BUILDING TRUST

ROLE OF CYBER SECURITY IN CIVIL PROTECTION

Mo Cashman
Director, Global Defense Solutions
McAfee

What builds Trust?

RESILIENCE

TRANSPARENCY

GOVERNANCE

WHY RESILIENCE ?

SERVICE ASSURANCE

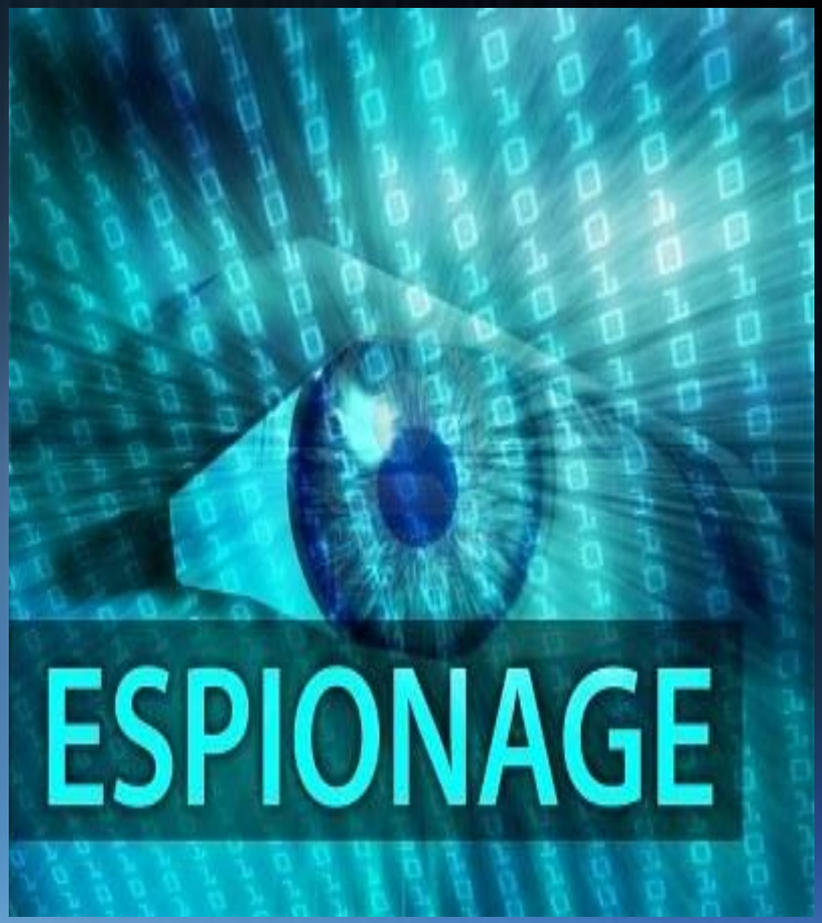
MISSION ASSURANCE

Structured Adversaries

HACKTAVIST

ORG CRIME

NATION-STATE



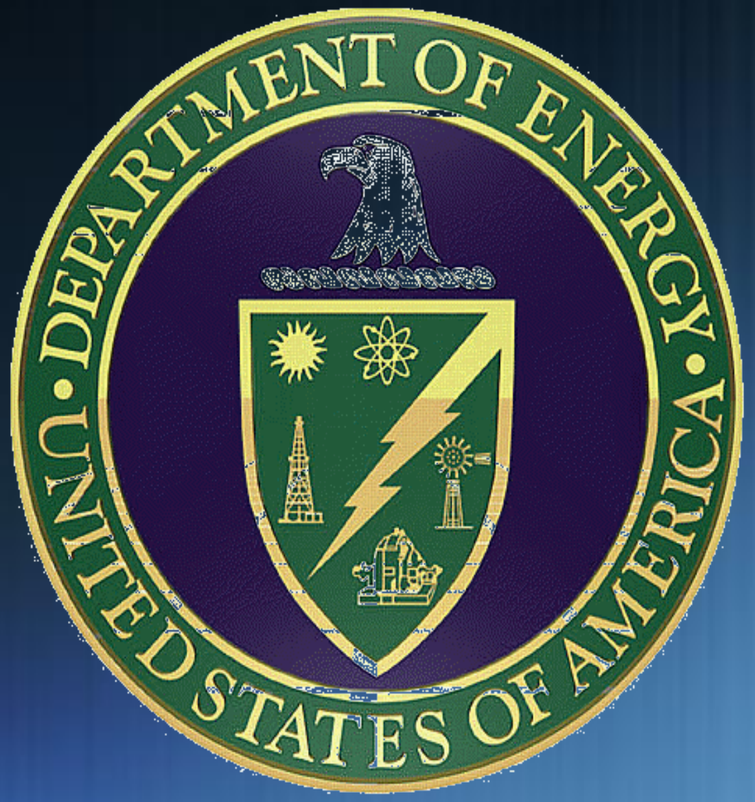
What is Resilience?

RESIST FAILURE

RAPID RESPONSE

SURVIVABILITY

Who’s Talking Resilience?



Stakeholders

Government

Industry

Service Providers

CERTs

Standards Orgs

Smart Grid Challenges

Scale

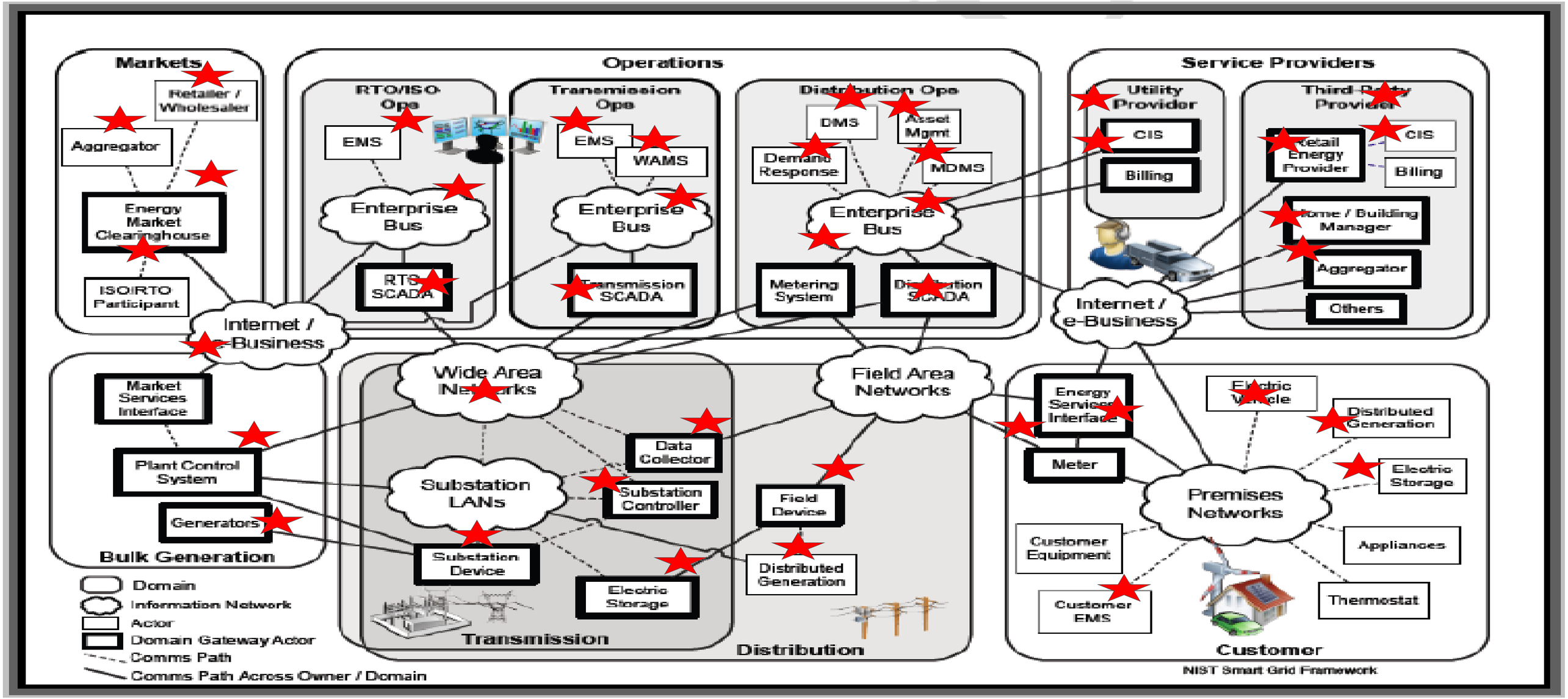
Life Cycle

Culture

Data Privacy

Standards

Current Grid Environment



Resilience (Cyber) Framework

Protected Environments

ENTERPRISE ENVIRONMENT

OPERATIONS ENVIRONMENT

SUPPLY CHAIN ENVIRONMENT

How important is Response?

6-9 months is average time an adversary maintains a presence on the network before they are detected

What’s important in a Crisis?

Response OODA Loop

OBSERVE	Detect that an incident occurred
ORIENT	Rapid Analysis and Comprehension
DECIDE	Validate with Intelligence & Context
ACT	Find, Contain, Fix and Prevent

Speed = Survivability

How fast can we ***FIND***, ***CONTAIN*** **and** ***FIX*** a security breach to contain damage?

How fast can we ***ACQUIRE and INTEGRATE*** new capability to maintain safety?

Intelligence is Critical

- Integrated intelligence and analytics allowed JSOC to increase hunt missions from a few a week to multiple per night

TERRORIST, INSURGENT

BOMB MAKER

SUPPLY CHAIN COMPONENTS

PAYLOAD

SELF PROTECTION

DISTRIBUTION NETWORKS

COMMAND AND CONTROL

IMPACT

CRIMINAL, SPY

MALWARE AUTHOR

SUPPLY CHAIN COMPONENTS

PAYLOAD

SELF PROTECTION

DISTRIBUTION NETWORK

COMMAND & CONTROL

IMPACT

Roles of Intelligence

1. Prevent Something Bad from Happening
   Proactive Defense
2. Find Something Bad Inside the Network
   Incident Response
3. Find The Bad Guy
   Root Cause Investigation

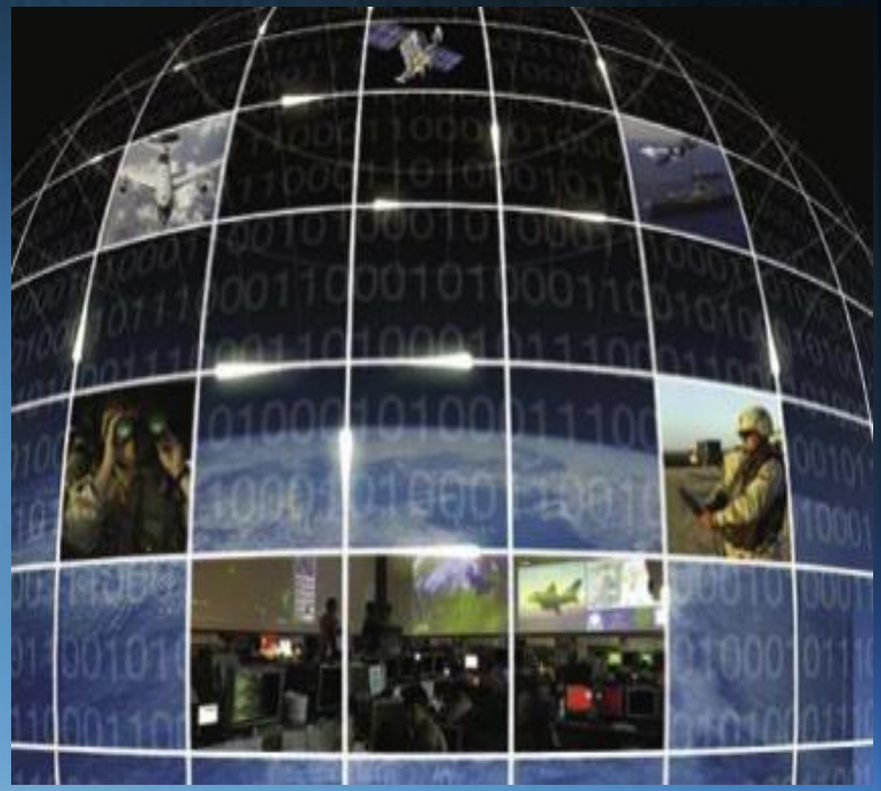
Agile Intelligence Sharing

Analog

"Speed of Paper"

Digital

"Speed of the Network"



Barriers to Intelligence Sharing

Politics

Standards

Governance

Classifications

Summary of Key Points

Stakeholders

Trust

Standards

Resilience

McAfee®

An Intel Company