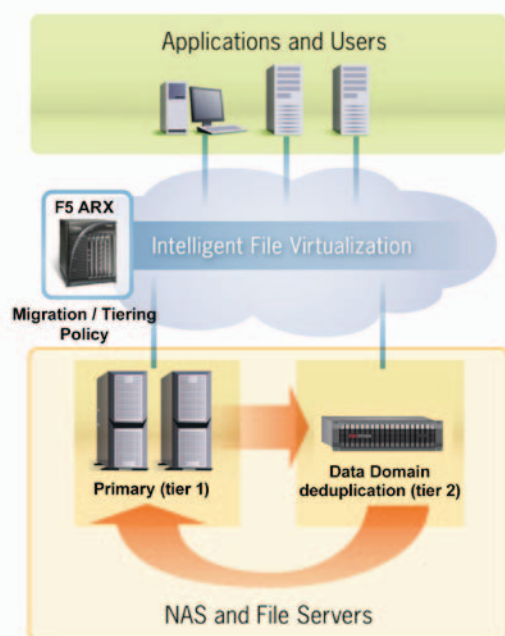
Challenges

Companies are faced with several fundamental storage-related challenges today:

- **Costs**—As more content is created and retained for longer periods of time, the amount of storage required has grown rapidly. As more and more storage devices are added, acquisition and management costs rise. Additional storage devices drive up power, space and cooling costs. Furthermore, growth means more data to backup which brings with it even more expenses.
- **Backup and Recovery**—More data lengthens already long backup times, while adversely affecting recovery time.
- **Inflexibility**—In traditional storage environments, users and applications are statically mapped to the physical file storage resources containing the data they need to access. In order to integrate new storage solutions, administrators have to break these static mappings, causing business disruption and requiring manual reconfiguration of user and application clients. This makes it challenging to take full advantage of the benefits offered by these new storage technologies.

Combined F5 – Data Domain Solution

Together, F5's file virtualization solutions and Data Domain deduplication storage systems provide a compelling new solution to address these challenges. F5 ARX file virtualization solutions automate the placement and movement of data between different tiers of storage, automatically classifying data according to business policy and placing it on appropriate storage devices. Data Domain systems provide a capacity-optimized, cost-effective repository for long-term archival of data.



F5 file virtualization enables seamless access to deduplication storage



Benefits

Organizations that deploy F5 ARX solutions with Data Domain storage systems can non-disruptively move appropriate data onto a deduplicated storage tier while continuing to present the data to users and applications as live data. This translates into several key benefits:

- **Dramatically Lower Costs**— The automated tiering solution from F5 and Data Domain can help companies realize significant capital expenditure savings by automatically moving older, or non-business-critical, data off of expensive storage resources to more efficient, lower cost Data Domain systems. In addition to capital savings, this solution provides potential cost savings related to power, space and cooling.

The combined F5 – Data Domain solution also lowers costs related to backup. In most organizations the majority of data is rarely accessed. The automated tiering solution moves this static data from expensive primary storage to a deduplicated secondary storage tier. This leaves only a small subset of the most active data on primary storage to be backed up regularly, while the data that has been moved to the deduplicated secondary tier can be backed up less frequently because it is not changing. This reduces the amount of data to be backed up, consequently lowering backup costs. In addition Data Domain deduplication storage eliminates redundancies for the most efficient use of available storage capacity.

- **Significantly Reduced Backup Times**— By reducing the amount of data that is backed up on a regular basis on primary storage, as well as the amount of data being backed up on secondary storage, backup times are significantly lowered.
- **Easy Integration**—F5's file virtualization capabilities decouple user and application access to data from the physical location of the data. This allows companies to move data between heterogeneous storage devices without impacting users or applications. Consequently, companies can now integrate new storage technologies such as Data Domain deduplication storage into existing storage environments with minimal disruption and without affecting client access to data.

The combination of file virtualization and deduplication provides seamless access to efficient, cost-effective storage. Together, F5 and Data Domain offer organizations a compelling way to control storage related costs and cope with growth.



About F5

F5 Networks is the global leader in Application Delivery Networking. Its ARX intelligent file virtualization solutions help businesses simplify data management while reducing costs. These award-winning solutions enable companies to manage the rapid growth and complexity of unstructured file-based information by automating data migration, storage tiering, data replication, and storage load balancing tasks. With F5, companies have the freedom to move data at their convenience, place data at their discretion, and choose the storage technology that meets their business needs—all without application or business disruption. For more information, go to www.f5.com.

About Data Domain, an EMC Company

Data Domain® is the leading provider of deduplication storage systems. Over thousands of companies worldwide have purchased Data Domain systems to reduce storage costs and simplify data management. Data Domain delivers the performance, reliability and scalability to address the data protection and near line storage needs of enterprises of all sizes. Data Domain products integrate into existing customer infrastructures and are compatible with leading enterprise backup and archive software products. To find out more about Data Domain, visit www.datadomain.com. Data Domain is headquartered at 2421 Mission College Blvd., Santa Clara, CA 95054 and can be contacted by phone at 1-866-933-3873 or by e-mail at sales@datadomain.com.

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