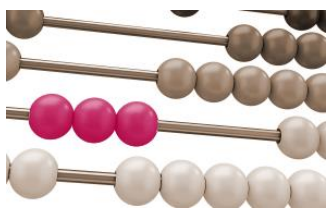**TARMIN**
Where Data Defines Value.

GridBank for Exchange

Comprehensive Email Archiving Solutions for Financial Institutions

Overview

Since the 2007/08 credit crisis, Financial Institutions have confronted extreme environmental challenges. Financial institutions are under pressure to manage stringent regulatory and compliance concerns regarding storage, discovery and management of Electronically Stored Information (ESI) within a reduced cost structure. Risk management and compliance has become a central focus as firms face more intrusive oversight and greater public scrutiny. Coupled with this, financial institutions require 99.999% availability and immediate access to information for innovation. Meanwhile, the velocity of emails and growth of data flowing into such institutions, requiring controlled storage and management, is increasing exponentially. Tarmin addresses these challenges with the innovative Data Defined Storage solution GridBank. Tarmin delivers a modernized data centric strategy and infrastructure to satisfy the data management challenge of financial institutions by providing a high performance, high availability, globally distributed platform for active archiving, long-term storage and retention of emails and business critical information, reducing regulatory compliance and primary storage overheads.

Risk Management and Regulatory Compliance

Regulatory requirements stipulate legal minimum and maximum lengths of retention for different data types. Also, firms faced with litigation proceedings have a legal obligation to identify, discover, collect, preserve and present all relevant ESI, in a process known as e-Discovery. When these regulatory and legal requirements are combined with the proliferation of email and other data, it leads to several core risks:-

- Inability to identify & discover relevant emails or files within e-Discovery timeframes

- Potential penalties for non-compliance with SOX, SEC, DPA & CPR regulations

- Loss, tampering, unauthorized modification or unintended disposal of ESI

With legacy systems and cost of primary storage capacity driving adoption of user inbox quotas, often users manually archive emails into .PST files. These files proliferate across networks, and could be stored anywhere. Searching and analyzing these .PST files in the event of litigation is time-consuming and costly for IT staff. Delays in providing these files to the legal department internally reduce the time available for analysis and review of the information, handicapping the legal department in case preparation, while failure to produce emails externally in a timely fashion can lead to fines and charges. Through trawling internal networks and ingesting .PST files, GridBank's innovative Distributed Metadata Repository consolidates metadata into a scalable, searchable, centralized archive, expediting discovery of ESI. In addition, regulatory requirements specify retention and disposal periods and policies for different data types within financial institutions. The days of "light touch regulation" for financial institutions are over and the oversight bodies are now enforcing these policies with intent. The SEC, FINRA, PRA and the FCA are empowered to apply significant penalties for non-compliance. Tarmin GridBank offers a centralized Management Console to ensure compliance using policy-based tools.
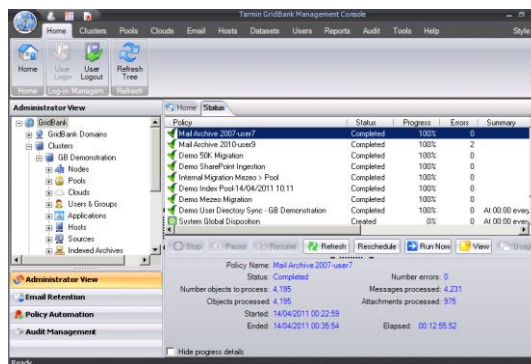

Figure 1: GridBank Management Console

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

Steve Duplessie

Founder, ESG

Finally, without policies and systems for secure authentication and tamper-proof retention of data, there is a risk that data flagged for disposal will be retained or that data mandated for immutable preservation will be accessed or modified by unauthorized users. GridBank's Data Security and Identity Management module mitigates risk by delivering centralized compliance policies, implementing legal hold, and scheduled disposal policies due to regulatory requirements and litigation proceedings.

Instant On-Demand Access to Information

Innovation in products and services in financial institutions are driven by the velocity of information through the firm. Demand for high performance and high availability is practically limitless. There are often unacceptable delays or difficulties in retrieval of data that has been moved from the primary application server to either .PST files or offline backup media. Additionally, server outages and loss or corruption of unprotected files can cost thousands of pounds. In today's dynamic world, administrators and end-users need continuous, guaranteed, instant access to all business critical data at all times. Central concerns for end-users are:

- Instant on-demand access to archived emails, attachments & other data
- Continuous information access via scalable, high performance, high availability services
- Fully integrated tools for simple and transparent data access

Through leveraging the Media Independent Data Storage geo-agnostic hybrid cloud features of GridBank for Exchange within redundant global datacenters, users can be assured of consistent, reliable and immediate access to email and data as and when required, through seamless integration with Microsoft Outlook.

Reduced Cost Structure and Data Growth

Financial institutions across the industry are scaling back their operational expense, while managing significant data growth. Increasing volumes of emails and attachments and escalating storage costs are leading to challenges in managing information cost effectively. Data volumes are forecast to double every 2 years, leading to massive increases in storage hardware and management costs. Primary storage on Exchange and other application servers is highly expensive and overloaded servers lead to performance issues. Yet despite these costs, 80% of email is only viewed once and 99% of email never changes. Implementing Tarmin GridBank for Exchange archiving platform delivers these solutions:

- Exchange Server performance enhancements by reducing primary storage footprint
- Automated policy-based migration of data to lower cost storage
- Enhanced employee productivity with comprehensive search & retrieval

Primary storage footprint can be reduced up to 80% through archiving unchanging data, while distributed Object Dedupe storage and compression reduces the overall storage requirements. As the load on Exchange servers falls, performance increases and storage costs drop. The policy-based approach ensures that data is transparently migrated and retained in
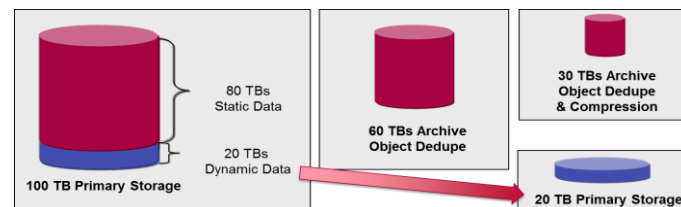

Figure 2: Distributed Object Dedupe and Compression

lower cost secondary storage, such as public or private clouds, while maintaining on-demand access to data. Additionally, with data directly searchable, employee efficiency is increased by enabling them to productively utilize information stores. Combined, these cost-saving, operationally innovative measures address the challenges of growth in storage requirements while improving productivity and reducing data cost.

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. Tarmin's proprietary GridBank solution empowers organizations to store, control and understand the value of data as a competitive business asset, no matter its size, location or cost by uniting application, information and storage tiers into a single, integrated data centric management architecture.

Product Highlights

- **Data Centric Storage**
- **File System Virtualization**
- **Distributed Object Dedupe**
- **AD/LDAP Security**
- **Information Governance**
- **GridSync & Smart Mobility**
- **Content Metadata Filtering**
- **Unified Enterprise Search**
- **Big Analytics Integration**

"GridBank 3.0's massively scalable model allows businesses to consolidate their data globally across silos to reduce cost...and enhance the value of data."

Ashish Nadkami

IDC