

ThinkShield

Lenovo ThinkShield Solutions Guide

Hardware • Software • Services • Processes

Your team works everywhere. Your security should, too.



Built for Business



Lenovo recommends Windows 10 Pro for Business.

Smarter technology for all

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Cybersecurity is having a moment.

25%

Security personnel waste 25% of their time **chasing false alerts**.¹

53%

of companies have **more than 1,000 sensitive files** accessible to every employee.³

314 days

The **average data breach lifecycle** of a malicious or criminal attack is 314 days.⁵

74%

of companies plan to permanently shift to **more remote work** post-pandemic.²

\$3.9M

The global average **cost of a data breach** is \$3.9M.⁴

17M

On average, employees have **access to more than 17 million** company files.³

tripled

Attacks on IoT devices tripled in the first half of 2019.⁶

68%

of business leaders feel their **cybersecurity risks** are increasing.⁷



ThinkPad X1 Carbon



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It's time for ThinkShield.

The ThinkShield security portfolio safeguards the entire lifecycle of a device, layering protections for holistic and comprehensive security coverage. It is built on a set of **core beliefs** about how best to serve and secure your business teams.



ThinkPad T14
Secure Access



Strong security fundamentals allow IT to drive growth.

When IT spends less time on updates and password resets, they can serve a more critical role as drivers of innovation and growth.



Security that interferes with productivity is unacceptable.

If device security slows down your employees, they'll find ways to circumvent it. The best solutions stay out of their way.



Innovation must not outpace security.

Every technological advancement opens an organization up to new threats — and the hackers are ready to exploit them. Security solutions must be able to adapt.



Comprehensive solutions reduce costs and pay returns.

Technical debt accumulates when you attempt to solve one security issue at a time with solutions that weren't designed to work together. Customizable, end-to-end solutions reduce sunk costs and create new cost efficiencies.



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What is ThinkShield?

A comprehensive portfolio of end-to-end security tools that encompasses hardware, software, services, and processes.



Advanced solutions across four categories

ThinkShield Built-in Platform Security

Out-of-the-box protections come standard on Lenovo devices.*

- Intel vPro® platform security
- Microsoft Secured-core PC-ready
- Secure wipe
- Self-healing BIOS
- Tamper switch
- Security Engine
- Webcam privacy shutter
- Windows 10 Hello and FIDO2

ThinkShield Device Protection

Advanced hardware security features protect the integrity of the device.

- Fingerprint reader with match-on-chip
- IR camera
- Keep Your Drive service
- PrivacyGuard with PrivacyAlert (shoulder surfing protection)

ThinkShield Threat and Data Protection

Next-generation solutions safeguard critical data.

- Full-disk encryption and management
- SentinelOne® AI-powered antivirus

ThinkShield Security Management

Persistent visibility maintains and manages an entire fleet.

- Absolute® software-based endpoint management
- IoT endpoint protection
- MobileIron mobile-centric, zero-trust security

*Security features for devices built on the Intel vPro® platform.

76%

of security pros are focused on detection and containment instead of protection, but **protection can save businesses up to \$1.4M per attack.**⁸

38%

Only 38% of global organizations **believe they are prepared** for a sophisticated cyberattack.⁹

Security by Design

Security begins in R&D and extends through our supply chain and the lifecycle of every device we build.

Secure Supply Chain

Rigorous supplier vetting assures that every step of the manufacturing process is controlled, audited, and tamper-proof from our facility to your employees' desks.



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Can your devices defend and repair themselves?

Advanced hardware security and BIOS protection hardens endpoints from attack and restores devices to a known good state.

Intel® Hardware Shield

Part of the built-for-business Intel vPro® platform, Intel® Hardware Shield puts extra locks on the Lenovo BIOS so a bogus firmware update can't take hold of your device.

Infrared camera

Integrated IR cameras enable biometric authentication and presence detection, which alert users to shoulder surfers and lock the device when the user is away.

PrivacyGuard

Filters the screen to restrict the field of view.

Secured-core PC

Guards against attacks aimed below the operating system, keeping malicious code out of the BIOS. Deep security integration between hardware, firmware, and the Windows 10 Pro OS builds a bedrock of security at the heart of the device.

The root of trust

Secured-core PCs boot up against a security checklist known as the "root of trust." If processes and movements deviate from the norm, boot-up is aborted.

Secured-core PC Enablement Services

The Lenovo team can configure a Secured-core PC at the factory, ensuring your entire fleet is enabled consistently and accurately.

ThinkPad X1 Yoga



Firmware vulnerabilities **have grown**

750%

since 2016.¹⁰

Gartner predicts that

70%

of enterprises without a firmware upgrade plan **will experience a firmware breach** by 2022.¹¹

Port protection

Smart Thunderbolt™/USB protection prevents unauthorized data transfer by restricting port access to only non-storage peripherals.

Security Engine

A custom chip embedded within Lenovo Think devices that performs security functions that are completely isolated from the software.

USB secure hard drive

High-level, 256-bit AES security, as well as a keypad for entering an 8- to 16-digit password.

Webcam privacy shutter

Integrated physical webcam cover assures that the camera is not in use.



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Defending your data against tomorrow's threats.

Almost every component in a PC is susceptible to attack. The Lenovo ThinkShield portfolio is watching all of them. You can't be with employees every minute... but ThinkShield can.

Data encryption

Whether data lives on a device hard drive or in the cloud, ThinkShield protections — including WinMagic — can encrypt it from end to end so sensitive data can be safely shared.

Frictionless authentication

Eight modes of secure authentication — including biometrics, PIN, and picture passwords with Windows 10 Hello — take the peril out of passwords and credentials.

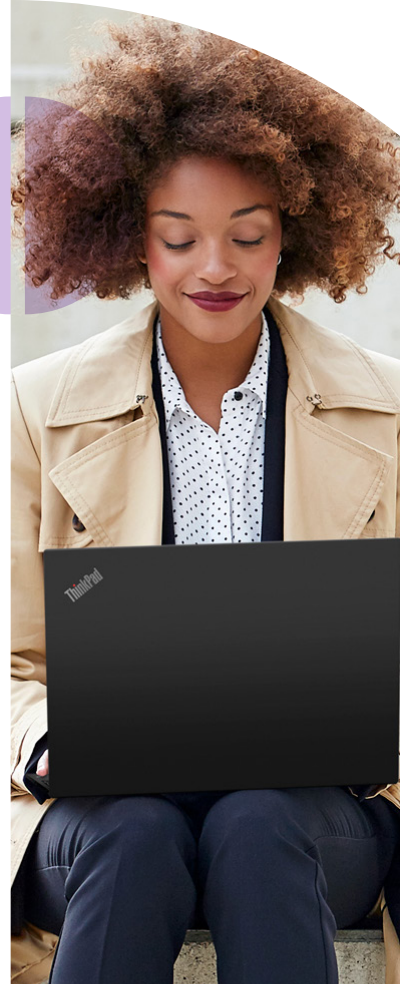
Lenovo's match-on-chip and match-on-network fingerprint readers are the most secure in the industry.

Next-generation antivirus protection

Cloud-based and autonomous, SentinelOne® uses AI and ActiveEDR to predict, prevent, and stop even zero-day attacks, alerting the network and rolling your devices back to a clean, known good (pre-breach) state.

Secure disposal

Your data is protected even when your device reaches end of life. You can elect to keep your hard drive,¹² or we can securely wipe the data and dispose of the device in an environmentally sensitive manner.



ThinkPad T14s i

38%

of employees are not confident they know how to stay secure while working remotely.¹³

46%

of websites have high-security vulnerabilities that an end user could never know about.¹⁴



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Is it really a solution if you're working harder?

ThinkShield gives IT teams a custom-fitted solution to protect and manage the entire fleet — even remotely.



79%

of organizations currently use **security automation tools** or plan to use them within the next 3 years.¹⁵



Flexible patching

Lenovo Patch makes it easy to quickly patch vulnerabilities and keep devices up to date. Critical patches can be instantly delivered organization-wide.



Lenovo Thin Installer

Install updates behind the scenes automatically without involving the end user. Lenovo Thin Installer also directly injects a patch into the OS without adding code.



Absolute® Persistence endpoint management

The Absolute® software dashboard delivers visibility and access to every device in your network, no matter where it's operating.



Self-healing BIOS

The Lenovo BIOS automatically restores endpoint devices to a clean, pre-breach known good state in the event of an attack. It helps mitigate attacks against BIOS and stops “bricking” if a BIOS update is interrupted or fails.



Secure setup

Lenovo can manage the quality control for your Secured-core PC with our Secured-core PC Enablement Services.



Windows Autopilot

Simplify deployment with zero-touch device provisioning for IT.

\$1.55M

Incident response automation can **reduce the total cost** of a data breach by \$1.55M.¹⁶



ThinkVision P32u-10



ThinkCentre M90n Nano



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A battle on infinite fronts: Securing the IoT

The next step in the ongoing digitization of industry is the Internet of Things (IoT): bringing connectivity and intelligence to a new class of devices. Sensors, robotics, autonomous vehicles, medical equipment — connected objects are transforming businesses. But many of these devices were not designed with security in mind.

With the Lenovo ThinkCentre Nano IoT, businesses have a simple edge computing option for securing and centralizing the management of connected devices.

5 minutes
The **amount of time** it takes for an IoT device to be attacked by bots once connected.¹⁷



Absolute®
If critical applications go offline or malfunction, Absolute Persistence® technology can automatically get them back online.



Encryption
In addition to a TPM chip, encryption services like Windows BitLocker and WinMagic can protect data from prying eyes.



MobileIron
Provides a console through which IoT devices, data, security, and policies can be managed.



Virtualization-based security
Isolates IoT device activity from other critical processes, preventing malware from entering the network.

ThinkCentre Nano IoT

A secure gateway for protecting IoT devices against attack. All devices connected to the Nano IoT benefit from ThinkShield protections.



ThinkCentre M90n Nano IoT



ThinkVision T27p-10



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Free up your time to **innovate.**

IT leaders do more than protect data. You accelerate progress.

IT security gives organizations a competitive edge. The ThinkShield security portfolio speeds technological progress without impeding the employee experience.

IT security isn't a cost — it's an investment that drives returns.

With ThinkShield solutions in place, IT will spend less time setting up, monitoring, and securing devices, and more time implementing breakthrough technology.

Security solutions keep IT teams agile and ahead of the game.

You don't have to play catch-up. ThinkShield solutions prepare you for tomorrow's threats with PCs that can defend themselves.



ThinkShield: Smarter security for business

ThinkShield is Lenovo's security portfolio of hardware, software, services, and processes — fully customizable solutions to secure your critical data and business technology. Lenovo recommends Windows 10 Pro for business powered by the Intel vPro® platform.

Visit www.lenovo.com/ThinkShield and connect with a security specialist. We can help customize the right solution for your business.

53%

of executives are **"extremely concerned"** about the effects of cyberthreats on growth prospects.¹⁸

86%

of businesses that believe in security's ability to open new business opportunities **saw 10%+ revenue growth** year over year.¹⁹

ThinkPad L15 i



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