



Comprehensive Archiving Solution

Addressing Petabyte Scale Unstructured Data Challenges

Tarmin GridBank: A Data Centric Approach

GridBank Data Management Platform is one of the most complete and robust Enterprise Information Archiving solutions available today. Through a revolutionary data centric approach, Data Defined Storage, GridBank addresses all pain points associated with the storage, management and protection of massive amounts of unstructured data, including:

- Reduce the capital and operational costs of managing accelerating unstructured data growth
- Reduce corporate and data risk associated with increased compliance obligations and data sprawl
- Search and access all information efficiently with unified access across the entire data estate
- Reduce backup volumes, time and resource costs

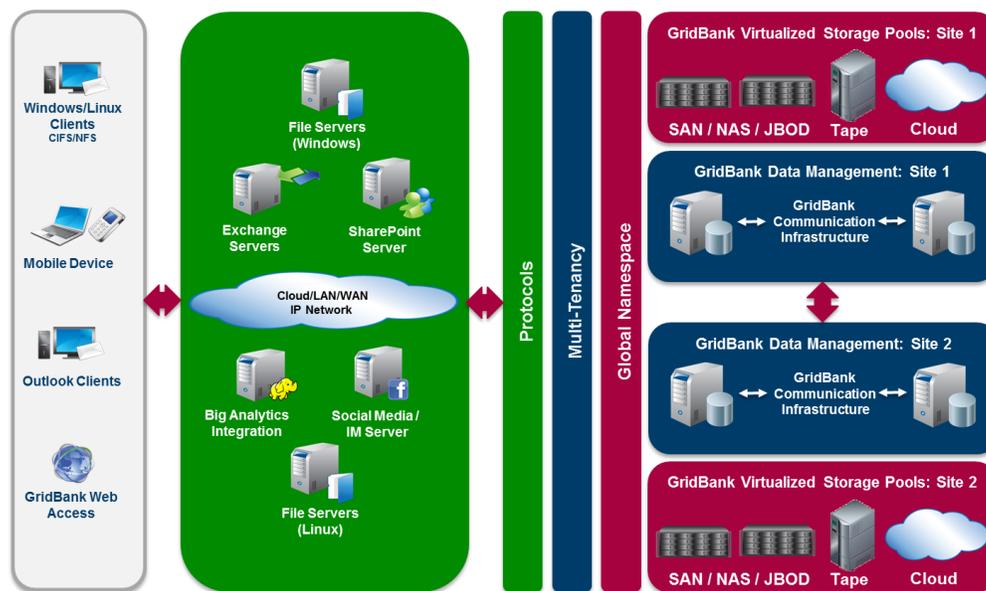


Figure 1 Typical Deployment Diagram

Storage Optimization and Reduced Total Cost of Ownership

A significant and growing percentage of an organization's data is classified as unstructured and static. Migrating this unchanging yet still valuable data from primary storage into an archive reduces overall backup windows, optimizes storage utilization and reduces overall storage acquisition cost. GridBank aggregates and consolidates existing storage investments through intelligent tiering, deduplication and compression policies. It delivers high performance, random access Enterprise Object Storage which optimizes data volumes, eliminates unnecessary duplicates and data silos, and consolidates information into a single unified view of data, resulting in smaller storage footprints. Together, these innovations reduce storage and data management total cost of ownership by up to 80%.

A Path to the Cloud with Media Independent Data Storage

GridBank supports a variety of standards and protocols including CIFS, NFS, S3 and other cloud providers to allow applications to store data into a centralized archive. GridBank stores, protects and replicates data via Enterprise Object Storage which provides Media Independent Virtualized Storage Pools, supporting SSD, SAN, NAS, JBOD, tape or cloud storage targets. On top of this, the GridBank File System (GBFS) provides a scale-out file system platform, allowing organizations flexibility in their choice of infrastructure,

BENEFITS

- **Reduced Storage TCO**
 - Storage Optimization
 - Data Reduction
- **Information Governance**
 - Meet Compliance Regulations
 - Secure Data Mobility
- **Enterprise Search**
 - Data On Demand
 - Improved Business Efficiency
- **Big Data Analytics Integration**
 - Enhanced Business Agility
 - Gain Data Insights
- **Data Centric Management**
 - Monetize Data to Extract Value
 - Increased Competitive Advantage



Archiving & Compliance
Product of the Year

"Tarmin's GridBank software [addresses] all of the core issues with managing unstructured data over the long term."

Steve Duplessie
Founder, ESG

Product Features

- **Information Archiving**
 - File, Email, SharePoint
 - IM & Social Streams
- **Enterprise Object Storage**
- **CIFS, NFS, REST, S3**
- **Global Namespace**
- **Object Dedupe/Compression**
- **Multi-Site Replication**
- **Enterprise Sync & Share**
- **AD/LDAP Security & Audit**
- **Policy-Based Data Retention**
- **Native E-Discovery**
- **Unified Enterprise Search**
- **Extensible API**
- **Big Data Analytics Integration**

enabling reduced capital investment in storage hardware and the option to transition transparently and non-disruptively to the public, private or hybrid cloud. Additionally, through the Global Namespace, the entire archive is exposed as a standard file system to users, allowing simple on-demand access to all archived data.

Improved Data Security and Risk Management

GridBank provides a comprehensive information governance framework designed to mitigate data risk by providing end-to-end identity driven data protection to the individual user and across all storage, servers, infrastructure and smart devices. GridBank Data Management integrates with security models like Active Directory, Kerberos and LDAP and works to authenticate, authorize, audit, and monitor data access via an information security layer. This enables organizations to protect and secure data in the face of increasing IT consumerization, end user demands for BYOD and improved data mobility through cloud services.

Enhanced Data Protection and Retention

To secure and protect data and to meet internal and external regulatory and compliance mandates associated with long-term data retention, GridBank employs integrated policy-based data governance, WORM and defensible disposal with granular legal hold, as well as automated data migration throughout the data lifecycle, moving data to lower cost storage, as data value changes or ages. Additionally, GridBank provides a self-healing data integrity architecture for end-to-end data protection and failsafe multi-site replication ensuring critical service availability in the event of storage or hardware failure or a data center outage.

Enterprise Search and Discovery

A key requirement for an Enterprise Information Archive system is the ability to gain increased visibility and knowledge of all data and to quickly and efficiently search and discover all information, on demand. GridBank ingests all standard file types into the GridBank archive, as well as Exchange, SharePoint, IM and social streams. All basic file metadata is collected, as well as content and custom metadata for over 550 industry specific file types. All 'data about the data' is stored within GridBank's Distributed Metadata Repository, the GridBank MetaBase. This rich metadata repository crosses data type and location boundaries to provide organizations with global access for on demand enterprise search and, with the use of GridBank's powerful discovery toolkit, organizations can not only improve operational efficiencies but also minimize the risk of missing responsive data for e-Discovery orders.

Big Data Analytics Integration

Additionally, GridBank can serve as a big data source and repository, with extensible APIs for programmatic data analysis and as a first-class HDFS target, enabling organizations to gain value from vast amounts of unstructured data. GridBank's scale out grid design and metadata indexing supports many big data analytics and data mining activities directly, avoiding the need to make and migrate copies of massive amounts of data into other types of storage clusters. The metadata repository efficiently exposes content throughout the grid, allowing users to point analytics tools at data-in-place allowing real time insights from the GridBank MetaBase content index while maintaining high performance, enabling enhanced decision making and improved competitive advantage.

GridBank: The Complete Enterprise Information Archiving Solution

Winning numerous technology awards, industry wide recognition and the approval of today's leading industry analysts, GridBank provides an overall strategic approach to Enterprise Information Archiving for industries managing massive amounts of unstructured data, including Financial Services, Healthcare, Oil and Gas, Education and Telecoms.

About Tarmin

Tarmin Inc., the leading provider of Data Defined Storage solutions, unlocks the value of data as a strategic business enabler, delivering a massively scalable, transparent and unified approach for consistent data management, storage, retention, security and search across cloud and traditional storage infrastructure.

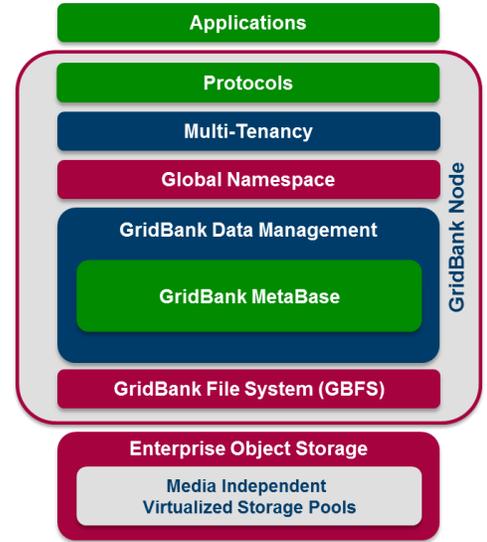


Figure 2 Data Defined Storage Architecture



"GridBank's massively scalable model allows businesses to consolidate their data globally across silos to reduce cost...and enhance the value of data."

Ashish Nadkarni
Analyst, IDC

