

### FEBRUARY 5 - 6 • LOS ANGELES, CA

# SMART PORTS (INFORMATION TECHNOLOGY)

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Recent Cyber Attacks in Louisiana

- 7 School Systems July 2019
- Parish Governments August 2019 January 2020
- Law Enforcement Agencies August 2019 January 2020
- Institute of Higher Education August 2019
- State of Louisiana November 2019
- Baton Rouge Community College December 2019
- City of New Orleans December 2019
- New Orleans Convention Center January 2020
- ITI Technical College in Baton Rouge February 2020



## **Emergency Support Function 17**

#### 15 Emergency Support Functions (ESF)



- Transportation 1. Department of Transportation
- 2. Communications National Communications System



- 3. Public Works and Engineering **U.S. Army Corps of Engineers**
- 4. Firefighting Department of Agriculture/Forest Service



5.

Emergency Management Federal Emergency Management Agency



Mass Care, Housing, Human 6. Services Department of Homeland Security

American Red Cross





Public Health and Medical Services Department of Health and Human Services



Urban Search and Rescue Federal Emergency Management Agency

US Department of Agriculture/Department



10. Oil and Hazardous Materials Response Environmental Protection Agency

11. Agriculture and Natural Resource





12. Energy Department of Energy

of the Interior

13. Public Safety and Security Department of Homeland Security/Justice



- 14. Community Recovery, Mitigation, and Economic Stabilization U.S. Small Business Administration
- 15. External Communications Federal Emergency Management Agency

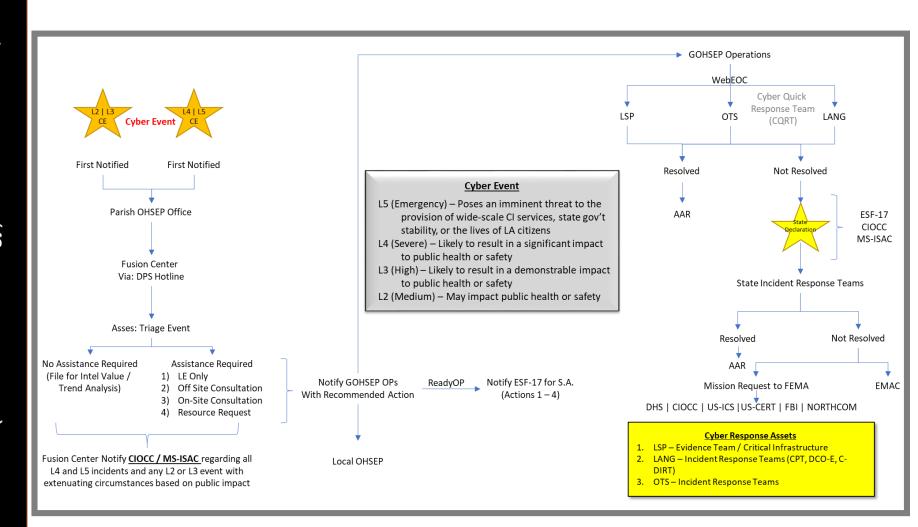


#### **Ports in Louisiana**





### **Cyber Event Notification**





#### **Recovery Planning Considerations**

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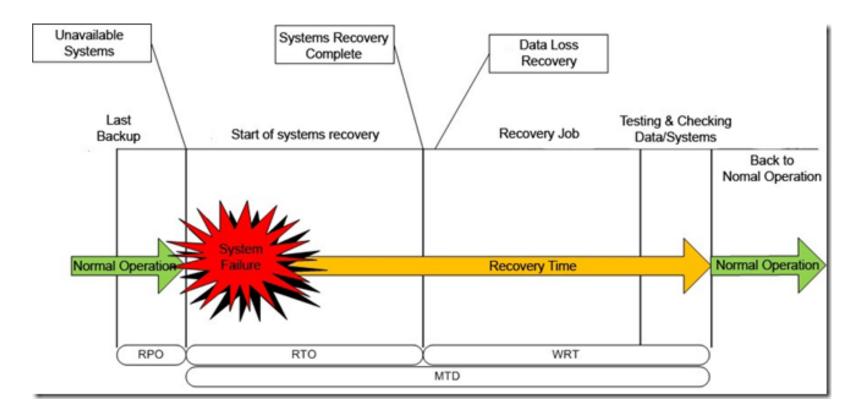
Identify	Category	Self Assessed Current Profile	Assessed Current Profile	Target Profile
	Asset Management (ID.AM)	Tier 1	Tier 1.3	Tier 3
	Business Environment (ID.BE)	Tier 2	Tier 2.2	Tier 3
	Governance (ID.GV)	Tier 1	Tier 1.4	Tier 3
	Risk Assessment (ID.RA)	Tier 1	Tier 1.3	Tier 3
	Risk Management Strategy (ID.RM)	Tier 1	Tier 1.2	Tier 3
	Supply Chain Risk Management (ID.SC)	Tier 1	Tier 1.5	Tier 3
Protect	Identity Management, Authentication and Access Control (PR.AC)	Tier 3	Tier 2.4	Tier 3
	Awareness and Training (PR.AT)	Tier 2	Tier 1.9	Tier 3
	Data Security (PR.DS)	Tier 1	Tier 1.2	Tier 3
	Information Protection Processes and Procedures (PR.IP)	Tier 2	Tier 1.9	Tier 3
	Maintenance (PR.MA)	Tier 2	Tier 1.7	Tier 3
	Protective Technology (PR.PT)	Tier 2	Tier 1.9	Tier 3
Detect	Anomalies and Events (DE.AE)	Tier 1	Tier 1.7	Tier 3
	Security Continuous Monitoring (DE.CM)	Tier 2	Tier 1.9	Tier 3
	Detection Processes (DE.DP)	Tier 1	Tier 1.6	Tier 3
Respond	Response Planning (RS.RP)	Tier 1	Tier 2.0	Tier 3
	Communications (RS.CO)	Tier 1	Tier 1.2	Tier 3
	Response Analysis (RS.AN)	Tier 2	Tier 1.7	Tier 3
	Mitigation (RS.MI)	Tier 2	Tier 1.9	Tier 3
	Improvements (RS.IM)	Tier 1	Tier 1.8	Tier 3
Recover	Recovery Planning (RC.SP)	Tier 2	Tier 2.0	Tier 3
	Improvements (RC.IM)	Tier 2	Tier 2.0	Tier 3
	Communications (RC.CO)	Tier 1	Tier 2.1	Tier 3



## **Recovery Planning Consideration**

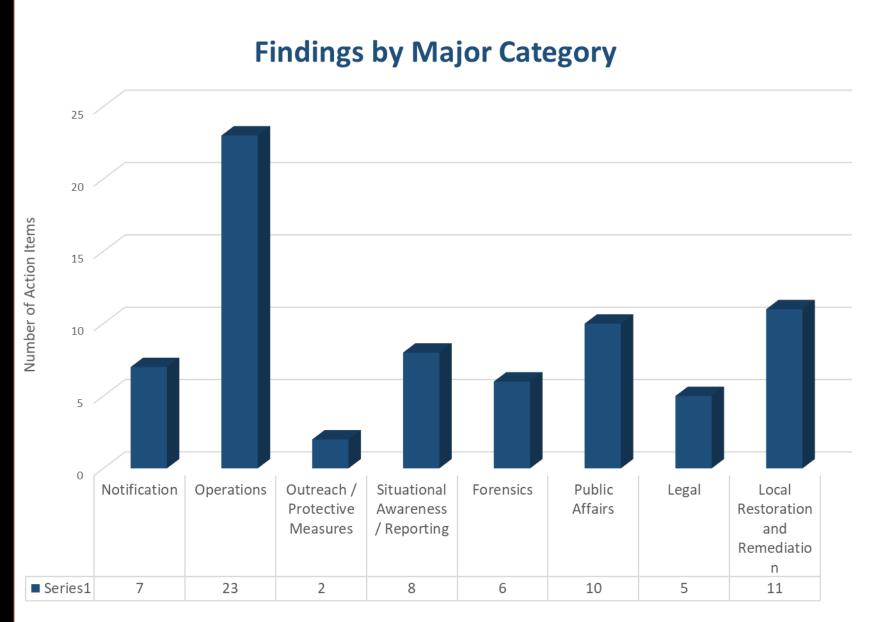
- SMART PORTS (Information Technology) 

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- Identify Work Functions that Require IT
- Identify Criticality of Each Function
- Identify Maximum Tolerable Downtime





#### **Ryuk Ransomware After Action Report**





- You need to have a plan
- Machines that were compromised had Local Admin privileges
- Do not re-image an impacted machine until forensics can be captured
  - Live Memory
  - Allows remediation course of action development
- Backups were not segregated from the network
- Test your ability to recover your data
  - Legacy Systems



- Establish short-term and long-term recovery goals
  - Prioritize systems
- Provide your employees with cyber awareness training
- Your Public Affairs personnel need to have a base knowledge on cybersecurity
- Develop a reporting format to keep senior management informed
- Need to remove the stigma of being a victim of a cyber attack



### What You Can Do

- Develop, Update and Test Your Recovery Plan
- Identify Critical IT Functions and Establish Priorities of Effort
- Know What Resources are Available to You
  - State
  - Federal
- Get Involved
  - InfraGard
- Make Cybersecurity Part of the Organizations Culture