

U.S. Department of Homeland Security

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# **CYBERSECURITY AND INFRASTRUCTURE SECURITY AGENCY**

**Region 1  
New Hampshire  
Jason Climer & Rick Rossi**



# Our Work

The Cybersecurity and Infrastructure Security Agency (CISA) is the Nation's risk advisor, working with partners to defend against today's threats and collaborating to build more secure and resilient infrastructure for the future



PARTNERSHIP  
DEVELOPMENT



INFORMATION AND  
DATA SHARING



CAPACITY BUILDING



INCIDENT  
MANAGEMENT  
& RESPONSE



RISK ASSESSMENT  
AND ANALYSIS



NETWORK DEFENSE



EMERGENCY  
COMMUNICATIONS

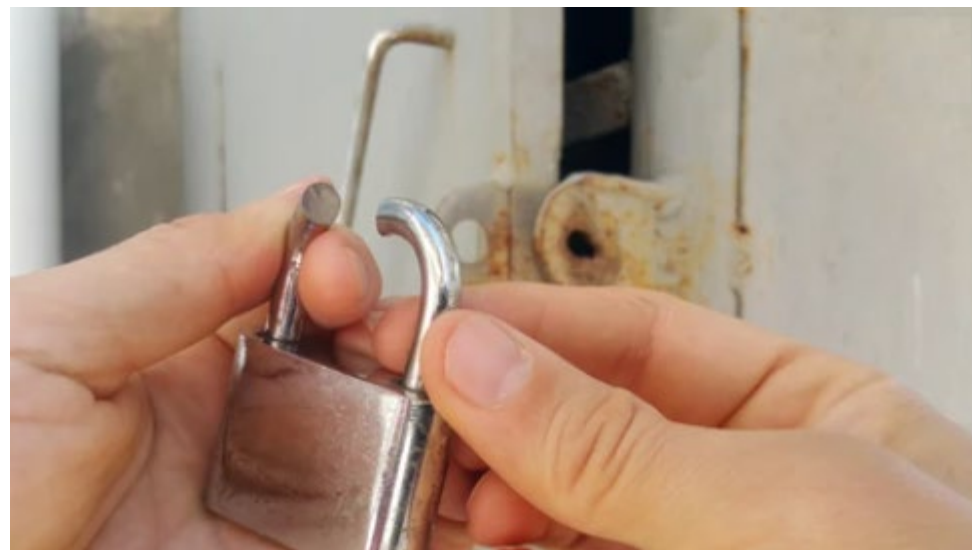


# ***Setting the Scene***

# Monday Morning after a Holiday Weekend...



Employee Entrance



Operational Control Area



# Monday Morning after a Holiday Weekend...



- Do you call security and the police?
- Do you inventory the compromised area to determine if anything is missing?
  - This may be your entire office including operational equipment for the water or wastewater system.
- What else would you consider doing in this situation?



# Monday Morning after a Holiday Weekend...



- Would you ever consider calling your IT department?
- Why would that be a consideration?
- How can you tell if the intruder inserted a thumb drive into your network?
- Conversely, does security ever get called when a cyber incident or attack happens? Why would that be relevant?



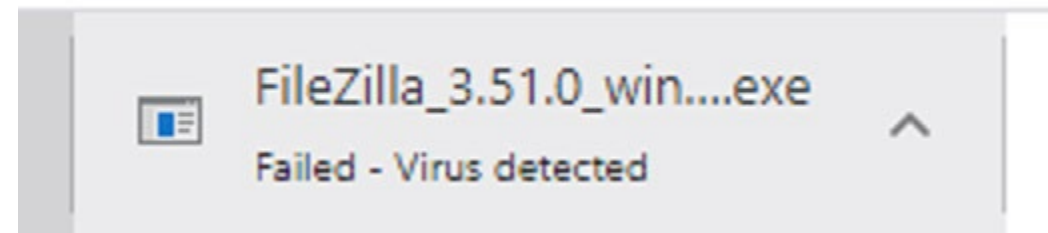


# What Happens when you Reverse the Scenario?



DEFEND TODAY.  
SECURE TOMORROW

	Class	Hostname	Message
<b>ALERT!</b>	MM_Directory	www.org	Suspicious directory cgi-bin
<b>ALERT!</b>	MM_Directory	www.org	Suspicious directory Admin
<b>ALERT!</b>	MM_InsecureCgi	www.org	Insecure cgi test-cgi
<b>ALERT!</b>	MM_InsecureCgi	www.org	Insecure cgi webadmin.passwd
<b>ALERT!</b>	MM_SuspiciousCgi	www.org	Suspicious cgi passwd



Would you ever consider calling physical security department?





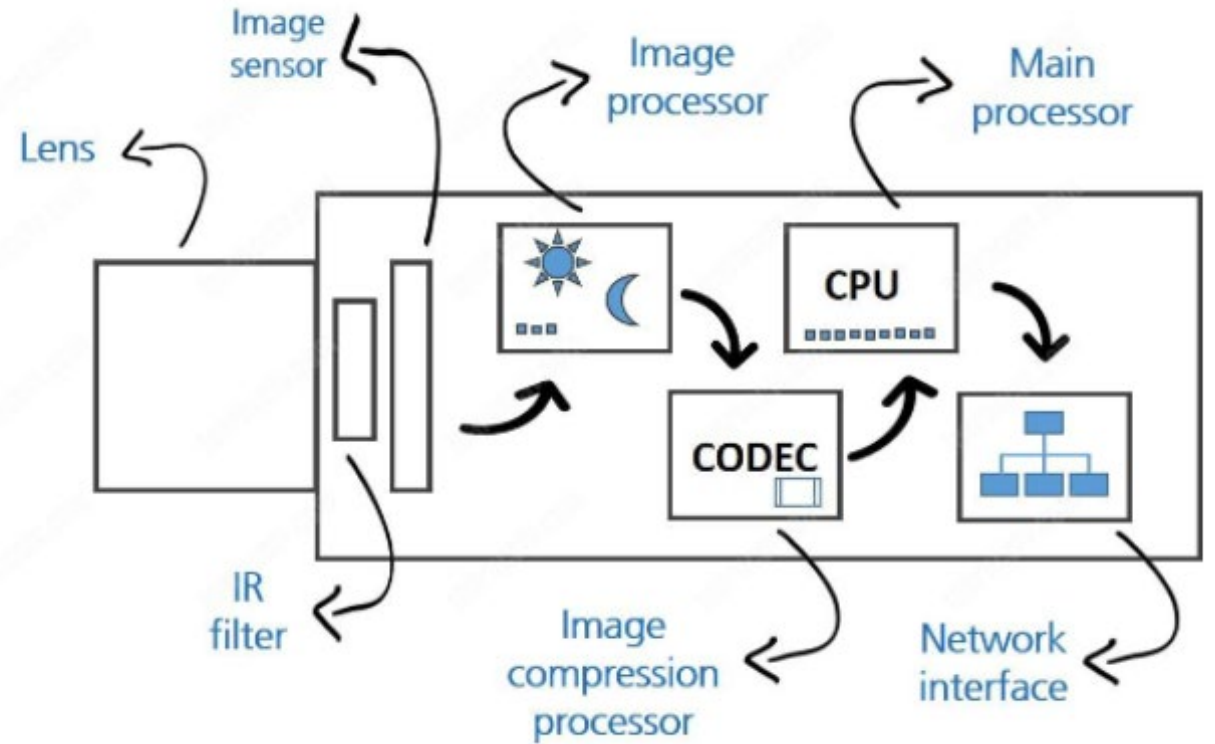
***Cyber-Physical Convergence***



# Is this Physical Security or Cybersecurity?



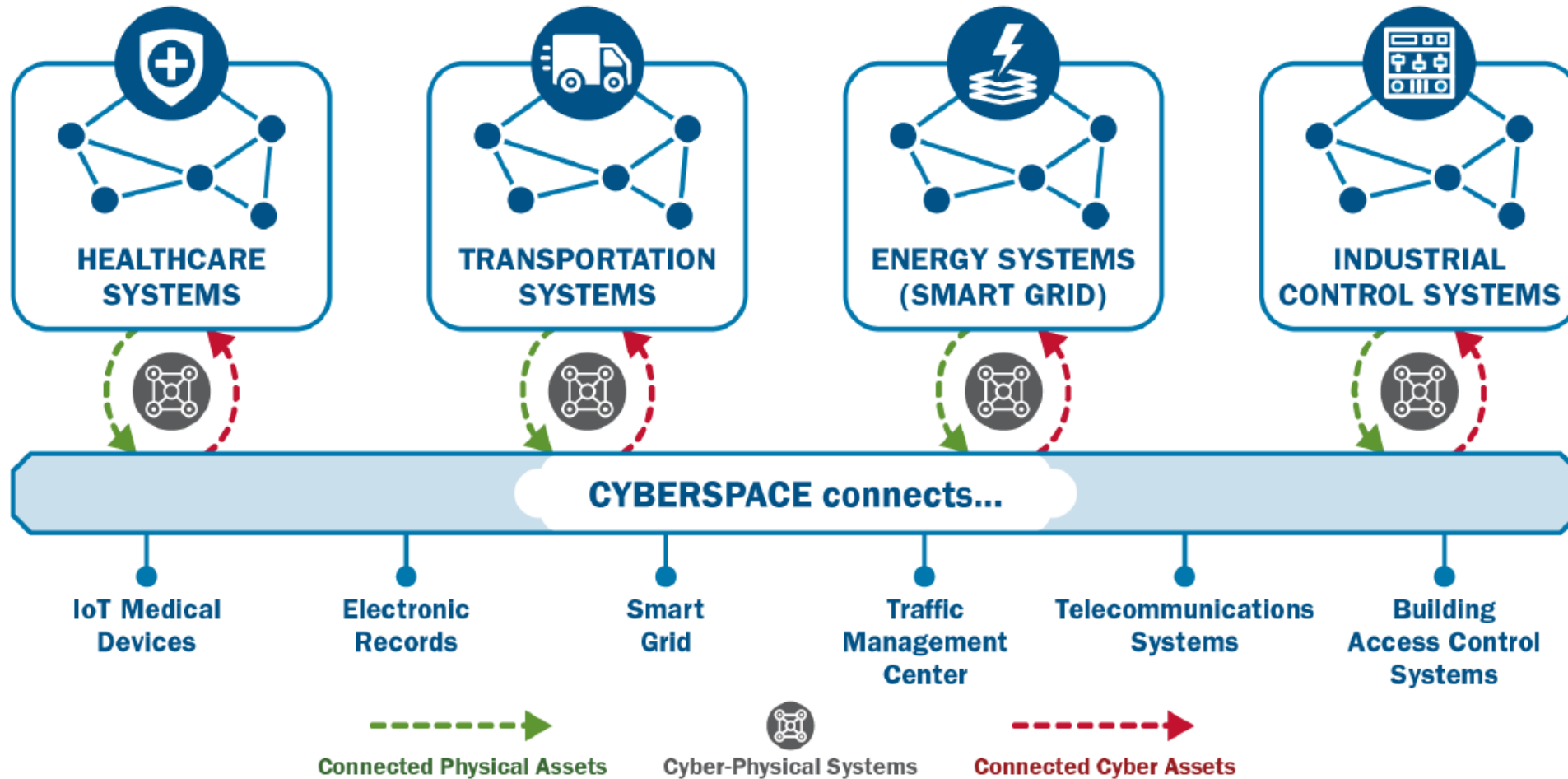
DEFEND TODAY.  
SECURE TOMORROW.



# A Connected Environment



DEFEND TODAY.  
SECURE TOMORROW







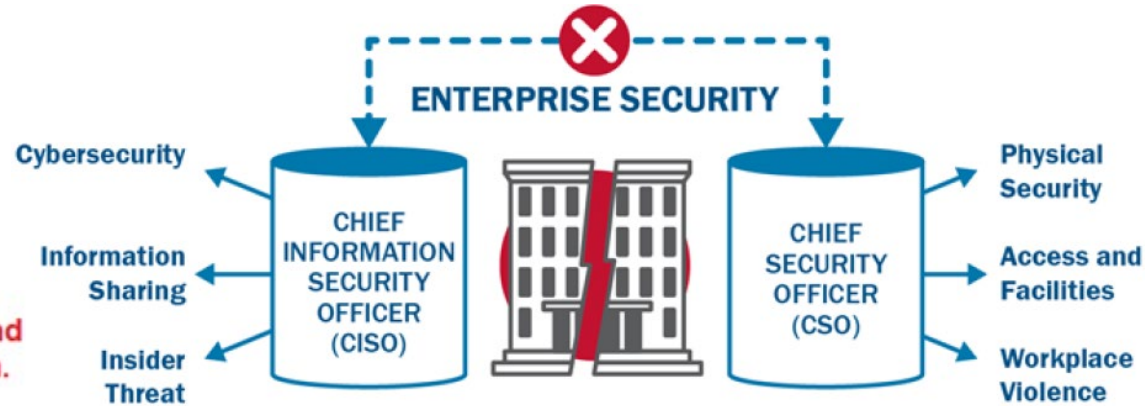
# The Challenge and the Solution



DEFEND TODAY.  
SECURE TOMORROW

## ORGANIZATIONAL CHALLENGE Siloed Security Functions

-  Lines of communication are unclear and impede coordination and collaboration.
-  Senior leaders and teams lack visibility of interconnected physical and cyber assets.
-  Organization is unable to quickly identify, prevent, and respond to complex threats.
-  Security functions operate independently with limited collaboration on enterprise-wide risks.



## ORGANIZATIONAL SOLUTION Converged Security Functions

-  Integrated security functions address cyber-physical infrastructure security
-  Senior leaders and teams communicate, coordinate, and collaborate.
-  Organization is prepared to prevent, mitigate, and respond to threats.
-  Holistic threat management ensures physical and cyber assets are secure.

### CONVERGED SECURITY FUNCTIONS





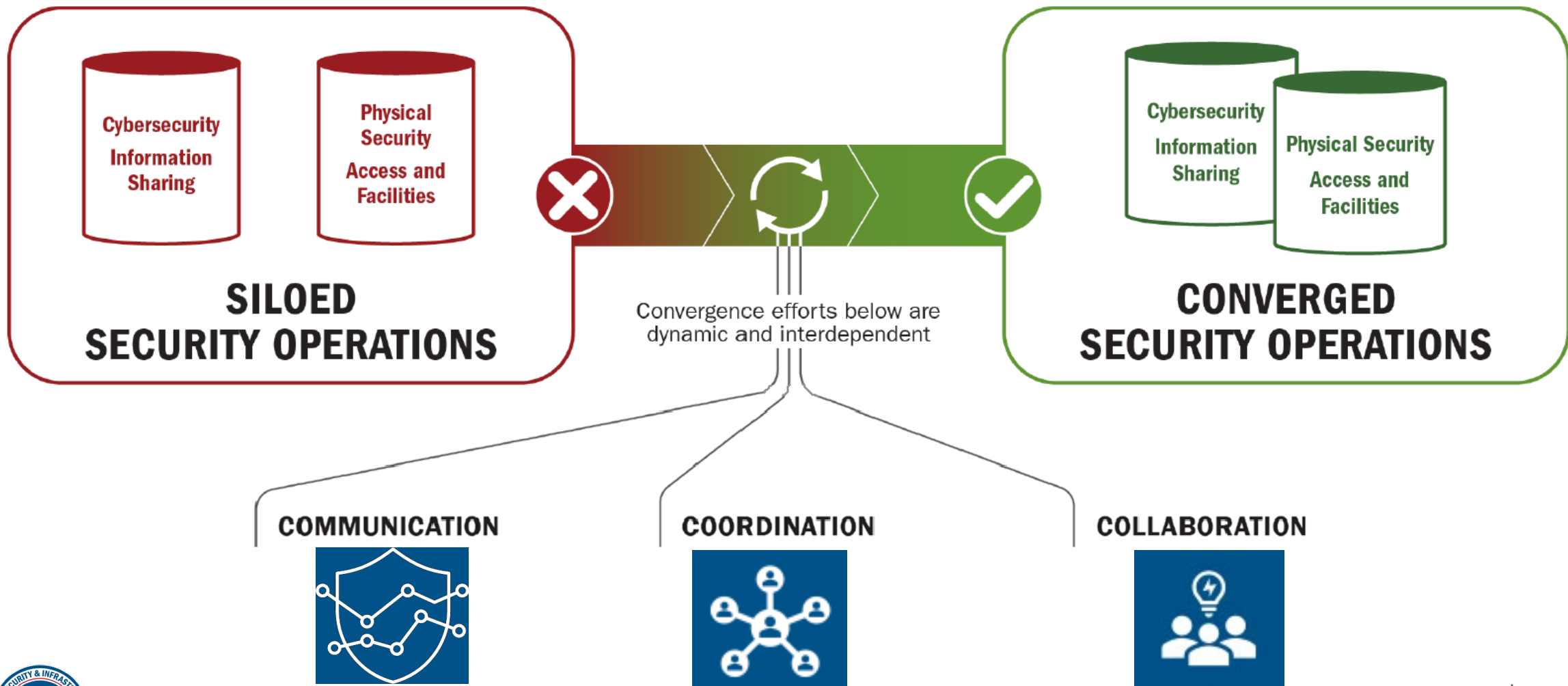
# Benefits of Convergence



DEFEND TODAY.  
SECURE TOMORROW



# Framework for Aligning Security Functions





***No Cost Resources***



# Cybersecurity Programs and Resources



## Preparedness Activities

- **Ransomware Readiness Assessment**
- Cybersecurity Training and Awareness
- Cyber Exercises and “Playbooks”
- Information / Threat Indicator Sharing
- National Cyber Awareness System

## Field-based Cybersecurity Advisors (CSAs)

- Incident response coordination
- **Cyber assessments**
- Working group collaboration
- Public-private advisory assistance
- Public Private Partnership Development
- Threat intelligence and information sharing
- Incident Response Plan Development
- Vulnerability Disclosure Plan Development

## Resources

- Cyber Essentials
- Bad Practices
- **Stuff off Search**
- Cybersecurity Evaluation Tool (CSET)
- StopRansomware.gov
- **Catalog of Known Exploited Vulnerabilities**
- STOP. THINK. CONNECT
- Joint Cyber Defense Collaborative



# PSA Programs and Resources



## Capability Summary

- Vulnerability assessment
- Advisory services
- Information sharing
- Guidance/standards development
- Regulatory administration
- Inspections
- Technical assistance
- IT tools and services
- Training
- Exercises
- Coordination and management
- Capability/requirements assessment
- Security planning

## Program Summary

- Soft Targets and Crowded Places
- School Safety
- Bombing Prevention
- Protective Security Advisors
- Chemical Facility Anti-Terrorism Standards (CFATS) and Chemical Security
- TRIPwire
- Interagency Security Committee
- Vulnerability Assessments and Regional Risk Assessments
- IP Gateway and Homeland Security Information Network-Critical Infrastructure
- Sector Expertise
- National Infrastructure Protection Plan (NIPP) Management
- Security Training & Exercises
- Incident Response & Recovery Programs



Jason Climer & Rick Rossi  
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# NH Contacts



## CISA Contact Information

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