

The Urgent Need for Critical Infrastructure Cybersecurity

"Every organization – large and small – must be prepared to respond to disruptive cyber activity."

– CISA Shields Up warning

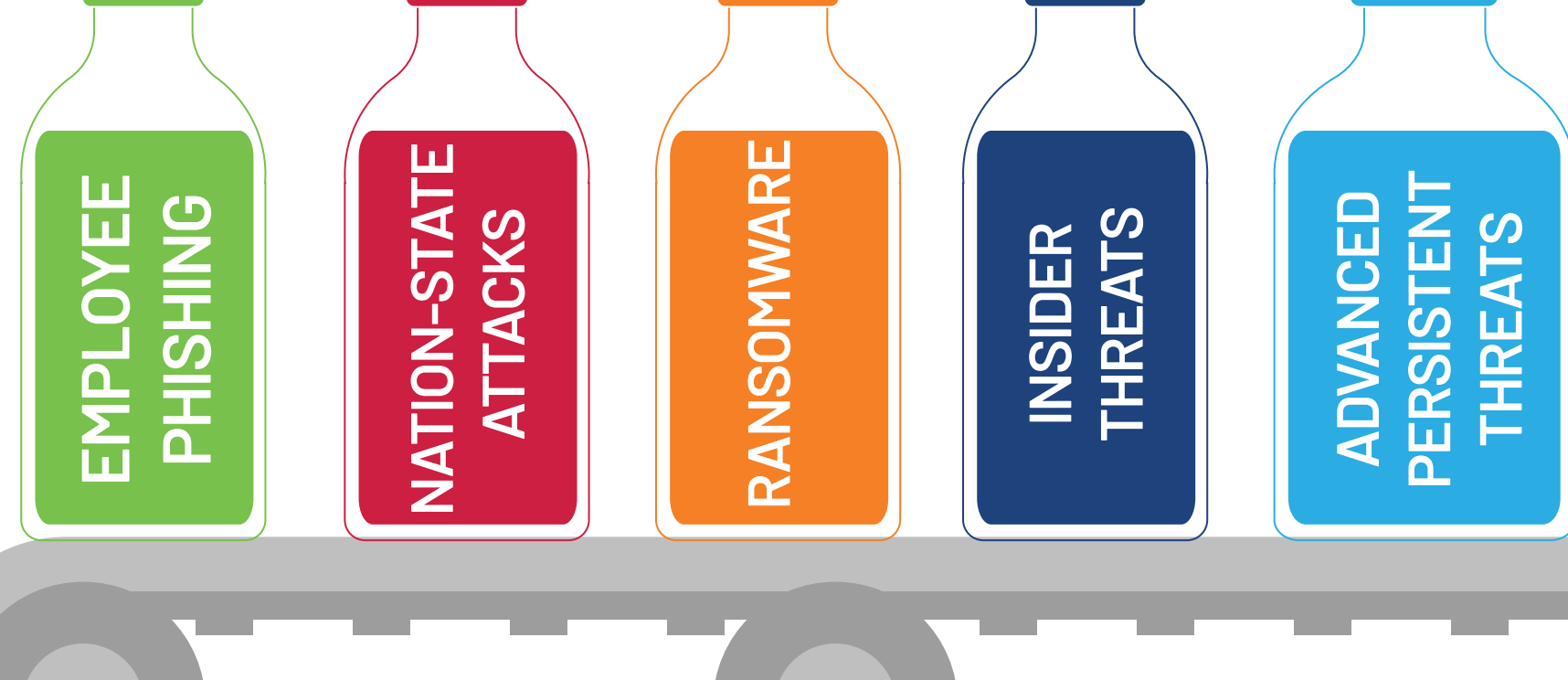
ICS + IT =

EXTREME EFFICIENCIES + **NEW CYBERSECURITY THREATS**

New connections require new protections for Industrial Control Systems (ICS).

Prioritize action with the **Power of 5.**

5 THREATS TO CRITICAL INFRASTRUCTURE



SEGMENT NETWORKS, ESPECIALLY BETWEEN IT & OT

ADD CONTINUOUS THREAT MONITORING

5

PROTECTIONS TO DEPLOY ASAP

CREATE & PRACTICE AN INCIDENT RESPONSE PLAN

AUDIT NETWORK INVENTORY FREQUENTLY

ASSESS RISKS & VULNERABILITIES

5 CYBERSECURITY FOCUS AREAS

IDENTIFY

Review risks impacting cybersecurity. Expose every item connected to networks. Perform penetration testing to reveal hidden vulnerabilities. [Plant-floor assets](#) | [Controllers](#) | [Laptops](#) | [Mobile devices](#) | [IoT sensors](#) | [Security cameras](#) | [USBs](#) | [Supply chain](#)

PROTECT

Using insights gained in the Identify step, architect appropriate security controls. [Network segmentation](#) | [Multi-factor authentication](#) | [IDMZ deployment](#) | [Secure ICS Protocols](#) | [Firewalls](#) | [Patching](#) | [Zero Trust policies](#) | [Employee awareness training](#)

DETECT

Gain real-time visibility into how, when, and where others are accessing or manipulating assets. [24/7 threat monitoring](#) | [Malware detection](#) | [Vulnerability scanning](#) | [Impact assessment](#) | [Daily asset inventories](#) | [Alerts and advisories](#)

RESPOND

Implement an incident response plan to stop breaches from expanding infection and damage. [Incident response](#) | [Containment](#) | [Mitigation](#) | [Communication planning](#) | [Tabletop exercises](#)

RECOVER

Put a plan in place to quickly regain normal operations after an incident. [Backup planning](#) | [Restoration](#) | [Investigation and analysis](#) | [Resilience planning](#)

5 REGIONAL / INTERNATIONAL CYBERSECURITY FRAMEWORKS

Australia
The Critical Infrastructure Centre (CIC) [Compliance Strategy](#) offers recommendations for Critical Infrastructure owners/operators.

European Union
The Network and Information Security (NIS) Directive ([EU 2016/1148](#)) is the EU's first EU-wide cybersecurity legislation.

Germany
[Plattform Industrie 4.0](#) is used to secure and expand Germany's robust manufacturing sector.

United Kingdom
The National Cybersecurity Center (NCSC) issued its [OT Security Design Principles](#) in 2020.

Global
The International Society of Automation (ISA) [ISA/IEC-62443](#) standard specifies security capabilities for control system components.

5 FACTS ABOUT \$1B+ IN U.S. CYBERSECURITY GRANTS

The bipartisan Infrastructure Investment and Jobs Act (IIJA) was signed into law in November 2021.

It authorizes \$1.2 trillion in funding and set aside billions of dollars for state and local governments.

New grants offer opportunities to upgrade Critical Infrastructure cybersecurity for everything from vulnerability assessments, to malware analysis or threat detection.

To be eligible for a grant, state or local agencies must submit a cybersecurity plan to the Department of Homeland Security (DHS), detailing technical capabilities and protocols for detecting and responding to cyberattacks.

Rockwell Automation offers cybersecurity assessment and planning services to help you obtain necessary grant funding.

5 NEXT STEPS TO TAKE

*Rockwell Automation:
Securing what the world relies on.*

Talk to a [Rockwell Automation OT Cybersecurity expert](#)

Take the [Cybersecurity Preparedness Assessment](#)

View our action plan on [How to Win a Critical Infrastructure Cybersecurity Grant](#) in the U.S.

Learn [How a Canadian Water Utility Company Improved Cybersecurity and Operational Resilience](#)

Discover the ultimate [Guide to Critical Infrastructure Cybersecurity](#)

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