

# ThinkShield

## Lenovo ThinkShield Solutions Guide

Hardware • Software • Services • Processes

Your team  
works  
**everywhere.**  
Your security  
should, too.



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Windows 10 Pro for Business.



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## Cybersecurity is having a moment.

**25%**

Security personnel waste 25% of their time **chasing false alerts**.<sup>1</sup>

**74%**

of companies plan to permanently shift to **more remote work** post-pandemic.<sup>2</sup>

**17M**

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

**53%**

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

**\$3.9M**

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

**314 days**

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

**tripled**

Attacks on IoT devices tripled in the first half of 2019.<sup>6</sup>

**68%**

of business leaders feel their **cybersecurity risks are increasing**.<sup>7</sup>



ThinkPad X1 Carbon



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**Windows 10**

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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



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### 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.

**76%**

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

**38%**

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

### 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.

### 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



ThinkPad X13 i

#### 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.



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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.

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Firmware vulnerabilities  
have grown

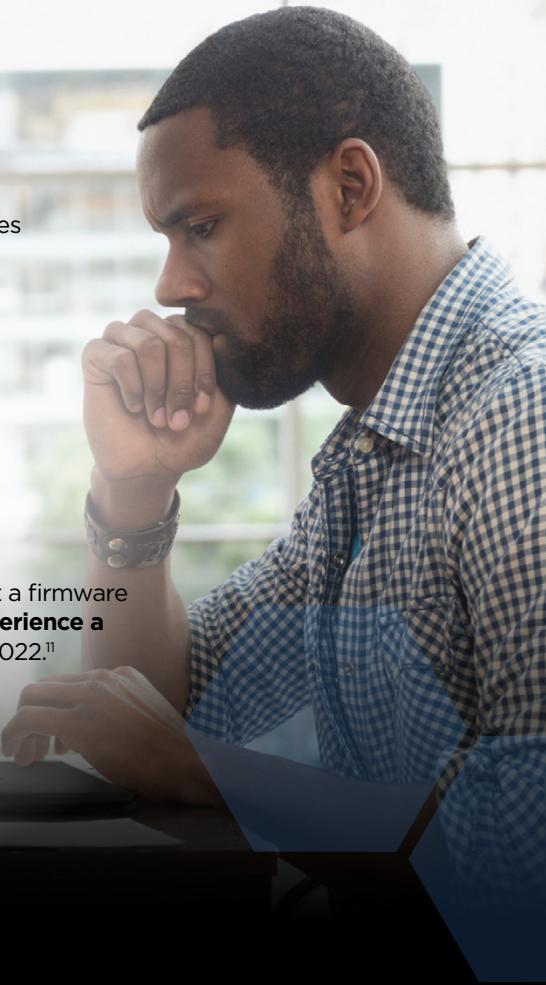
# 750%

since 2016.<sup>10</sup>

Gartner predicts that

# 70%

of enterprises without a firmware upgrade plan **will experience a firmware breach** by 2022.<sup>11</sup>



### 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,<sup>12</sup> or we can securely wipe the data and dispose of the device in an environmentally sensitive manner.



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**38%**

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

**46%**

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

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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.<sup>15</sup>



### 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.



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.<sup>17</sup>



#### 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.

**53%**

of executives are “extremely concerned” about the effects of cyberthreats on growth prospects.<sup>18</sup>

**86%**

of businesses that believe in security’s ability to open new business opportunities saw 10%+ revenue growth year over year.<sup>19</sup>



## 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](http://www.lenovo.com/ThinkShield) and connect with a security specialist. We can help customize the right solution for your business.



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