

2025 Cybersecurity Landscape for Manufacturers:

Risks, Threats, and Best Practices



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01	Factors contributing to the rise of r	manufacturing b	reaches
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- Who is attacking manufacturers
- **03** What are they doing
- How are they doing it
- **05** Best practices

Poll Question 1

Manufacturers have become the most targeted vertical

2023

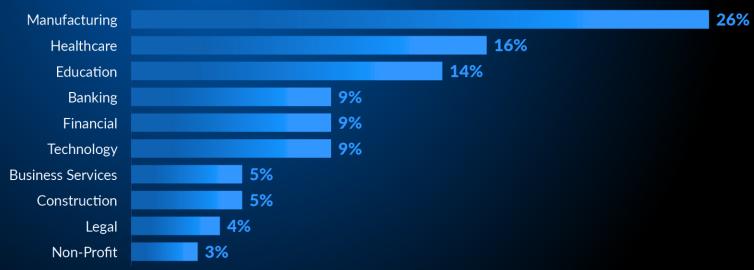
Manufacturing was the 3rd most targeted vertical worldwide

Determined by a normalized calculation of alerts generated, confirmed breaches, and incident response cases

2024

Manufacturing is now the #1 most targeted vertical

- By a vast margin (in some areas by as much as a 2.6X ratio) across
 20+ verticals
- Manufacturing is #1 in alerts generated and confirmed threats detected
- Manufacturing is #1 most engaged vertical for Incident Response cases





Manufacturers Beware

Factors contributing to the rise of breaches

- 1 Legacy perimeter threats leveraged against a "perimeter-less" world
- 2 Targeting from nation-state actors that want to be leaders in manufacturing
- 3 Manufacturing is at the root/foundation of the supply chain
 - Collateral damage associated with the final target
 - Willingness to negotiate centered around the need for "zero downtime"

You Are All Aware of the Problem

Let's discuss the important details



Who are the Threat Actors



What are they doing?



How are they accomplishing their goals?



How do we prepare or prevent these situations?

Who?

Threat Actors

The Usual Suspects, Defined





Threat Actors

Key players in manufacturing

Nation States

China

Iran

Russia

North Korea

DRIVERS

Espionage, Political Influence, Data Theft, Destruction

Ransomware "Gangs"

Akira

Play

Black Basta

Lockbit

DRIVERS

Financial Gain,
Data Theft

BEC Groups

Individual Threat Actors

Loose Associations

Opportunistic "watering holes"

Less Sophisticated

DRIVERS

Financial Gain,
Data Theft,
Social Engineering

Hacktivists

CyberVolk

Z-Pentest

Anonymous (questionable)

DRIVERS

Political Activism, Retaliation, Advocacy

Top 4 most active Threat Actors

From our data

LOCKBIT

- 775 Victims in 12-month period
- Manufacturing was 20% of their victims
- Averages 65 posts per month on leak site
- Median starting demand \$1M USD

PLAY

- 386 victims in 12 months
- Manufacturing was 19%, Construction 18% of their victims
- Averages 32 posts per month on leak site
- Median starting demand \$5.6M USD

AKIRA

- 215 victims in 12 months,
- Manufacturing was 23% of their victims
- Averages 19 posts per month on their leak site
- Median starting demand \$325,000 USD

BLACK SUIT

- 116 Victims in 12 months
- Manufacturing was 15% of their victims
- Averages 10 posts per month on leak site
- Median starting demand \$650,000 USD

What?

Top 3 manufacturing incident types in 2024

Threat Actor Goals



58%*

Ransomware and Data Extortion



23%

Business Email Compromise



19%

Network or Host Intrusion

10% drop in profits from

lost revenues for the

following 3 months ^{2,4}

3% lower stock price after

6 months³,

The high cost of ransomware

96% of ransomware incidents included data exfiltration*

94% of those who suffered a ransom event experienced a period of significant downtime and delays in productivity**

50% of ransomware victims reported productivity impacts of four months to a year following the attack**

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Organizations with \$500M+ Annual Revenues



50% of employees not

producing for 22 days

22 days of lost profits¹

^{*}Arctic Wolf 2025 Threat Report

^{**}The State of Cybersecurity: 2024 Trends Report

BEC Stats

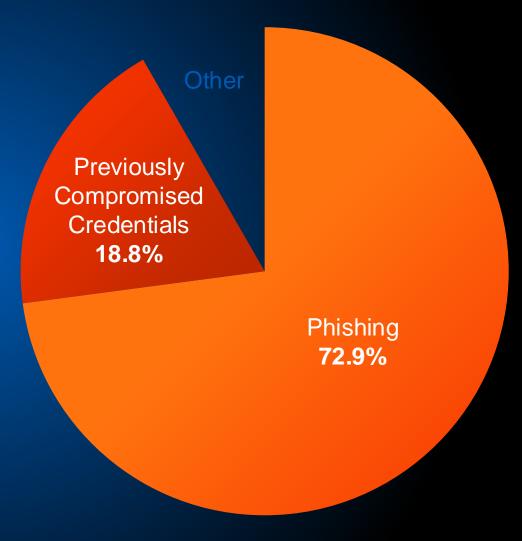
BEC incidents are the second-largest cause of IR cases:

Business email compromise was the primary impacting factor in 27% of our IR incidents

Phishing awareness and access controls are strong preventative measures:

Phishing (72.9%) and previously compromised credentials (18.8%) are the leading root causes of BEC cases, pointing to employee training, credential management, and biometric or possession-based MFA as effective defenses.

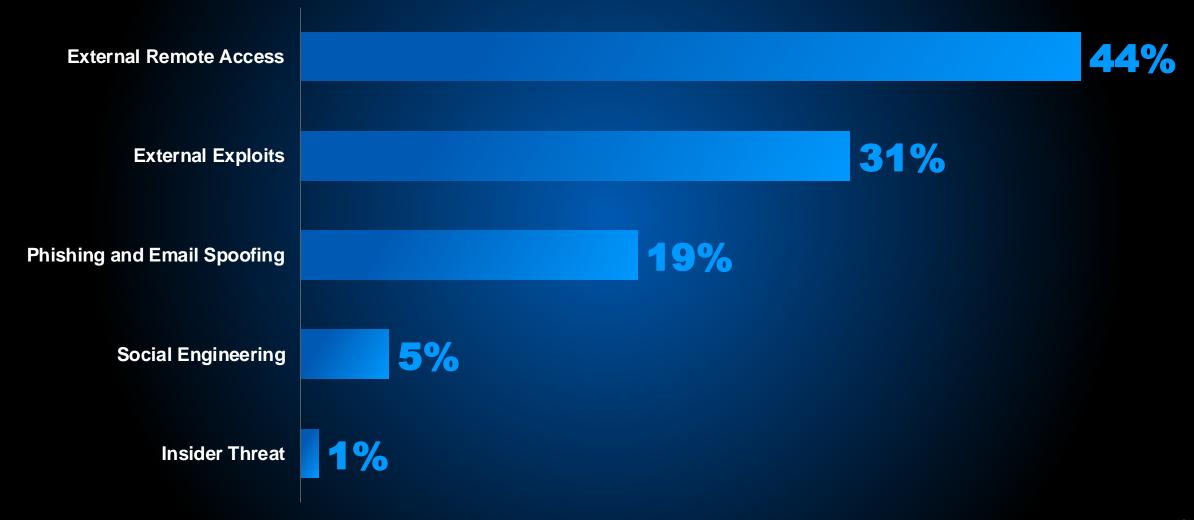
*Arctic Wolf 2025 Threat Report



How?

Poll Question 2

Top 5 RPOCs in Manufacturing 2024



Manufacturing leads all industry verticals in External Remote Access and External Exploits used as RPOC

Best Practices

Safeguarding your business



Secure remote access

- Enforce MFA and change default passwords!
- Limit access through segmentation and least privilege
- Monitor these tools 24/7 and update/patch regularly



Limiting effectiveness of external exploits

- Implement robust & redundant patch management process
- Minimize attack surface with network hardening
- Leverage threat detection and prevention technology

Poll Question 3

Thank You

Contact Us

Our cybersecurity experts are ready to help.

REQUEST A DEMO

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OT and Automation

Manufacturing networks are made up of a range of devices, including OT (smart) devices and specialized network devices

"Secure the path to OT rather than OT itself"