



C4IT SERVICE CENTER

TELECOMMUNICATION & INFORMATION
SYSTEMS COMMAND

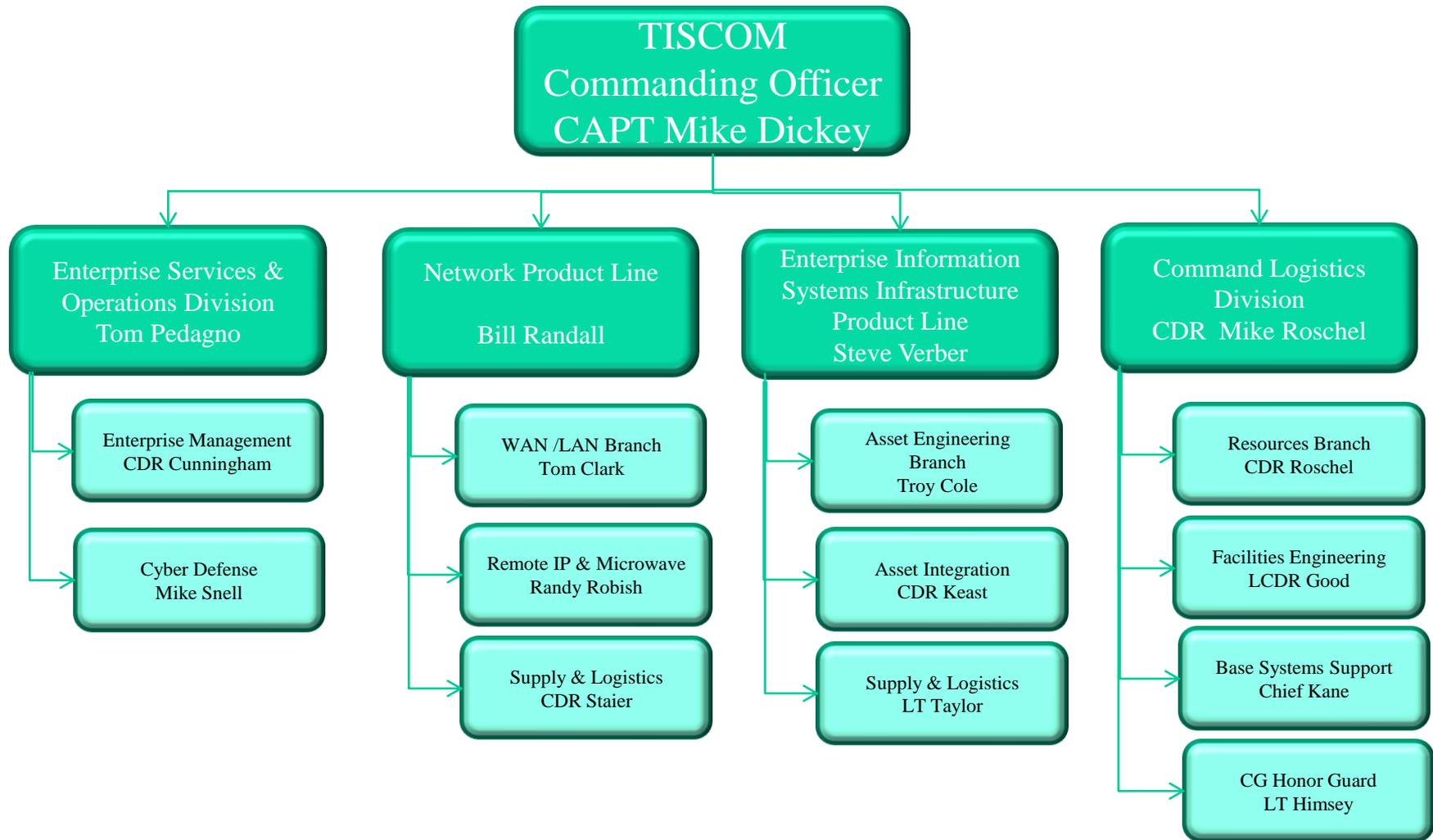
C4IT Service Center Industry Day

TISCOM | CAPT Mike Dickey

17 August 2011



TISCOM Organization



Enterprise Operations Core Technologies

ENTERPRISE MANAGEMENT

- NETWORK OPERATIONS CENTER (NOC)
- SECURITY OPERATIONS CENTER (SOC)
- COMPUTER INCIDENT RESPONSE TEAM (CIRT)/CYBERCOM WATCH
- INFRASTRUCTURE OPERATIONS MANAGEMENT
- IT INFRASTRUCTURE ARCHITECTURE
 - **MICROSOFT-based**
 - (SBU) 40,000 CLIENTS – 600 SERVERS,
 - (CLAS) 2,200 CLIENTS / 475 SERVERS
 - **CISCO-based**
 - 800 ROUTERS; IPV6 CAPABLE (not enabled)
 - GEOGRAPHICALLY DISTRIBUTED ARCHITECTURE/CENTRAL MANAGEMENT



CG IT Infrastructure Daily Report for xx/xx/xx

Service	Status (Red/Green)
Network Connectivity	
Cutter Connectivity	
IT Service Delivery	
IA Security	
Organizational Messaging	



Cyber Defense - CGCIRT

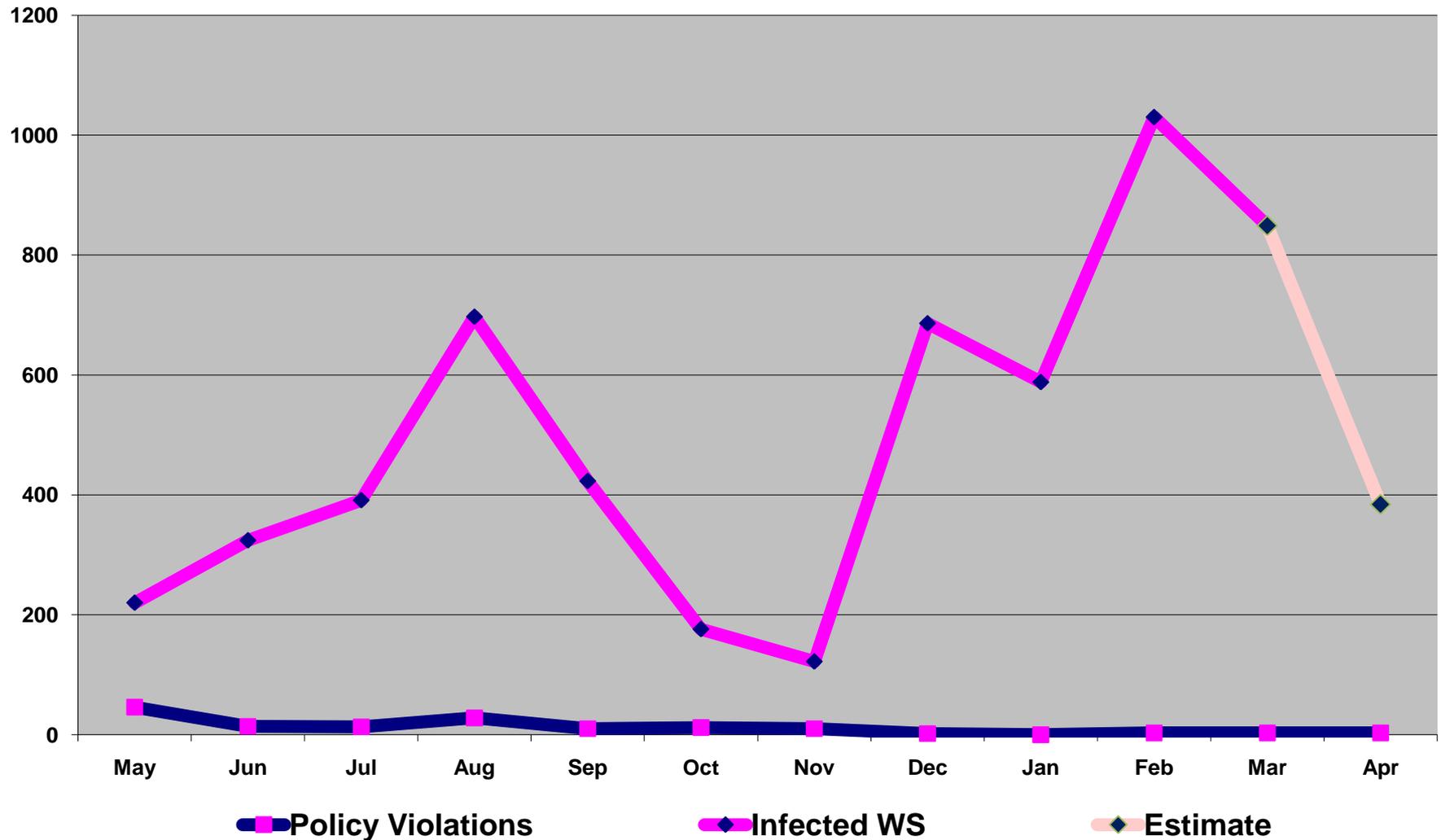
Coast Guard operations in the traditional domains are becoming increasingly dependent on its ability to effectively operate in the cyber domain to the point that the cyber domain can directly impact mission success.

Each month:

- 12 million inbound e-mails hit our CG network gateways with 25,000 infections or malicious payloads
- 5.5 million spam e-mail are rejected
- 175 CG information assurance incidents occur.



CGCIRT –Attack Vectors



TISCOM Efforts

CUTTER IP CONNECTIVITY SUPPORT (~ \$40 - 45 M)

- SATCOM AIR TIME – INMARSAT B, Ku, and Fleet Broadband
- STAFF AUGMENTATION

STAFF AUGMENTATION (~\$40 - 50 M)

- IT INFRASTRUCTURE AND WATCHSTANDERS
- ISSO SUPPORT, FIELD HELP DESK

IT INFRASTRUCTURE CONFIGURATION MANAGEMENT (~ \$18 – 22 M)

- SOFTWARE LICENSING
- CHANGE MANAGEMENT



TISCOM Efforts

INFORMATION ASSURANCE (~ \$7 – 10 M)

- STAFF AUGMENTATION (CIRT, C&A)
- FIREWALL & IDS/IPS MAINTENANCE
- IA TOOLS

ORGANIZATIONAL MESSAGING (~ 2 – 2.5 M)

- Enterprise record messaging for CLAS and UNCLAS
- Tactical Message delivery to Cutters

TELEPHONY LIFE CYCLE SUPPORT (~ \$1.5 – 2 M)

- PBX LARGE UNIT / PBX SMALL UNIT
- VOIP (Future)



Enterprise Networks Infrastructure

- **LARGE CUTTER COMMERCIAL SATCOM**
 - FLEET BROADBAND & KU - Contracts for equipment are in place
 - Future – dual band antenna systems, switching to allow for multiple paths simultaneously
- **SMALL CUTTER CONNECTIVITY** (Contract in place)
- **LAN SWITCHES** (Plan to have a contract in place by SEP 2011)
- **NETWORK ACCESS POINT ENGINEERING - DOD IAP TRANSITION** (effort is currently underway)
- **CENTRIX**
- **HIGH LATITUDE IP CONNECTIVITY**



Enterprise Networks Infrastructure

CGOne – Coast Guard’s enclave of DHS OneNet

- TRANSITIONED TO NETWORX
- MPLS BACKBONE
- 1,000 SHORESIDE DROPS + CUTTERS
- REMOTE CLIENT ACCESS
 - RDP
 - TERMINAL SERVER
 - CAC BASED AUTHENTICATION
 - IPSEC TUNNEL
- **CENTRALIZED CELLULAR TELEPHONE MANAGEMENT**



Enterprise Info Systems Infrastructure

INFORMATION SYSTEMS RECAPITALIZATION (contract in place for servers/workstations)

- REMOTE DESKTOP SERVICES (TERMINAL SERVICES)
- DESKTOP VIRTUALIZATION (ZERO FOOTPRINT THIN CLIENT)
- SERVER VIRTUALIZATION

TELEPHONY ENGINEERING (Contract in place)

- UNIFIED COMMUNICATIONS
- PBX REPLACEMENT
- VIDEO TELECONFERENCING – DESKTOP, SMALL/LARGE CONFERENCE



Enterprise Info Systems Infrastructure

- ENTERPRISE REMOTE DESKTOP SERVICES
- ENTERPRISE STORAGE AND ARCHIVING
- ENTERPRISE DATA PROTECTION
- NETWORK ACCESS PROTECTION
- OPERATIONALIZE /HARDEN WIRELESS MESSAGING

ORGANIZATIONAL MESSAGING

- TACTICAL MESSAGING
- COMMAND EMAIL

