DELL Technologies

Anatomy of a Trusted Device

Learn what makes Dell the world's most secure commercial AI PCs[1]

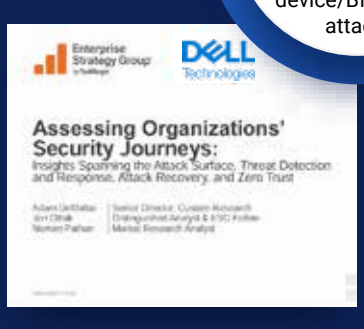
THREAT LANDSCAPE & CHALLENGES

Emerging attack vectors below-the-OS creating new risk

Endpoint devices are a major gateway for breaches. As hybrid work expanded the attack surface, concern around device-level security spiked in recent years. Attackers increasingly turned to targeting the supply chain, as well as rootkits and other firmware vulnerabilities which are largely undetectable by legacy EDR software alone.

Device-based threats increased 1.5x since 2020.[2]

69% of organizations report at least ONE device/BIOS-level attack[2]



Top evaluation criteria when sourcing new PCs:

- Automated detection of BIOS events[3]
- Addressing high-risk configurations[3]

To combat modern threats, devices must be built securely, and they must feature built-in security to help catch and repel attacks.

THE SOLUTION

Prevent, Detect, Respond to & Recover from Foundational Attacks with the World's Most Secure Commercial PCs[1]

A fleet is only as secure as its individual PCs. But what makes a device trusted and secure? Visibility and actionability. Having access to more data leads to informed decision-making, helping to catch even the sneakiest emerging threats. Automation enables speedier resolution of potential issues.

The hardware and firmware defenses of Dell commercial PCs (on both Intel and AMD) are designed to bring that visibility and actionability to your fleet.

The Anatomy of a Dell Trusted Device

Benefits

- Be secure from first boot with rigorous supply chain controls
- Maintain BIOS integrity with deep, firmware-level visibility
- Protect end-user identity from malware that looks to steal credentials
- Enrich OS-level data with 'below-the-OS' telemetry to speed detection, response and remediation

Improve security with PC telemetry

Shrink the IT-security gap and enrich software solutions with below-the-OS insights. Only Dell integrates PC telemetry with industry-leading software providers to improve fleet-wide security.[1]
Learn more →

Maintain BIOS integrity

Catch and repel threats with Dell-unique quantum-resilient BIOS verification. Assess a corrupt BIOS, repair it and gain insights that reduce exposure to future threats with BIOS Image Capture.[1]
Learn more →

Spot ticking timebombs

Indicators of Attack, an early-alert feature offered only by Dell, scans for behavior-based threats before they can do damage.[1] Learn more →

Verify firmware integrity

Dell-exclusive firmware verification protects against unauthorized access to and tampering of highly privileged firmware.[1]

Catch known vulnerabilities

Dell-unique Common Vulnerabilities and Exposures (CVE) Detection and Auto Remediation monitors for publicly reported BIOS security flaws and recommends updates to mitigate risk.[1]
Learn more →

Secure end user credentials

Verify user access via Dell SafeID with ControlVault, a unique, dedicated security chip that keeps user credentials hidden from malware. *FIPS 140-3 Level 3 certified.*[1]
Learn more →

Be secure across the PC lifecycle

Rigorous, state-of-the-art supply chain controls and optional add-ons, like Dell-unique Secured Component Verification, provide assurance of PC integrity upon delivery and throughout its lifetime.[1]
Learn more →

INDUSTRY LEADERSHIP

No PC manufacturer offers the BIOS-level visibility Dell does.[1]

Read Principled Technologies' studies →
Dell on Intel | Dell on AMD


A Principled Technologies report: In-depth research. Real-world value.

Security features in Dell, HP, and Lenovo PC systems: A research-based comparison

Approach

Dell™ commissioned Principled Technologies to investigate nine security features in the PC security and system management space. We conducted our research from April 15, 2025 to June 24, 2025.

- Prevention, detection, and remediation solutions
  - Signed manifest of factory configuration
  - BIOS verification on demand via off-host measurements
  - Intel Management Engine firmware verification via off-host measurements
  - BIOS image capture for analysis
  - Early and ongoing attack sequence detection
  - Common vulnerabilities and exposures detection and remediation
  - User credentials storage via dedicated hardware
- Integrated hardware and software security solutions
  - Hardware-assisted security with Dell, Intel, and CrowdStrike
  - Below the-OS telemetry integration

These features rely on manufacturer-enabled communication between the hardware and the operating system (OS). We reviewed publicly available marketing claims and feature documentation for three Windows original equipment manufacturers (OEMs) based on Intel® Core™ Ultra processor with Intel vPro®: Dell, HP, and Lenovo®. Many of the Dell features relate to the Dell Trusted Device (DTD) application or the newer Dell Client Device Manager (DCDM), which consolidate and extend DTD's capabilities for enterprise fleet management. DCDM

Explore Dell Trusted Devices


Laptops


Desktops


Workstations

Secure anywhere-work with Dell Trusted Workspace

Built-with & Built-in Hardware Security

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Sources and disclaimers

[1]Based on third-party analysis by Principled Technologies when comparing Dell commercial AI PCs vs. HP and Lenovo. Applicable to PCs on Intel (July 2025) and on AMD (April 2026) processors. Backed by Dell internal analysis of worldwide PC market. Not all features available with all PCs. Additional purchase required for some features.

[2]Source: Futurum Group, Endpoint Security Trends, 2023.

[3]Source: Enterprise Strategy Group, a division of TechTarget, Custom Research Survey Commissioned by Dell Technologies, *Assessing Organizations' Security Journeys*, November 2023.

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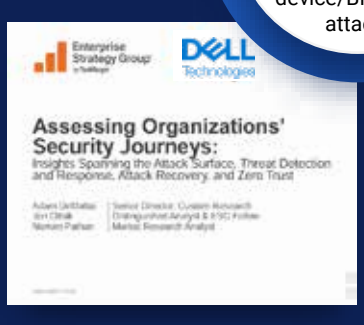

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