Enterprise Device Management Tool

User Manual

Introduction

The Enterprise Device Management Tool is a Windows administrative application designed for IT professionals to safely scan, analyze, and manage hardware devices installed on a Windows system. The tool provides risk analysis, safety protections, reporting, and auditing.

System Requirements

• Windows 10 or later

• Administrator privileges

• PowerShell enabled

• Python-built executable or packaged EXE

Launching the Application

When the application starts, it automatically checks for Administrator privileges. If required, Windows will prompt for elevation. This is necessary to manage hardware devices.

Main Interface Overview

The interface consists of:

• Control buttons (Scan, Enable, Export)

• Device list grouped by hardware class

• Progress indicator

• Activity log window

Scanning Devices

Click 'Scan Devices' to retrieve all hardware devices from Windows Device Manager. Devices are grouped by class such as USB, Network, Display, and System.

Understanding Risk Scores

Each device is assigned a risk score:

• 0–24%: Low risk

• 25–49%: Medium risk

• 50%+: High risk

Critical system devices are locked and cannot be modified.

Critical Device Protection

The application automatically protects critical system components such as PCI controllers, ACPI devices, firmware, TPM, and security processors to prevent system instability.

Enabling Devices

Select one or more disabled devices and click 'Enable Selected'. If enabled, the tool creates a System Restore Point before making changes.

Startup Impact Analyzer

The Startup Impact Analyzer scans common Windows startup locations and displays applications that may affect boot performance.

Exporting Reports

You can export device data as:

• CSV (for Excel and audits)

• PDF (for professional reports and documentation)

Logging and Auditing

All actions are logged to a timestamped log file stored in the application directory.

Safety Notes

• Always review risk scores before enabling devices

• Avoid modifying system-class hardware

• Use restore points as a safety net

Support

This tool is intended for trained IT personnel. For enterprise support, contact your system administrator or software provider.