

# AT&T Cybersecurity Overview for NARUC

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July 13, 2015



# AT&T approach to network security



- **24x7 global situational awareness**  
Near real-time analysis of security indicators
- **Operate largest IP/MPLS Core Infrastructure**  
Real time global situational awareness  
Integrated management and response capability
- **Embed security capabilities in network**  
Security enforcement nodes  
Enterprise protection and managed services
- **Secure core network infrastructure**  
Traffic Separation, hide core infrastructure,  
hardening, filtering/monitoring traffic flows



# Providing value-deep visibility, analytics, and response

## Extensive data collection



- Over 90 Petabytes of data traffic passes through the AT&T Network on an average business day

## Robust security analytics



- Hundreds of millions of events reduced to hundreds of actionable alerts daily

## Expert threat response & mitigation



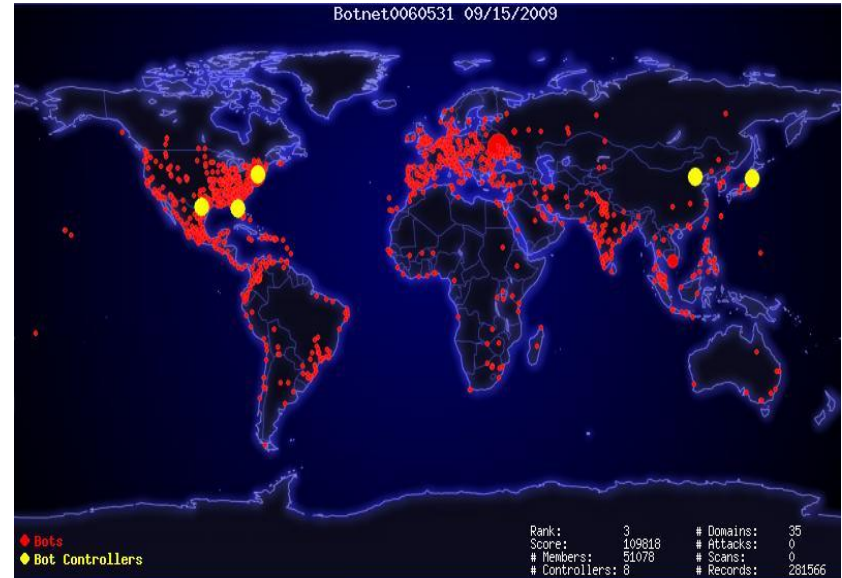
- 24x7 redundant Security Operations Centers
- Approximately 2000 security experts



## Identifying the anomalies



# AT&T global security nodes, botnet illustration



# Evolution of threat management

## Traditional approach

- Monitor traffic in and out of perimeter
- Compare against known signatures
- Generate alerts to SOC for investigation

## The traditional approach is changing

- What's the perimeter?
- Threats evolving at increasing rate
- Overwhelming amounts of data from many sources across complex environments

## Effective threat management must...

- Collect and aggregate data from multiple sources
- Turn data into information
- Respond real-time with changes to policies and filtering





## Perimeter security?



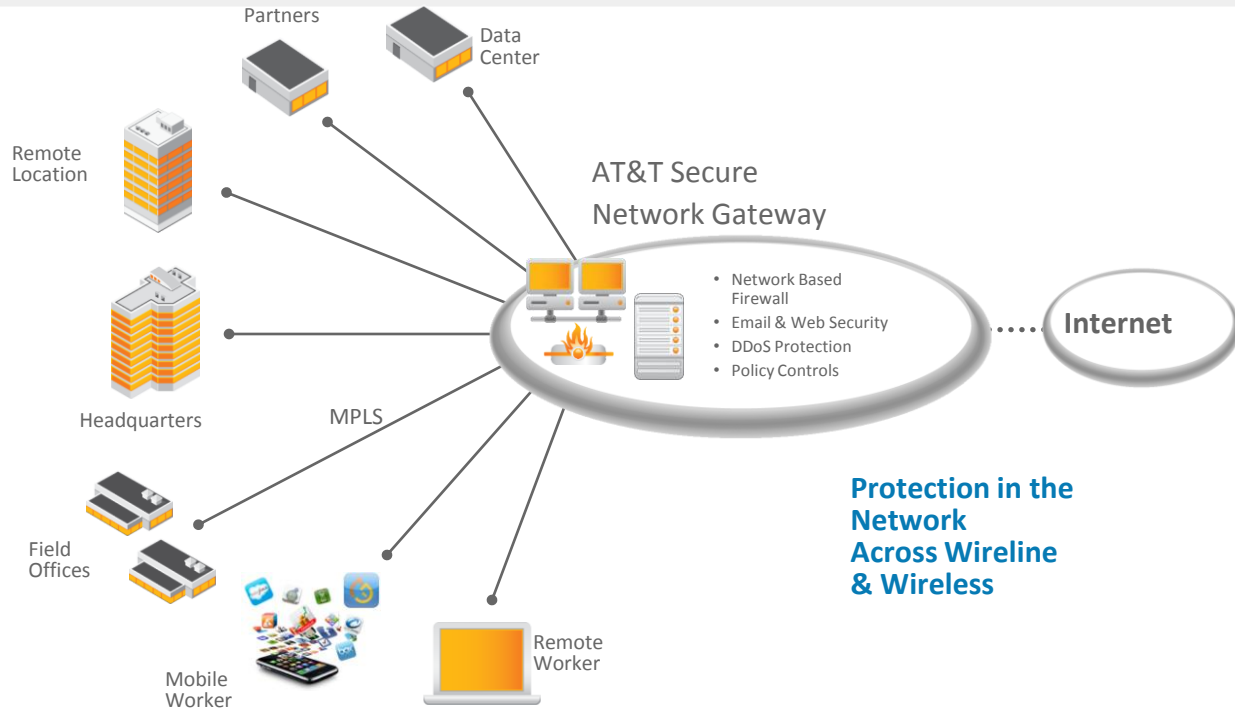
70% of threats go undetected  
by anti-virus software



29% work from multiple locations,  
using **multiple devices and apps**



# Evolution to Simple, Efficient Network Environment





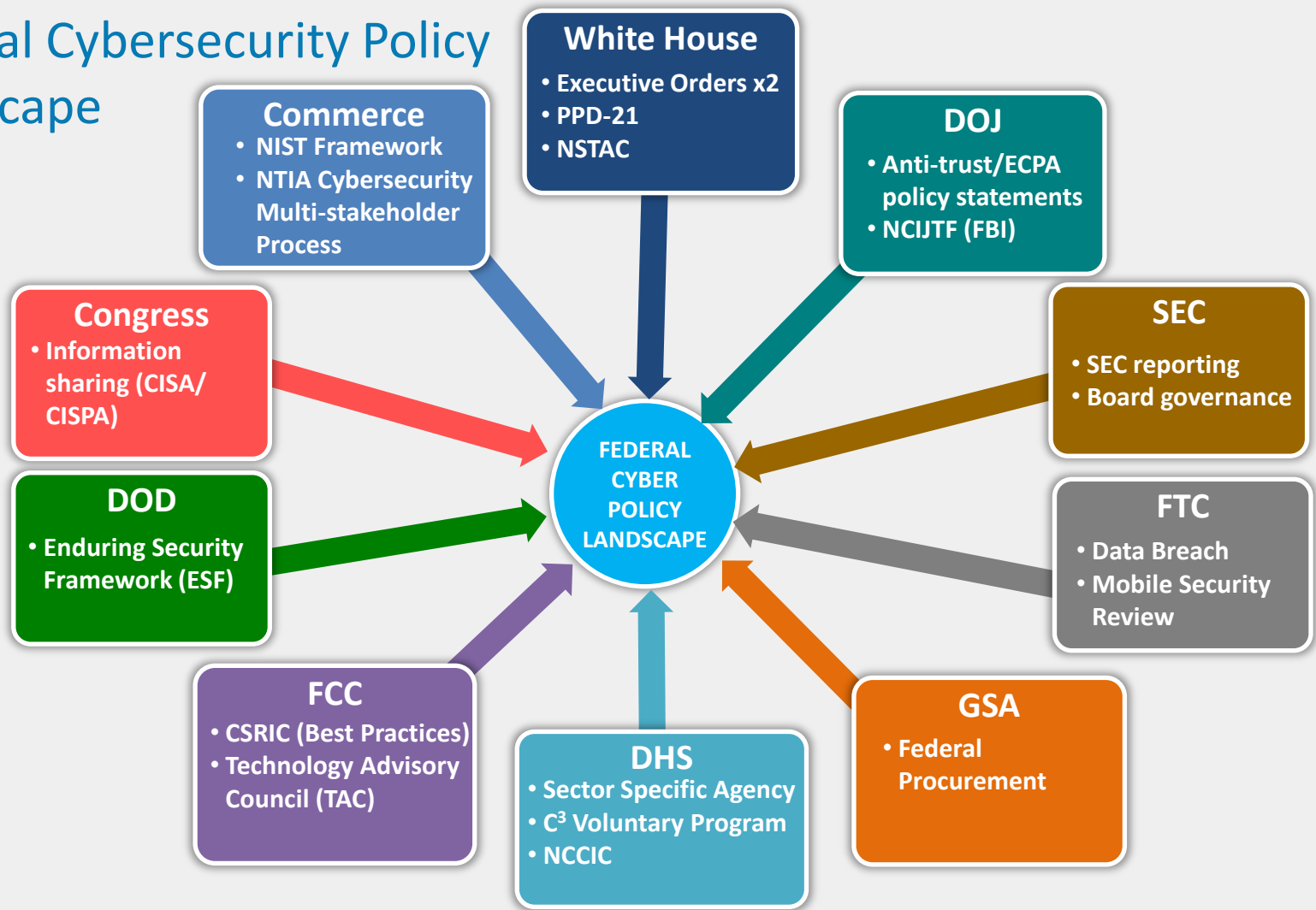
## Public private partnerships are the foundation for public policy addressing for cybersecurity

“Public-private partnerships have fostered information sharing and served as a foundation for U.S. critical infrastructure protection and cybersecurity policy for over a decade. During that time, the Federal government and the private sector have engaged in a number of forums on cybersecurity and information and communications infrastructure issues.”

- The White House Cyberspace Policy Review



# Federal Cybersecurity Policy Landscape



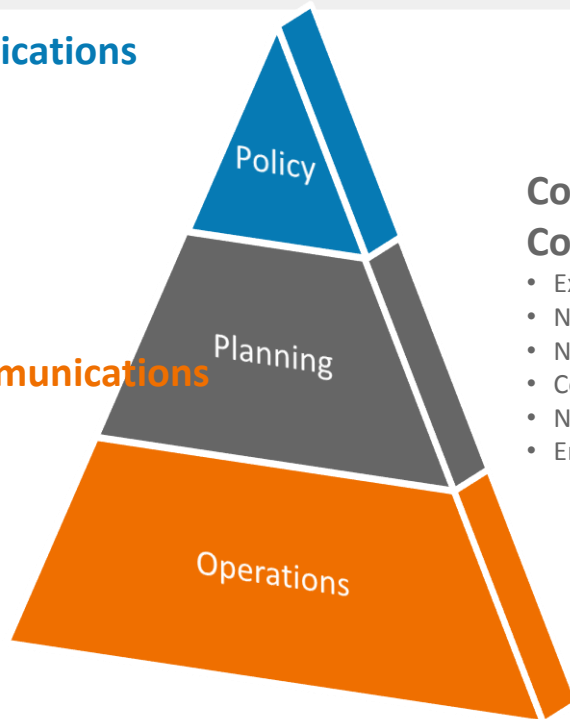
# Communications sector partnership w/ government

## National Security Telecommunications Advisory Committee (NSTAC)

- White House 60 Day Review
- Cloud Security s
- Promoted NCCIC, NSTIC etc.

## National Cybersecurity & Communications Integration Center (NCCIC)

- On call 24/7 center
- US CERT
- ICS CERT
- National Coordinating Center (NCC)



## Communications Sector Coordinating Council (CSCC)

- Executive Order Implementation
- NIST Framework
- National Sector Risk Assessment (NSRA)
- Communications Sector Specific Plan (CSSP)
- National Incident Response Plan
- Emerging Security Framework (ESF)



# Policy considerations for state governments

- **Partner with private sector/Federal agencies** to protect critical infrastructure by leveraging work that is being done in being done in various federal, regional, state and local venues (e.g., MS-ISAC; State, Local and Tribal Coordinating Council; National Level Exercise)
- **Raise awareness across state/local government and coordinate response** in event of a major cyber incident; e.g., eSecure Your eCity in San Diego, Michigan Cybersecurity Program etc.
- **Preserve private sector incentives** for investment, innovation; and flexibility to respond to threats. There is no one-sized fits all solution to cybersecurity.
- **Enhance awareness and education** - support the National Cybersecurity Awareness Campaign, STOP THINK CONNECT, build computer security and digital citizenship into classroom curriculum, increase importance of secure software design at University level.
- **Increase support for law enforcement** in pursuing cyber criminals
- **Lead by Example** – deploy cyber security solutions across state government systems





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