

Predict, prevent, protect:

How Lenovo is transforming
security for Financial Services

 **Windows 11**

Lenovo recommends
Windows 11 Pro for Business.

Smarter
technology
for all

Lenovo



Transforming security and the digital experience for Financial Services

How modern technology can enhance customer satisfaction, strengthen underlying security, and make next-generation solutions and services available and affordable.

1 Why Lenovo in Financial Services?

A clear understanding of customer needs—and a clear vision of the way ahead through innovative technology and services.

2 Cyber security: predict and prevent

ThinkShield and more: How Lenovo and its partners are helping financial institutions tackle the ever-growing challenge of cyber security.

3 Risk and Compliance: monitor and manage

Can RegTech ensure compliance, and data protection, while reducing the regulatory burden faced by IT departments?

4 Cloud security: migrate and maximize

Keeping data safe during migration and afterwards—Lenovo will help you design your cloud security strategy for today and tomorrow.

5 Conclusion: Making the right choices

Digital transformation, sustainability—and why trust is an integral element of any Financial Services organization's offering.

1

Why Lenovo in Financial Services?

An unrivaled portfolio



A time of unprecedented change

The global financial system is going through an unprecedented digital transformation. Banks compete with technology companies; technology companies compete with banks.

There's a heightened demand for online Financial Services, and work-from-home is an attractive incentive. Central banks around the globe are considering throwing their weight behind digital currencies and modernizing their payment systems.¹

In this time of transformation, modernization, security, and compliance are more essential than ever.

Products, solutions, and trust

Lenovo is a trusted provider at some of the world's largest financial institutions, bringing a wealth of expertise to bear on the challenges facing the sector. Together with our partners, we're creating products and solutions to enable the transformation while maintaining or increasing security for financial institutions and their customers.

While security remains a must-have, financial institutions face the challenge of providing innovative new digital services while modernizing their infrastructure and core applications in a compliant manner. As the largest global end-to-end provider of devices, systems, solutions, and services in the industry, Lenovo is helping in a number of ways.

Attracting digital talent

Modernize your workspaces with a wide array of innovative devices and experiences. We provide cutting-edge technology, from the pocket to the cloud, comprising smart IoT devices, mixed reality headsets, powerful tablets, mobile workstations, and more.

Enabling hybrid work and digital collaboration

Boost your workforce productivity by providing greater flexibility, so people can easily work from anywhere. We support you with enterprise-level security for distributed networks and devices; cloud-based management; and infrastructure modernization, such as private or hybrid cloud.

Supporting digital banking initiatives

Deliver your customers outstanding, connected experiences to deepen relationships and cement their brand loyalty. We provide solutions such as AI, High Performance Computing, cloud migration and managed services to accelerate your transformation into a bank of the future.



Lenovo is a US\$70 billion

revenue global technology powerhouse



Ranked #171

in the Fortune Global 500

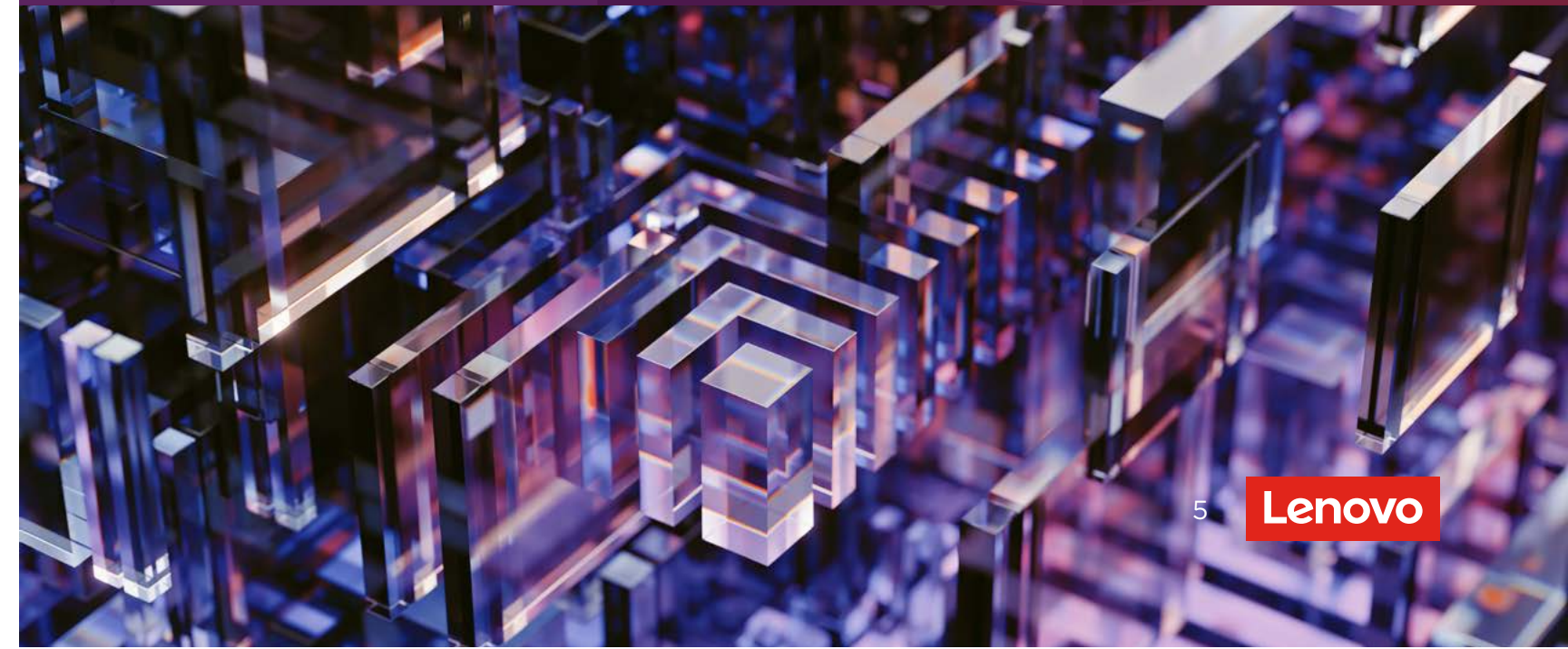


Employing 82,000

people around the world, and serving millions
of customers every day in **180 markets**

Focused on a bold vision to deliver smarter technology for all, Lenovo has built on its success as the world's largest PC company by further expanding into key growth areas including server, storage, mobile, solutions and services.

This transformation together with Lenovo's world-changing innovation is building a more inclusive, trustworthy, and sustainable digital society for everyone, everywhere.



2

Cyber security: predict and prevent

Ramping up response to threats



It's not a case of if, but when

As the financial sector's move into the digital sphere increases, so does the threat of cyberattacks. The disruption caused by these malicious actors can negatively impact the global financial system, financial stability, and confidence in the integrity of the system.



1 in 4

malware attacks target Financial Services firms, at an average cost per company of

\$18.3m²

In 2023, the cost of cyber-attacks is expected to hit

\$8 trillion

That's

\$255,000

per second

Maintaining service availability in the face of constant threats is a major challenge. This challenge is exacerbated by the market's demand for innovation and limited resources for security.

The financial and reputational cost of failure can be huge and far-reaching. However, the absence of an immediate problem can lead to a false sense of security, resulting in a lack of urgency to implement preventative measures. The unfounded belief that security slows down both IT teams and end users often contributes to a reluctance to wholly embrace protection.

By the end of 2025, the financial damage caused by cyber-attacks is expected to reach

\$10.5 trillion

annually—up from \$6t in 2021²

On the contrary, the stronger the security you have, the smoother your disruption-proof business runs, and therefore, the happier and more satisfied your customers and stakeholders feel.

Prevention is always better than cure

Lenovo resolves these conflicts by implementing a multi-layered protection solution. Lenovo's ThinkShield is a comprehensive, customizable, and modular end-to-end security solution. Lenovo helps customers select the features/components that make it easier for admins to manage security and users to work securely and seamlessly. From a secure supply chain, through products secured by design, to partnership with the industry's most trusted security providers, ThinkShield lays a solid base of protection.

With its partner ecosystem and intuitive AI, Lenovo detects network threats and errors before they can impact anyone. It also analyzes and assesses any potential weaknesses in your infrastructure that might give cyber criminals a window of opportunity. In addition, it's scalable, adapting as new security trends and loopholes emerge, always putting you perpetually one step ahead.

Thinking ahead: backup and disaster recovery

The need to protect data whether it's at the edge, in the datacenter, or in the cloud adds complexity to backup and data management architecture. Traditional backup solutions designed to safeguard on-premises data cannot deliver comprehensive data protection across hybrid, multi-cloud environments and applications, putting data at risk and costing time, resources, and money. Lenovo offers industry-leading backup and disaster recovery solutions to mitigate the risks of data loss and downtime.

Enhanced endpoint protection

Microsoft and Lenovo have a long-established partnership, and endpoint protection is enhanced by Windows 11 on Lenovo. It's the most secure version of Windows yet. It enables hybrid work with powerful out-of-the-box protection, including enhanced phishing safeguards, password-free security, and more control over apps and access anywhere.



3

Risk and Compliances:

Meeting the digital challenge



Translating security regulation for the cloud

Many Financial Services regulations were designed before the widespread adoption of cloud computing (PCI DSS dates to 2006, for example), and they don't define exactly how to protect workloads in the cloud. Interpreting the rules and applying them to cloud environments is an exercise that regulators leave to individual businesses.

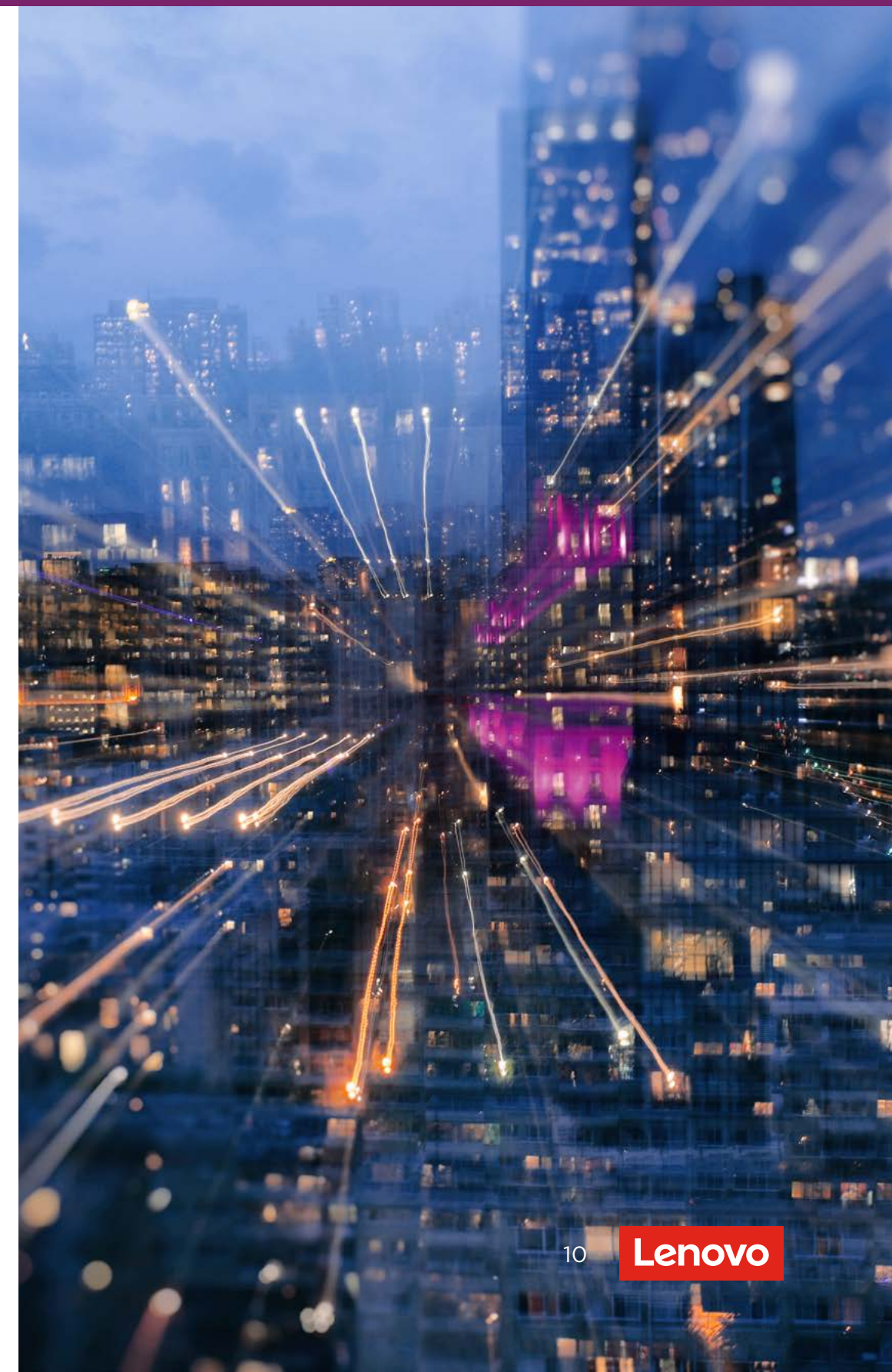
This means that achieving compliance requires the ability to translate security regulations that were conceived in the pre-cloud era into a cloud security strategy.

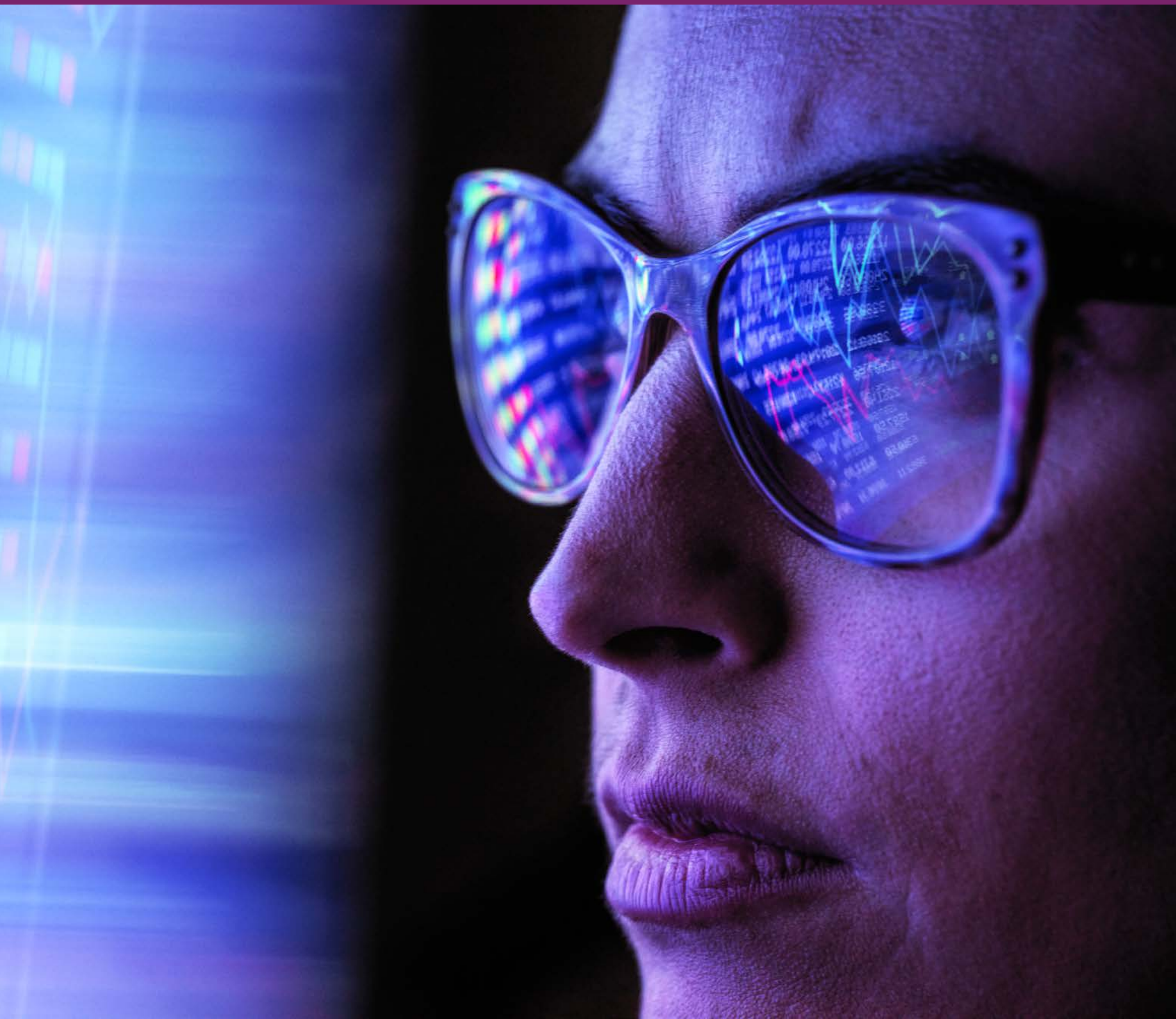
Harnessing technology to stay on the right side of regulations

Data security has always been paramount in Financial Services; now 'regulatory technology', or RegTech, is emerging as a prime driver in compliance management strategy.

As a trending financial technology subset, RegTech integrates AI and machine learning (ML) to automate regulatory compliance.

RegTech is more than just an enhanced version of current risk and compliance solutions. It uses cloud technology to deliver solutions involving machine learning, big data analytics, and natural language processors to aggregate and analyze bank data and to detect, predict, and mitigate risks to the organization. It helps financial institutions become more competitive by providing sustainable and efficient solutions that automate the processes used to meet regulatory expectations.





Stay up to date, stay secure

The critical success factor for RegTech is technology currency throughout the entire stack.

Lenovo PCs offer full-disk encryption, remote-wipe capability, remote out-of-band management, and Trusted Platform Module chips dedicated to securing hardware. Lenovo's digital workplace solutions keep endpoints up to date with BIOS, operating system, security and application patches delivered over the Internet. This way, endpoints are kept up to the most current security standard and can prevent compromise by day-zero attacks in a reliably reportable manner.

Best-in-class data protection

Lenovo's best-in-class data protection solutions deliver intelligent data management across diverse hybrid cloud environments and workloads; streamlined and simplified data protection with automation and orchestration; improved data availability and accelerated application performance; and reduced infrastructure costs. We can ensure regulatory compliance, and data protection, wherever and whenever employees work.

4

Cloud security: migrate and maximize

The journey to the cloud is
just the beginning



Financial cloud data protection is crucial

Financial Services organizations face unique challenges in securing data and applications in the cloud, but resisting cloud migration is no longer an option.

From 2019 to 2022, the average number of public cloud services utilized by Financial Services organizations increased by over 50%. Although the Financial Services industry stores a similar amount of sensitive data in the public cloud as other sectors (61%), it skews toward storing more confidential internal information, such as employee records and payment card information.³

Achieve your cloud goals without compromising protection

If you're planning your journey to the cloud, your strategy must address the top cloud security challenges, including ransomware, phishing and compliance.

Lenovo helps customers confidently accelerate their cloud transformation by delivering a managed service approach along the end-to-end cloud lifecycle. We offer the expertise to design the best hybrid or multi-cloud strategy for your business needs, secure and rapid data migration and manage everything as a service.

We offer:



Private cloud

- Manage a dedicated pool of IT resources with cloud delivery capabilities
- Scalability and self-service while retaining control
- Choose where and how IT resources are deployed



Multi-cloud

- Utilize more than one cloud environment to varying degrees
- Leverage multiple cloud environments with specialized capabilities to better align with requirements and business objectives



Hybrid cloud

- Allows for multiple sources of IT infrastructure operated with an integrated software platform that spans these environments
- Combine on-premises private and off- premises provider infrastructure for scalability



Make the right choice for your business, and cloud computing can unleash potential, enable innovation, and deliver previously unimaginable flexibility and agility. Whatever you decide, Lenovo cloud solutions offer security, scalability, and agility.

Practical steps forward

Public cloud platforms have enterprise-grade features and options. The key is knowing which ones to use in the right combination or configuration.

Best practice is to identify the ideal architecture for a low-risk service, migrate and test it, and then iterate again for increasingly high-value and high-volume services.

Lenovo professional services can help with cloud service design, configuration and testing. Lenovo cloud infrastructure products also help customers access cloud features in private or hybrid architectures.

End-to-end storage and data management solutions

Lenovo's industry-leading, scalable end-to-end storage and data management solutions help you:

- Accelerate application performance to deliver faster results
- Simplify data management across hybrid, multi-cloud environments and workloads
- Optimize data protection and management to reduce costs and increase ROI

Manage your hybrid workforce through the cloud

Windows 11 works with cloud tools to help manage your hybrid workforce. From zero-touch device deployment and policy management to updates, secure single sign on, and remote help, you have the control and flexibility to support employees and their devices anywhere.^{1,2}



5

Conclusion: The right partners, the right choices

Maintaining integrity, building trust



• Nobody does digital transformation alone.

As a global supply chain leader, Lenovo understands that it takes an ecosystem working in concert to deliver superior outcomes for customers. So, Lenovo's product and solution portfolio includes components from market leaders in AI, public cloud, productivity, security and device management categories, among others.

Lenovo delivers added value by combining its own and third-party products and services into solutions that deliver business outcomes in an optimized commercial model. For Financial services institutions, this means not just financing, but the flexibility to change consumption (and cost) in response to demand across all product categories.

It also means an opportunity to spotlight another crucial area. Sustainability is of growing importance to customers, employees, shareholders and the wider community. Taking responsibility for actions that affect the planet includes ensuring that partners and suppliers can be trusted to help deliver a greener future.

Environmentally conscious products, solutions, and services

Lenovo is recognized as one of the world's most sustainable companies, with a number of environmentally friendly programs in place. These include aggressive greenhouse gas emissions reduction goals for 2030.

Beyond limiting its own emissions, Lenovo is focused on increasing the sustainability of its packaging and products. Since 2008, Lenovo has eliminated 3,240 metric tons of packaging consumption by weight.

Lenovo devices are characterized by their energy-efficient design and build, use of recycled materials and packaging, and end-to-end lifecycle management for a circular economy. Lenovo's partner ecosystem enables rapid delivery of custom solutions direct to users, minimizing transport costs and CO₂ emissions.

All of this underlines the company's continued efforts to secure not only data, but a better future for everyone.



Explore further

Whatever phase of digital transformation you are in, Lenovo will help you get it done.

Sources

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