

DEPARTMENT OF DEFENSE CYBER CRIME CENTER



DC3 – Enabling Cyber Action

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Agenda

- DC3 Overview and Lines of Effort
- Enabling Cyber Action
 - Defense Industrial Base – Vulnerability Disclosure Program (DIB-VDP)
 - Cyber Threat Information Sharing (DCISE)
 - Malicious Activity Detection and Response (ENSITE and DCISE³)
 - Combatting Ransomware



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EMPOWERING INSIGHT, INNOVATION, AND ACTION FOR A SECURE CYBERSPACE

DC3 Mission

A Federal Cyber Center that delivers innovative capabilities and expertise to enable and inform law enforcement, Cybersecurity, and national security partners.

What We Do

DC3 offers a range of integrated services, including cyber training, digital and multimedia forensics, vulnerability disclosure, cybersecurity support to the Defense Industrial Base, analysis and operational enablement, and advanced technical solutions and capabilities.



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DoD Cyber Crime Center (DC3)

- One of seven Federal Cyber Centers designated by National Security Presidential Directive (NSPD) 54 – others are DNI CTIIC and IC-SCC, DOJ NCIJTF, DHS CISA, DoD USCYBERCOM and NSA
- DoD Center of Excellence for digital and multimedia (D/MM) forensics, cyber training, technical solutions, research and development, cyber analytics, and vulnerability sharing, in support of:
 - Law Enforcement and Counterintelligence (LE/CI)
 - Cybersecurity (CS) and Critical Infrastructure Protection (CIP)
 - Document and Media Exploitation (DOMEX) and Counterterrorism (CT)
- Integration of DC3 functions (lab, vulnerability disclosure, DIB Cybersecurity, analytics) often yields insight that:
 - Illuminates advanced persistent/criminal threats via serialized/finished report
 - Informs rapid updates to DC3 Cyber Training Academy offerings
 - Facilitates innovative tool development
- SECAF is DoD Executive Agent for DC3 and DoD D/MM Forensics



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DC3 Lines of Effort

Cyber Forensics Lab (CFL)

- Nationally accredited lab with sophisticated digital forensics
- Supports array of partners and classification levels
- Investment in tools and equipment to tackle toughest challenges

Cyber Training Academy (CTA)

- In residence, online, and mobile training teams
- Intermediate and advanced cyber courses
- LE/CI, Cyber Mission Force, and International Partners

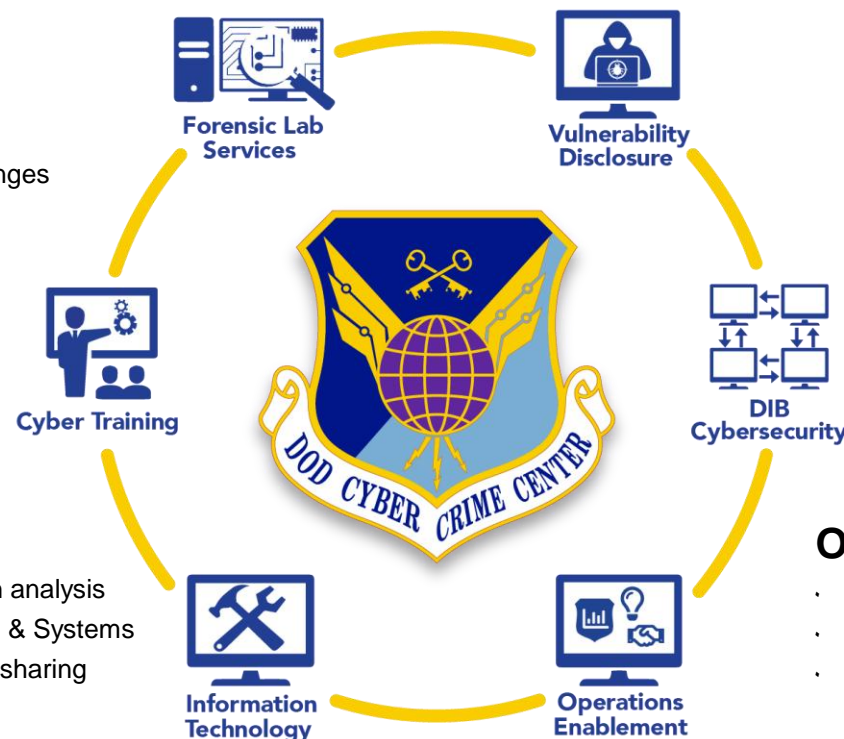
Information Technology (XT)

- RDT&E of solutions for digital forensics exams and intrusion analysis
- Plan, Build, Operate, Secure, Defend, and Extend Networks & Systems
- Mission experts in data standards, tagging, and information sharing



Enterprise Management and Resources (ER)

- Efficient and effective oversight of DC3 programs and projects
- Management of budgetary resources linked to requirements management, support contracts, performance reporting, logistics operations, and SAF engagement



Vulnerability Disclosure Program (VDP)

- Crowdsourced reporting of vulnerabilities on DoD systems
- 6,400+ white-hat researchers from 45 countries
- Enduring partnership with USCYBERCOM/JFHQ-DoDIN

Industrial Base Collaboration (DCISE)

- Cybersecurity partnership with 1,300+ defense contractors
- Voluntary and mandatory DIB incident repository
- Expanded cybersecurity offerings and partnerships

Operations Enablement (OED)

- Sharply focused technical/cyber intelligence analysis
- Enable USG/DoD actions against cyber threats
- DoD solutions integrator in support of LE/CI/Cyber

Strategy and Partner Engagement (XE)

- Deliberate partnerships to enable action – share insights – efficiently reduce risk
- Policy, Planning, Strategic Communications and Engagements, and Organizational Development



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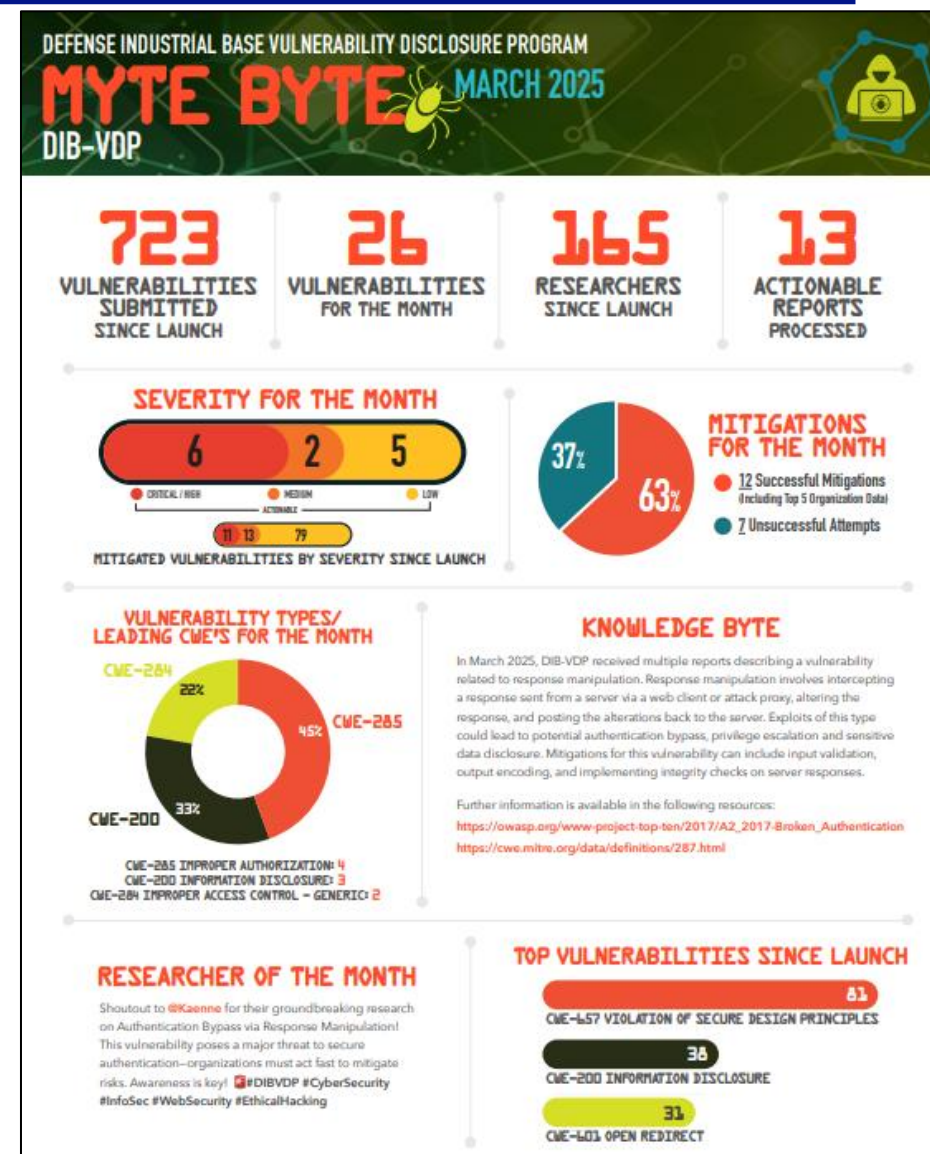
Defense Industrial Base – Vulnerability Disclosure Program

- Collaboration with DCSA
- Pilot in 2021-2022
- Enduring capability launched in 2024
- 723 vulnerabilities reported
- 103 vulnerabilities mitigated
- Cost of average data breach in 2024 = \$4.88M*
- ~\$503M saved in incident response



*-<https://www.ibm.com/reports/data-breach>

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Cyber Threat Information Sharing

- **DoD-DIB Collaborative Information Sharing Environment (DCISE)**
- Reporting, information sharing, and engagements with 1,300+ DIB companies
- DCISE³ (“dice cubed”) blocks 46,000 threats per month
- FY 24 Stats:
 - 1,600 cyber threat products
 - 44,000 indictors of compromise
 - 46 Alerts
 - 133 TIPPERs
- All-time stats (through 2024):
 - 15,000 cyber threat reports
 - 746,000 IOCs
 - 79,000+ hours of non-cost forensic and malware analysis for DIB Partners



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Malicious Activity Detection and Response

- **Enhanced Network Sensor & Intelligent Threat Enumeration (ENSITE)**
 - On-net sensoring
 - Real-time threat intelligence
 - AI/ML-powered detection
 - Alert Scoring Triage
 - Centralized Dashboard

- **DCISE³ (“dice cubed”)**
 - Analyzing logs from 350+ DIB firewalls
 - Automated threat scoring from open source and USG information
 - Auto-block of high-scoring threats
 - Enables pro-active threat hunting



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Combating Ransomware



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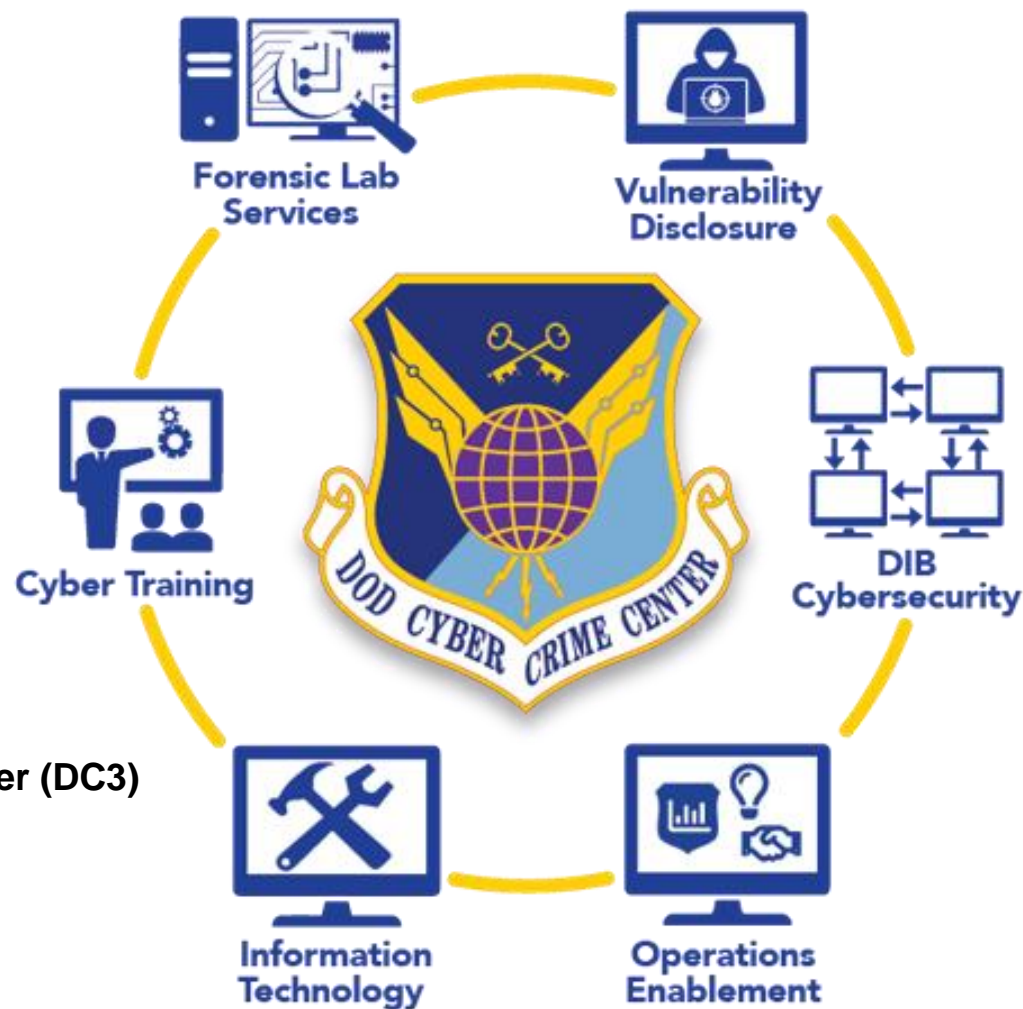
Key Takeaways

- DC3 is Federal Cyber Center and DoD Center of Excellence in digital and multimedia (D/MM) forensics, cyber training, technical solutions, research and development, cyber analytics, and vulnerability sharing
- DIB-VDP detects and mitigates publicly exposed vulnerabilities
- ENSITE and DCISE³ enable real-time detection and blocking of malicious activity
- DC3 enables cyber action in collaboration with a broad range of cybersecurity and law enforcement partners



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Thank You



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