infoblox®

INNOVATE FINANCIAL SERVICES: SIMPLIFY IT OPERATIONS, SECURE DATA AND REINFORCE CLIENT TRUST

SUMMARY

With Infoblox solutions, your financial services organization can simplify and modernize critical network services while improving security, leading to greater efficiency and stronger client trust.

Infoblox streamlines and automates the critical network services that make modern networking possible—DNS, DHCP and IP address management (DDI). Together, our enterprise-grade DDI and preemptive DNS-layer security solutions empower you to increase operational efficiency, reduce cyber risks that target financial entities and simplify compliance. In addition to automating critical network services, these solutions detect and block pervasive threats other security measures will miss and provide networking and security teams with unified visibility across hybrid and multi-cloud environments. When combined, these capabilities empower your financial enterprise to adapt quickly, scale securely and deliver reliable service in an evolving regulatory and threat landscape.

OVERVIEW & CHALLENGES

The financial services industry is accelerating digital strategies to meet evolving customer expectations and improve efficiency. Cloud-first infrastructure, generative AI and open banking are reshaping how financial institutions like yours operate—but they also reveal critical weaknesses in security, visibility and operational agility. Hybrid and multi-cloud environments are now the norm, yet many financial enterprises still rely on legacy systems and siloed teams. Without unified oversight across NetOps, SecOps and CloudOps, your organization faces growing risks: from misconfigurations that cause outages to fast-moving cyberthreats that traditional tools fail to detect. These gaps make it harder to scale efficiently, meet stringent financial services regulations and respond to disruption—ultimately affecting service availability, customer trust and the speed with which you can deliver the financial products your clients demand.

KEY BENEFITS FOR FINANCIAL ORGANIZATIONS

- **Ensure Service Availability:** Automate DNS, DHCP and IPAM to keep financial services online across branches and clouds.

- **Secure Digital Assets:** Block ransomware and data exfiltration with DNS-layer protection and early threat detection.

- **Accelerate AI and Digital Banking:** Centralize visibility and control across hybrid and multi-cloud environments.

- **Support Regulatory Compliance:** Maintain granular visibility and policy control to meet mandates like PCI DSS, GDPR and DORA.

- **Accelerate Threat Response:** Detect, prioritize and mitigate security incidents with integrated threat intelligence and response.

Infoblox can help you bridge these gaps. By centralizing and automating critical network services and extending security to the DNS layer, Infoblox enables your organization to modernize with confidence. The result is stronger resilience, faster response times and a scalable network foundation built to support innovation, compliance and client trust. Infoblox also enables cloud migration and the early adoption of generative AI by ensuring the availability of critical network services across hybrid architectures. As AI and data-driven initiatives become more strategic, Infoblox provides the foundational visibility, automation and security needed to support transformation, without adding operational burden.

CHALLENGES FINANCIAL SERVICES ORGANIZATIONS FACE AND THE CONSEQUENCES OF MAINTAINING THE STATUS QUO

Challenge	Description	Consequence	Description
Operational Complexity	Hybrid and multi-cloud environments are now the norm—87% of financial services organizations have deployed or are deploying multi-cloud—yet many still rely on legacy systems and siloed teams.[1]	Rising Operational Costs	Legacy infrastructure and manual processes drive inefficiency. Teams are overburdened with troubleshooting and routine maintenance, draining budgets and slowing progress.
AI Integration Complexity	Pressures are building to adopt generative AI, but legacy systems, fragmented data and operational silos complicate AI deployment.	Stalled Innovation and Increased Risk	Without a reliable, scalable network foundation, AI initiatives face delays, data privacy risks and regulatory hurdles—slowing digital transformation and reducing ROI.
Cybersecurity Pressure	Financial services are high-value targets for cybercriminals. Ransomware attacks and data breaches are increasing in frequency and severity, with more than 3,300 incidents reported in 2022 alone, driven in part by broader cloud adoption across the sector.[2]	Increased Exposure to Threats	Outdated defenses and manual processes leave infrastructure vulnerable to attacks that can disrupt operations, expose sensitive data and damage regulatory standing.
Regulatory Compliance Burden	Compliance with regulations like PCI DSS, GDPR and DORA requires full visibility, consistent policy enforcement and detailed auditing across environments.	Compliance Gaps	Manual systems and incomplete audit trails increase the risk of non-compliance, fines and reputational damage—particularly as regulations evolve.
Scalability and Resilience	Meeting demand and delivering always-on service require network services that can rapidly scale and recover across all locations.	Inability to Scale and Adapt	Without automation and reliable failover, outages and performance issues disrupt client services and erode trust.
Legacy Infrastructure	Many financial services institutions still depend on outdated DNS, DHCP and IPAM systems that were not designed for today's hybrid cloud and AI-driven environments.	Slower Modernization and Loss of Strategic Momentum	Limited agility hinders the adoption of cloud-native services—ultimately delaying transformation efforts and increasing operational risk.

THE INFOBLOX SOLUTIONS

Infoblox enables your financial services organization to meet the complexity, scale and security demands of hybrid and multi-cloud environments. The Infoblox Universal DDI™ Product Suite consolidates DNS, DHCP and IP address management (IPAM) to simplify and automate network operations across your existing legacy and cloud-based infrastructure. By unifying these critical network services in a centralized platform, the solution eliminates manual errors, reduces provisioning delays and ensures consistent policy enforcement across distributed environments. In addition, it provides comprehensive visibility and analysis of all assets across public clouds, on-premises networks, IoT/OT devices and third-party applications, enabling teams to troubleshoot faster while avoiding resource conflicts.

Traditional security measures widely used in the financial services industry struggle to keep pace with AI-driven threats and advanced malware. Most rely on post-breach detection, which introduces delay and risk. Infoblox Threat Defense™ employs industry-leading DNS threat intelligence and algorithmic detection to preemptively block devices from accessing malicious domains, proactively safeguarding financial services operations against cyberattacks. These capabilities integrate seamlessly into broader security workflows to enhance visibility and accelerate threat response.

Together, Infoblox DDI and Threat Defense empower your teams to streamline operations, strengthen cyber resilience and meet regulatory mandates such as the General Data Protection Regulation (GDPR), Payment Card Industry Data Security Standard (PCI DSS) and Digital Operational Resilience Act (DORA). With flexible deployment models, centralized cost control, built-in automation and API integration, Infoblox empowers your operations to scale faster, reduce risk and deliver secure, uninterrupted service across every channel.

KEY USE CASES

Infoblox solutions support several high-impact use cases that help financial services institutions modernize infrastructure, improve resilience and protect critical data. These scenarios reflect the evolving demands confronting the financial services industry in a digital, AI-driven and highly regulated environment.

Accelerating Digital Infrastructure Modernization: Infoblox enables financial services entities to modernize aging and siloed infrastructure by centralizing DNS, DHCP and IPAM through its DDI platform. These services are delivered consistently across on-premises, hybrid and multi-cloud environments, allowing teams to replace manual, error-prone processes with automated workflows. Infoblox supports extensive API integration, helping to unify systems and tools while accelerating network provisioning. The result is a more agile, secure and scalable network foundation that reduces operational costs and enables faster delivery of financial services.

Prevent Service-Disrupting Conflicts: In response to the growing number of branch locations, remote work endpoints and cloud-connected devices, Infoblox automatically detects and resolves IP address conflicts before they disrupt financial transactions or client access. Real-time alerts, centralized IP tracking and historical data visibility give operations teams the control needed to proactively manage address space and prevent service interruptions. Automating IPAM helps networking teams reduce downtime, speed up issue resolution and reallocate resources to strategic initiatives.

WHY FINANCIAL SERVICES ORGANIZATIONS CHOOSE INFOBLOX

- **Hybrid and Multi-Cloud Ready:** Ensure consistent critical network services across legacy, virtual and cloud environments.

- **Protective DNS Security:** Identify and block threats like ransomware preemptively with algorithmic detection and DNS-centric threat intelligence.

- **Full Infrastructure Visibility:** Monitor IP activity, DNS traffic and connected devices from a single console.

- **Built-In Resilience:** Enable business continuity during outages with local caching and automated failover.

- **Streamlined Automation:** Reduce manual work and accelerate provisioning with API-driven orchestration.

- **Compliance Confidence:** Support evolving industry regulations through granular logging, policy enforcement and reporting.
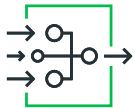
infoblox.

Simplifying Cloud and AI Adoption Challenges: Infoblox helps financial services institutions modernize legacy systems and accelerate cloud adoption by providing consistent, scalable DDI services across all leading cloud platforms. These services support infrastructure as code, automation and centralized policy enforcement to reduce operational complexity and maintain regulatory compliance. Infoblox enables the integration of AI and analytics-driven applications by delivering the visibility, performance and security needed to support real-time data processing and sensitive workloads. These capabilities enable organizations to embrace digital banking, open finance and generative AI initiatives—without compromising control or increasing risk.
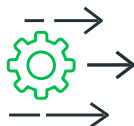
Facilitating Business Continuity and Disaster Recovery: Infoblox ensures local survivability and continuous network operations during outages through local DNS caching, resilient architecture and automated failover processes. As a result, financial services operations are better able to maintain uptime for trading systems, banking portals and AI-driven services, even during cloud disruptions or data center failures. These capabilities reduce revenue risk, protect service availability and preserve customer trust in a digital-first environment.

Streamlining Network Consolidation Due to Mergers and Acquisitions: Infoblox's centralized DDI solutions facilitate the seamless integration of disparate networks during mergers and acquisitions. Automated discovery, unified visibility and secure IPAM and DNS services help networking staff identify overlapping address space, enforce consistent policies and reduce operational complexity. These capabilities support faster consolidation, maintain service performance and ensure ongoing regulatory compliance.

Preemptive Protection from Ransomware and Data Breaches: Infoblox Threat Defense leverages DNS threat intelligence to detect and block malicious domains at the earliest point in the attack cycle, disrupting ransomware and preventing data breaches. Proactive detection, automated response and visibility into DNS traffic help financial services firms maintain regulatory compliance, protect sensitive financial data and defend AI-powered services. These capabilities reduce attacker dwell time, enhance security operations center workflows and safeguard critical systems across distributed environments.

CONCLUSION

As a thriving financial services enterprise, your organization understands the need to modernize infrastructure while managing rising operational demands, sophisticated cyberthreats and evolving compliance obligations. Achieving these goals requires a network foundation that can scale efficiently, reduce complexity and build trust in every digital interaction. Infoblox solutions provide that foundation through a united approach to critical network services and Protective DNS security. They empower your teams to centralize and automate DDI across all environments, reduce complexity and proactively safeguard financial systems, infrastructure and data.

With Infoblox, your organization can scale faster, detect threats earlier and ensure consistent service delivery across channels. Whether enabling cloud innovation or maintaining regulatory readiness, Infoblox helps you operate securely, efficiently and without compromise.

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1. World Cloud Report – Financial Services 2025, Capgemini Research Institute, 2025.
2. The cyber clock is ticking: Derisking emerging technologies in financial services, McKinsey & Company and the Institute of International Finance, March 11, 2024.