



## GridBank for Exchange

### Email Archiving and Information Governance Solutions in Healthcare

#### Overview

The healthcare environment requires reliable, timely access to growing data volumes while facing a flood of compliance and data retention regulations along with cost pressures. The volume and velocity of email and data flowing through the healthcare industry is growing exponentially. Added to this, practitioners' clinical need to be certain of high availability access to data is paramount. Additionally, information governance is a central focus for service providers, with numerous email and data retention and disposal regulations, as are compliance concerns over privacy, data security and auditing mandates. In today's climate of shrinking budgets and expectations of achieving more from less, Tarmin addresses these IT burdens with its Data Defined Storage platform, GridBank. This next generation data centric approach provides a modern storage infrastructure strategy that enables healthcare enterprises to store and manage massive amounts of unstructured and

semi-structured data across transparent organizational boundaries. Providing a high availability, active archiving and long-term retention platform for emails and other critical diagnostic information, GridBank provides a faster access to data, reduced regulatory compliance overhead and storage costs, improved quality of care and, ultimately, enhanced patient outcomes.

#### Continuous On-Demand Information

As the healthcare profession becomes more and more driven by evidence-based practice, the volumes of data collected and stored are ceaselessly increasing. While data volume growth continues to accelerate, it is becoming increasingly difficult to ensure that the information is continuously available and can be quickly and easily located, as and when practitioners require. Since positive patient outcomes are driven by immediate access to the right information at the right time, reliable, timely and consistent access to shared patient data and Electronic Health Records (EHR) can make the difference between life and death.

Meanwhile, innovation in delivery of healthcare services requires high performance and high availability access to email and data. 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 can lead to significantly reduced chances of successful treatments and reduced quality of patient care. Additionally, server outages and loss or corruption of unprotected files can lead to misdiagnoses, potentially endangering patients by applying possibly harmful medication and raising the risk of litigation. In this dynamic healthcare environment, administrators and practitioners need continuous, guaranteed, instant access to all data critical to healthcare at all times. Central concerns for practitioners and end-users are:-

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

Through leveraging the geo-agnostic hybrid cloud features of Tarmin's Media Independent Data Storage in 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.

#### Information Governance: Record Management, Data Security and Auditing

Regulatory requirements stipulate legal minimum and maximum lengths of retention for different data types and across clinical disciplines. Additionally, service providers faced with litigation proceedings have a legal obligation to identify, discover, collect, preserve and present all relevant EHR, in a process known

#### BENEFITS

- **Media Independent Data Storage**
  - Improve Operational Efficiencies
  - Reduce Storage TCO
- **Data Security & Identity Mgmt**
  - Secure Data Mobility
  - Compliance & Risk Mitigation
- **Distributed Metadata Repository**
  - Data On Demand
  - Improve Business Agility
- **Data Centric Management**
  - Monetize Data to Extract Value
  - Increase Competitive Advantage



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

**Steve Duplessie**  
Founder, ESG

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 and discover relevant emails or files within e-Discovery timeframes
- Potential penalties for non-compliance with HIPAA, DPA, FoIA or Public Records regulations
- Loss, tampering, unintended disposal or unauthorized access or modification of EHR

#### 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

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 and externally can lead to limited litigation preparedness and costly penalties. Tarmin GridBank trawls internal networks and ingests .PST files into a searchable, centralized archive expediting discovery of EHR. Additionally, regulatory requirements specify retention and disposal periods for different clinical disciplines, with severe penalties for non-compliance. Tarmin GridBank offers a centralized Management Console to ensure compliance using policy-based tools.

Finally, without policies and systems for secure authentication, tamper-proof retention of data and audited search and access, there is a risk that data flagged for disposal will be retained or that confidential data mandated for immutable preservation will be accessed or modified by unauthorized users. A need to retain data could be due to regulatory requirements or implication in litigation proceedings. Either way, healthcare service providers risk significant charges for non-compliance. By delivering centralized compliance, security and auditing policies and implementing legal hold and scheduled disposal through its Data Security and Identity Management technologies, Tarmin GridBank mitigates this risk.

#### Reduced Cost Structure and IT Optimization

Healthcare providers 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 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
- Improved patient outcomes through more efficient search and retrieval

Primary storage footprint can be reduced by 80% via archiving unchanging data, while single instance storage and compression reduces overall storage requirements. As load on Exchange servers falls, performance increases and storage costs drop. The policy-based approach ensures that data is transparently migrated and retained in lower cost secondary storage, such as public or private clouds, while maintaining on-demand access to data. Additionally, with data directly searchable through the archive front-end, patient outcomes are improved by ensuring the relevant information is immediately available. Combined, these measures address data volume growth while reducing management 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.



*"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 Nadkarni  
Analyst, IDC

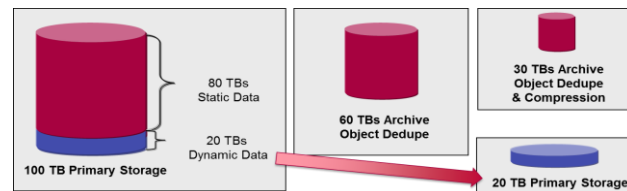


Figure 1: Distributed Object Dedupe and Compression

