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RISKIEST CONNECTED DEVICES IN 2025

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Devices

- 19+ million monitored devices
- 39+ billion unique data points
- 6,500+ unique vendors
- 2,300+ unique OS versions

Threats

- 900+ million attacks
- 100,000+ malware samples
- 100+ ransomware group leak sites
- 20+ C2 types monitored on the Internet

Live data

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Defining Risk





The Riskiest Devices in 2025

	IT	ΙοΤ	ОТ	ΙοΜΤ
1	Application Delivery Controller (ADC)	Network Video Recorder (NVR)	Universal Gateway	Imaging Devices
2	Intelligent Platform Management Interface (IPMI)	Network Attached Storage (NAS)	Historian	Lab Equipment
3	Firewall	VoIP Systems	Building Management System (BMS)	Healthcare Workstations
4	Domain Controller	IP Camera	Physical access control systems	Infusion Pump Controller
5	Router	Point of Sale (PoS) Systems	Uninterruptible Power Supply (UPS)	Picture Archiving and Communication System (PACS)

Riskiest IT Devices

#	Device
1	Application Delivery Controller (ADC)
2	Intelligent Platform Management Interface (IPMI)
3	Firewall
4	Domain Controller
5	Router

- ADC, firewall and router: network infrastructure
 - Network infrastructure risk surpassed endpoint risk in 2024 and continued that way in 2025
 - Devices that sit at the perimeter ("edge") of the network
 - No security agents
 - Limited telemetry / visibility
 - Lots of vulnerabilities being found and exploited very quickly

IPMI, domain controller

- Server technologies
- That's where the data lives, part of the "crown jewels"



Riskiest IoT Devices

#	Device
1	Network Video Recorder (NVR)
2	Network Attached Storage (NAS)
3	VoIP Systems
4	IP Camera
5	Point of Sale (PoS) Systems

• NVR, VoIP and IP camera

- Often exposed online
- Lots of vulnerabilities, open ports, weak credentials, bad segmentation, ...
- Long history of being exploited by threat actors cybercriminals and APTs

• NAS

• Same as above, but also targeted by specific ransomware

• PoS

 Historically a prime target for cybercriminals with dedicated malware to steal financial data

Riskiest OT Devices

#	Device
1	Universal Gateway
2	Historian
3	Building Management System (BMS)
4	Physical access control systems
5	Uninterruptible Power Supply (UPS)

Universal Gateways

- Interconnect disparate systems, sometimes Ethernet and serial
- Potential for lateral movement in OT networks

Historians

- Store operational process data
- Involved in 10% of OT incidents in 2024 (SANS ICS survey)
- IT/OT, just like engineering workstations

BMS and Access Control

- Deployed in facilities throughout the world, often exposed
- UPSs present in many data centers and other facilities with default credentials

Riskiest IoMT Devices

#	Device
1	Imaging Devices
2	Lab Equipment
3	Healthcare Workstations
4	Infusion Pump Controller
5	Picture Archiving and Communication System (PACS)

- Imaging devices often connected to PACS and using the DICOM standard for file storage and communication
 - Lots of interconnections, often older operating systems
 - DICOM is very popular but also very risky

Lab equipment used in diagnostics

- Usually runs specialized operating systems
- Possibility for data exfiltration and tampering

Healthcare workstations

Handle clinical data and are perfect targets for ransomware

Infusion Pump controllers

Directly connected to patients, so attacks can be critical

Risk by Industry



- Retail at the top
- Industry-wide risk increased by 15%
- The gap in risk scores between industry sectors is now minimal

Risk by Country



- Spain, China and UK at the top
- Average risk per country increased by 33%
- Differences between countries also small

Operating Systems





- Special-purpose OSes more prevalent than mobile across all industries
 - Highest in healthcare, government and manufacturing
- These OSes grew significantly YoY
 - Highest increase in government (from 8.6% to 14%)
- Legacy Windows remained most common in government, healthcare and manufacturing
 - Every industry decreased legacy Windows, except government

Windows 10



- Across all industries, more than 50% of non-legacy Windows devices still run Windows 10
 - Regular support ends in October 2025
- Retail and healthcare around three quarters of devices
- Significant costs to extend security support for the next three years
 - Potential for increase in legacy OSes next year

Open Ports

60%



Open Ports by Industry

- Encrypted SSH declined, while • unencrypted Telnet increased in every industry
 - Government saw the largest growth • (2% to 10%)
- SMB increased in financial • services and government
 - **Declined** elsewhere •
- RDP grew in financial services, • healthcare and manufacturing
 - Decreased in government and retail •

Vulnerabilities

Most Vulnerable Devices





- Most frequently vulnerable devices are computers, routers and wireless routers/access points
- Over 50% of devices with the most critical vulnerabilities are routers

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