

What things are under my control?

CSC 1: Inventory and Control of Hardware Assets

Start simple, request a CSV export from your purchasing vendor and an internal list from your purchasing department. Match those records up against what you gather from in the ARP tables on your WiFi access points and network switches.

Configuration management tools such as Ansible and SaltStack have integrated NAPALM (Network Automation and Programmability Abstraction Layer with Multivendor support) to gather facts. They can return to you some well-formatted JSON output ready to be compared to your records.

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More aggressively, you can analyze your local network with tools such as Nmap with Wireshark or tcpdump running. After that, piece together your spreadsheets based on a device serial number and MAC address.

Alternatively, you can run a passive discovery tool, such as tcpdump running on a SPAN or mirror port on a switch feeding into the Passive Network Audit Framework (PNAF). This tool unites others such as p0f and prads and a wide range of other tools.