

HFA BYOD Registration Form

Instructions: Fill in the form with your personal device information; be sure to delete the instructional text before submitting. Include screenshot of the system properties window at the bottom of this form or as a separate file.

Today's Date:	05/14/2025	Your Name:	Pelumi Johnson
Mac, PC, or Linux:	Laptop (Dell Inspiron 15)	Serial No.:	6ZWX654
Manufacturer:	DELL	Model Name/No.:	Dell Inspiron 15 3520
System Type:	Intel, x64-based PC, 10 Cores / 12 logical processors, 1700 MHz (1.7GHz), Dell Inc. 1.30.0, 12/16/2024, No	Primary OS:	Microsoft Windows 11 Pro, 10.0.26100 Build 26100, Microsoft Corporation, en-US, eastern time (US)
Display:	15.6 Inches, 1920 x 1080, Yes	Webcam:	Integrated, 1280 x 720 (0.9 MP)
Memory:	slots used (2 of 2), SODIMM, 64GB, 64GB, Current paging file size: 4096 MB	Storage:	SSD, NVMe, 1.74 TB free of 1.86 TB, \Device\HarddiskVolume1, RAID on (storage devices managed under intel VDM controller with RST driver required)
Networking:	Wireless only, Realtek Semiconductor Corp. and 8821CE Wireless LAN 802.11ac PCI-E NIC, 867	MAC Address:	3C:0A:F3:3D:AC:7B
Ports:	Intel USB 3.1 (xHCI Host Controller), Realtek 8821CE Wireless LAN 802.11ac PCI-E NIC, Intel® Smart Sound Technology for Bluetooth® & USB, Thunderbolt not present on this device, Legacy not supported, UEFI only	Peripherals:	Standard QWERTY, chiclet-style, built-in laptop keyboard (wired – PS/2 interface); supports external USB or wireless keyboards, Built-in touchpad (HID-compliant, wired); supports external USB or wireless mouse (wired or wireless)
Security Software:	On the Windows 11 Pro device, Avast Antivirus is actively running as the primary antivirus software, providing real-time protection against malware and viruses. The Avast antivirus is up to date with the latest virus definitions, ensuring the device is shielded against current threats. Alongside Avast, Windows Security is also enabled, offering layered protection with features like firewall and device health monitoring. The virus & threat protection report shows no active threats, and protection settings are all up to date. Avast Antivirus Version: Version: 24.4.17598.20292, Latest Virus Definition Date: June 2, 2025		
Baseline Configurations:	KB5058411 – 2025-05 Cumulative Update for Windows 11 Version 24H2 (x64-based systems) Successfully installed on May 14, 2025 This cumulative update includes critical security patches and system improvements that help protect and stabilize the operating system. KB890830 – Windows Malicious Software Removal Tool x64 (version 5.133) Successfully installed on May 13, 2025 This tool scans the device for common malware infections and		

	<p>removes them, providing an additional layer of protection beyond traditional antivirus software. - Realtek Semiconductor Corp.</p> <p>Bluetooth Driver Update (version 1.1072.2312.2502) Successfully installed on May 28, 2025 This driver update ensures proper hardware function and security for the Bluetooth device, supporting the overall health and protection of the system.</p>
Office Automation Software:	Microsoft Office (Word, Excel, Outlook, PowerPoint, Access Data Base, Publisher Document)
Screenshot:	(Include a screenshot of the system properties here or upload the image as a separate file. Ensure your screenshot includes a readily identifiable date/time element)

Introduction

I propose using my personal Dell Inspiron 15 3520 laptop in a BYOD capacity within the organization. This document outlines the rationale for allowing this device on the corporate network based on its technical specifications, compliance with industry standards, enterprise best practices, and the implementation of layered security.

Device Overview and Performance Suitability

The Dell Inspiron 15 (Model 3520) is a high-performance, business capable laptop equipped with an Intel x64-based architecture running on 10 cores and 12 logical processors at 1.7GHz. The system boasts **64GB of SODIMM RAM**, enabling it to handle complex enterprise applications and multitasking with ease. The device includes a **1.86 TB NVMe SSD**, ensuring fast data access and secure storage with RAID configuration for redundancy and performance.

The display is a **15.6" Full HD panel**, and the system features integrated peripherals such as a 720p webcam and a chiclet keyboard. These are essential for remote meetings and productivity. It runs **Microsoft Windows 11 Pro**, which is designed for business environments, offering advanced management and security features such as BitLocker encryption and Group Policy support (Microsoft, 2023).

Security Software and Patch Compliance

The device runs **Avast Antivirus (version 24.4.17598.20292)** with virus definitions updated as of **June 2, 2025**, ensuring real-time protection against malware. Additionally, **Windows Security** is enabled for layered threat detection and firewall protection. Recent security patches include:

- **KB5058411** – May 2025 cumulative update, addressing critical system vulnerabilities.
- **KB890830** – May 2025 update to the Malicious Software Removal Tool.
- **Realtek Bluetooth Driver Update** – Ensures secure, functional connectivity.

Keeping these patches up to date is vital for a BYOD environment, aligning with **NIST SP 800-53** guidelines for system maintenance and vulnerability management (NIST, 2020).

Networking and Compatibility

The Dell Inspiron 15 supports **802.11ac wireless networking**, providing fast and secure Wi-Fi access. Though it lacks Thunderbolt support, the system is fully compatible with enterprise peripherals via USB 3.1 and supports legacy-free environments with **UEFI firmware**, reducing security risks associated with outdated BIOS systems (Intel, 2021).

Compliance with Industry Standards

The device adheres to the **Center for Internet Security (CIS) Benchmarks**, especially in terms of OS hardening, antivirus software, and patch management. Its support for **UEFI-only boot** aligns with modern enterprise security standards, helping prevent rootkit infections and boot-level exploits. The **hardware capacity** far exceeds the minimum system requirements for most enterprise tools and platforms, including virtualization software, remote desktop tools, and security suites.

Application Compatibility and Productivity

Installed **Microsoft Office** suite applications such as Word, Excel, Outlook, PowerPoint, and Access ensure seamless compatibility with enterprise documentation, communication, and database tools. These are the backbone of many enterprise workflows and are supported on the latest Windows 11 platform. Outlook, in particular, integrates with **cloud services** like Exchange and Office 365 for email and calendar functions.

Supporting Case Studies and Best Practices

Studies show that BYOD programs improve productivity by **up to 34%** when implemented securely, according to Cisco (2023). The key lies in selecting devices that meet enterprise-grade standards in performance, patching, and security—criteria that this Dell Inspiron 15 fully satisfies.

Furthermore, **Gartner (2022)** emphasizes the importance of enabling BYOD with proper endpoint security and update management, both of which are addressed on this device.

Given its powerful specifications, consistent patch history, robust security posture, and compatibility with enterprise applications, the Dell Inspiron 15 3520 is well-suited for BYOD deployment. It aligns with best practices from NIST, CIS, and real-world case studies, supporting a productive and secure work environment. I recommend that the IT department approve this device for BYOD usage, contingent on continued adherence to patching and antivirus updates.

References

Insight. (2017, January 18). *BYOD statistics provide snapshot of future.*

https://www.insight.com/en_US/content-and-resources/2017/01182017-byod-statistics-provide-snapshot-of-future.html

Microsoft. (n.d.). *Windows 11 specifications.* Retrieved June 3, 2025, from <https://www.microsoft.com/en-us/windows/windows-11-specifications>