

Shared Mailbox Archiving & AI Workspace



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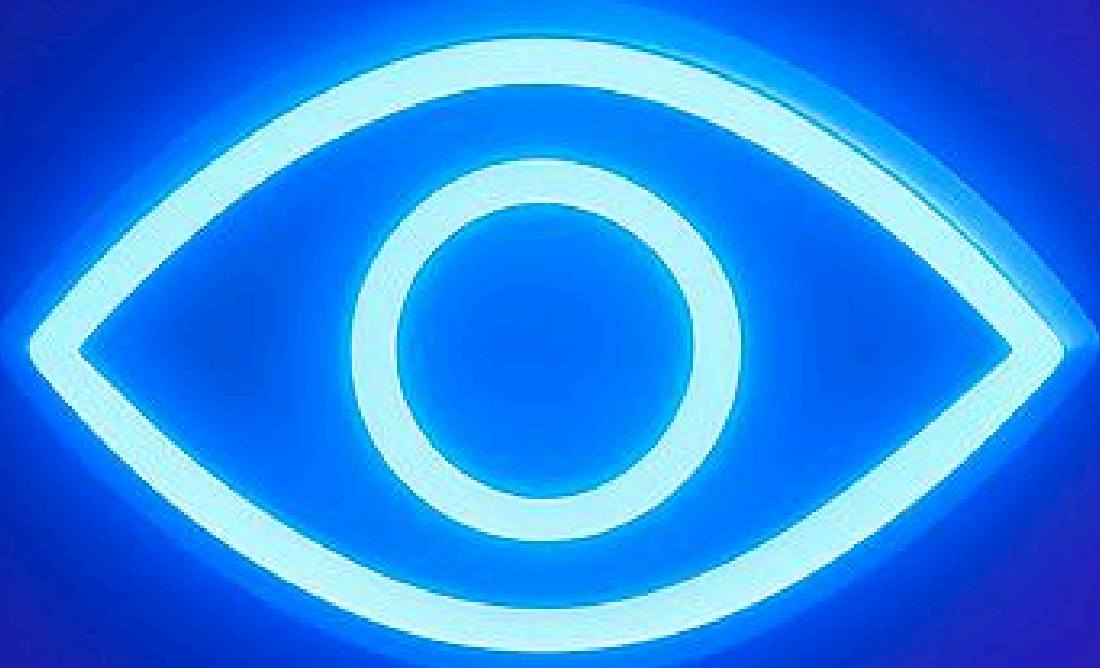


Overview

For many enterprises, shared mailboxes become a hidden bottleneck – accumulating years of unmanageable email history, unstable Outlook performance, and compliance challenges. AiFA Labs revolutionized this process by implementing a two-phase modernization strategy for a leading global client.

Through automated archiving, continuous synchronization, and an AI-enabled workspace, the solution stabilized performance, improved Outlook responsiveness by over 80%, and reduced manual workload by 70%. With advanced classification, routing, and eDiscovery powered by AI, the initiative not only ensured compliance and immutable storage for legal holds but also transformed daily email operations into an intelligent, high-efficiency workflow.





Executive Overview

A global enterprise client faced a critical challenge: a shared mailbox overloaded with more than 15 years of accumulated email history. While deleting old records was technically possible, each message had to be manually verified to ensure it wasn't subject to a legal hold – a time-consuming and error-prone process. The system had become unstable, with slow searches, frequent freezes, and performance issues that severely impacted productivity. Meanwhile, a constant influx of daily emails continued to increase storage demands and manual workload, leaving teams struggling to maintain efficiency and compliance.

To resolve these issues, AiFA Labs implemented a comprehensive two-phase modernization initiative designed to restore stability, automate compliance, and unlock AI-driven efficiency:

Phase I

Archiving & Stabilization



Emails older than six months were archived monthly into immutable Azure Blob Storage with complete metadata retention. Verified items were securely deleted from Outlook, reducing mailbox size and significantly improving responsiveness.



Phase II

AI-Enabled Workspace



Continuous synchronization of all incoming emails was introduced, combined with an AI-powered workspace for advanced search, classification, routing, summarization, reporting, and self-service eDiscovery.

This balanced modernization not only enhanced the user experience and reduced manual effort but also ensured regulatory compliance and operational continuity – transforming an overloaded legacy system into a centralized, intelligent, and future-ready communication hub.

Problem Statement

Over time, the client’s shared mailbox had evolved into a serious operational and compliance liability. With more than 15 years of undeletable email history and a constant inflow of new messages, it had become a source of daily frustration, inefficiency, and risk.

Manual Burden

Staff spent excessive time classifying, forwarding, and reporting emails manually. Even basic actions, such as opening a folder, could take over 10 minutes, slowing down daily operations and increasing fatigue.

System Instability

Containing 5,000–10,000 folders, the mailbox frequently caused Outlook to freeze or fail to send/receive messages, disrupting communication and delaying responses across departments.

Compliance Bottleneck

Although deleting outdated emails was technically possible, every record required individual verification to ensure it wasn’t under legal hold. This manual review process proved unmanageable, leaving teams unable to reduce mailbox size or meet retention policies.

Operational Risk

At times, users were unable to access or rely on the mailbox, delaying critical workflows, regulatory communications, and customer responses. Prolonged instability not only impacted productivity but also heightened compliance exposure and reputational risk.

Cumulatively, these issues created a severe performance bottleneck and a growing compliance challenge, signaling the urgent need for an automated, AI-driven modernization strategy.

Our Solution

Phase I – Monthly Archiving & Cleanup

The first objective was to restore mailbox stability and eliminate the operational strain caused by excessive data volume. AiFA Labs introduced a monthly automated archiving process built on Azure Logic Apps, which identified and archived all emails older than six months.

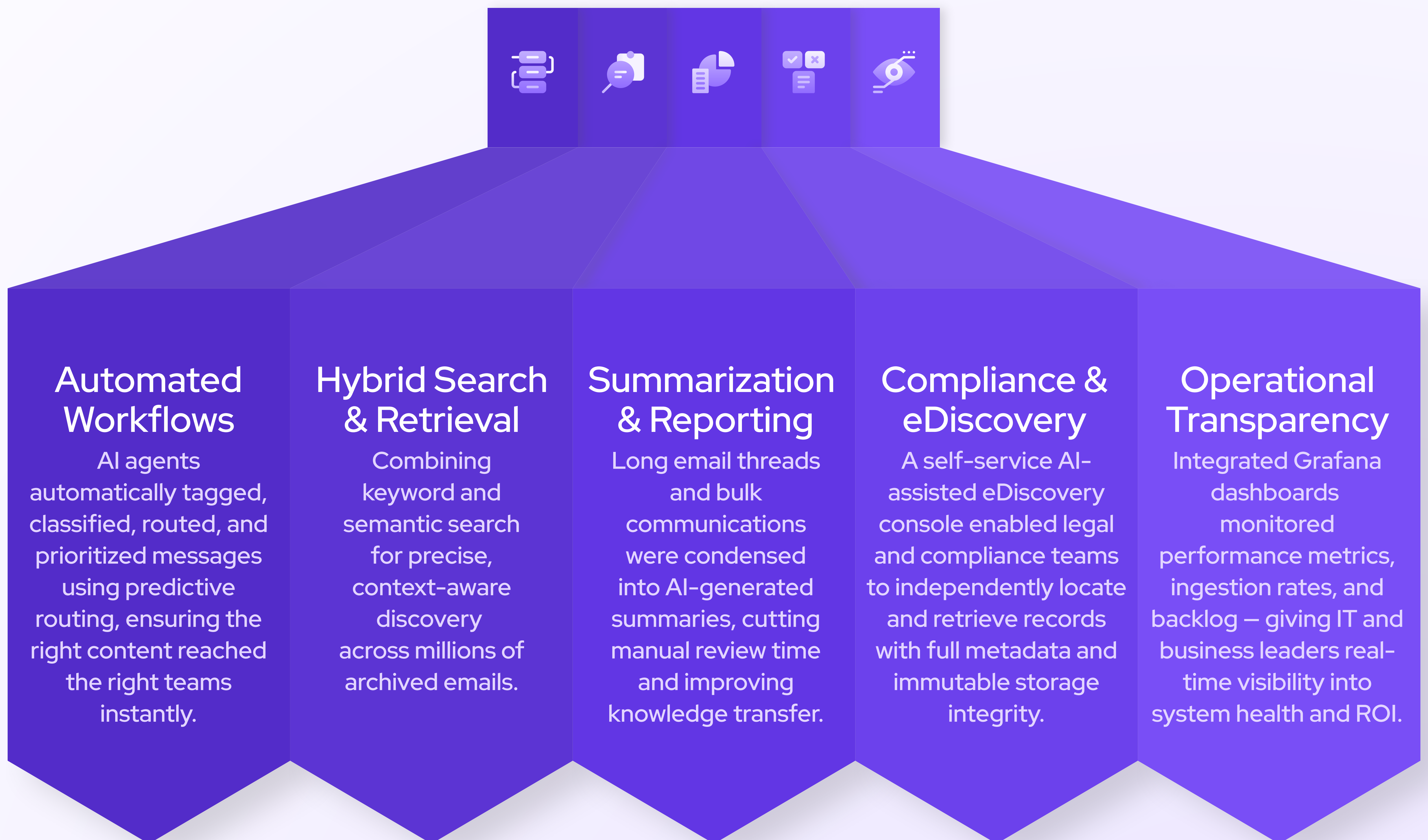
Each message was preserved in .EML format with a matching JSON file capturing all metadata and stored securely in immutable Azure Blob Storage – ensuring long-term data fidelity, auditability, and compliance.

Once validated, these archived emails were safely removed from Outlook, reducing mailbox size by 80–90% and significantly improving performance. Folder structures became manageable, Outlook responsiveness increased, and staff could work without frequent freezes or send/receive failures. This phase established a sustainable baseline for stability, setting the stage for full automation and AI-driven efficiency.



Phase II – Continuous Sync & AI Workspace

Building on the stabilized foundation, the second phase introduced continuous synchronization of all new incoming emails into the Azure archive – eliminating batch delays and ensuring the system always stayed current. AiFA Labs then deployed an AI-powered workspace that transformed email management into an intelligent, automated process. Key capabilities included:



Together, these innovations transformed a fragile, overloaded mailbox into a centralized, AI-driven communication and compliance workspace. The result was a faster, more reliable, and fully auditable system that empowered teams, reduced manual effort, and ensured regulatory peace of mind.

Business Value

\$630K saved annually

Reduced operational overhead and improved workforce efficiency

12,600 hours of productivity reclaimed

Time previously lost to manual email management is now reinvested in higher-value work.

Future-proof compliance and scalability

Automated archiving, immutable storage, and AI workflows ensure sustainable performance and governance.



Results & Impact

Following AiFA Labs’ two-phase modernization, the client experienced measurable improvements across experience, effectiveness, and efficiency – transforming a 15-year-old shared mailbox into a responsive, AI-powered workspace.

Experience

Outlook performance boosted by 80%

Day-to-day use became smooth and stable, with dramatically faster load and response times.

No more freezes or failures

Day-to-day use became smooth and stable, with dramatically faster load and response times.

Rapid user adoption and satisfaction

70% of users adopted the new system within 3 months, achieving an 85% satisfaction rate.

Unified workspace for archived and live emails

Employees now manage all messages through one streamlined interface, improving workflow continuity.

Effectiveness

AI agents manage classification and reporting

Automated routing, summarization, and tagging replaced manual sorting.

Compliance built by design

Legal holds and immutable archives (EML + JSON) ensure full traceability and regulatory alignment.

Smarter, faster eDiscovery

A self-service console empowers legal teams to locate and export records independently.

Improved reporting accuracy

AI summarization reduced errors and accelerated decision-making.

Efficiency

Mailbox size reduced by up to 90%

Automated monthly archiving cut mailbox volume and simplified folder structures.

70% less manual workload

AI-driven automation eliminated repetitive classification and forwarding tasks.

Instant, intelligent search

Hybrid (keyword + semantic) search enables rapid retrieval of relevant emails.

Real-time visibility for IT and management

Operational dashboards display throughput, backlog, and ROI – ensuring transparent performance tracking.

Current State

Before modernization, the client relied on large, shared Exchange mailboxes that had accumulated over 15 years of unmanageable data. With millions of stored emails and more than 5,000–10,000 folders, Outlook performance degraded to the point of becoming nearly unusable.

Teams reported persistent issues such as:

- Outlook freezing or timing out when accessing shared mailboxes
- Delayed sending and receiving due to overloaded folder structures
- Manual archiving and legal-hold checks requiring per-email review
- Even basic tasks – like opening a folder – could take several minutes

Previous Challenges

- Overgrown mailbox size leading to severe performance degradation and Outlook crashes
- Inability to bulk delete emails due to legal-hold validation requirements
- Manual cleanup processes that were impossible to execute at scale
- Heavy operational dependence on IT support and lack of visibility into system performance

Modernization Requirements

The client required a robust, automated, and compliant solution capable of:

- ✓ Archiving all emails older than six months into immutable Azure Blob storage (.EML + JSON metadata)
- ✓ Automatically removing validated items from Outlook to restore performance and stability
- ✓ Maintaining continuous ingestion of new emails to create a unified, centralized archive
- ✓ Integrating AI-powered retrieval with keyword and semantic (vector) search for faster, more accurate access
- ✓ Automating classification, tagging, predictive routing, and LLM-powered summarization to cut manual workload by up to 70%
- ✓ Providing self-service eDiscovery and compliance tools for legal teams
- ✓ Delivering monitoring dashboards via Grafana and Qdrant to track performance, errors, and adoption
- ✓ Ensuring resilience and scalability through Kubernetes-based deployment of Python services, ElasticSearch, and Azure Logic Apps

Key Metrics

Mailbox Performance	Outlook responsiveness improved by >80%
Mailbox Size	Reduced by 80–90%
Automation	90% of classification, forwarding, and reporting tasks automated
Workload Reduction	70% reduction in manual effort
Hourly Rate (Baseline)	\$50/hour
Previous Manual Cost	\$900,000/year
Manual Time Spent	18,000 hours/year
Current Time Savings	12,600 hours/year (70% reduction)
Projected Cost Savings	\$630,000/year
Automation Coverage	90–70% of processes now fully AI-driven

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By combining automation, AI, and scalable cloud infrastructure, AiFA Labs helped the client eliminate years of inefficiency, restore performance, and ensure long-term compliance — proving how intelligent modernization can turn even the most overloaded systems into strategic assets.

Ready to Modernize Your Infrastructure?

Discover how AiFA Labs can help your organization automate complex workflows, improve system performance, and unlock measurable ROI through AI-driven transformation.



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