



# Cyber Security Range

*Enabling Dominance in Cyberspace*

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# What is the DoD Cyber Security Range?

## Test, Train, Exercise, Evaluate

The mission of the Cyber Security Range (CSR) is to provide a representative network environment to the current cyberspace domain to allow realistic Testing, Training and Evaluation of cyber warriors and their cyber related tools.

### Realistic IT Network Models

- Various ranges of fidelity
- Rapidly Provisioned
- Remotely or Locally Accessible

**End State:** DoD's Information Network's security posture is strengthened and the ability to Protect and Defend DoD networks is increased.



# DoD CSR Niche Capabilities



Virtual Joint Regional  
Service Stack



Virtual Internet  
Access Point



## vJRSS

- JRSS is a suite of equipment that performs firewall functions, intrusion detection and prevention, enterprise management, virtual routing and forwarding (VRF), and provides a host of network security capabilities
- vJRSS is a mirror of the JRSS pre-production stack, built entirely from virtual technology
- Identical capabilities for active routing, passive analysis, and JMN management
- All B/P/C/S traffic traverses vJRSS (e.g. Inter-VLAN, Inter-Base, Inter-Agency, Internet)
- Currently used for CPT exercises and CND scenario training
- Future state includes NetOPs scenario training

**Note:** Current licensing can support a full stack of capabilities; 1 classification level at a time and 1 event at a time.



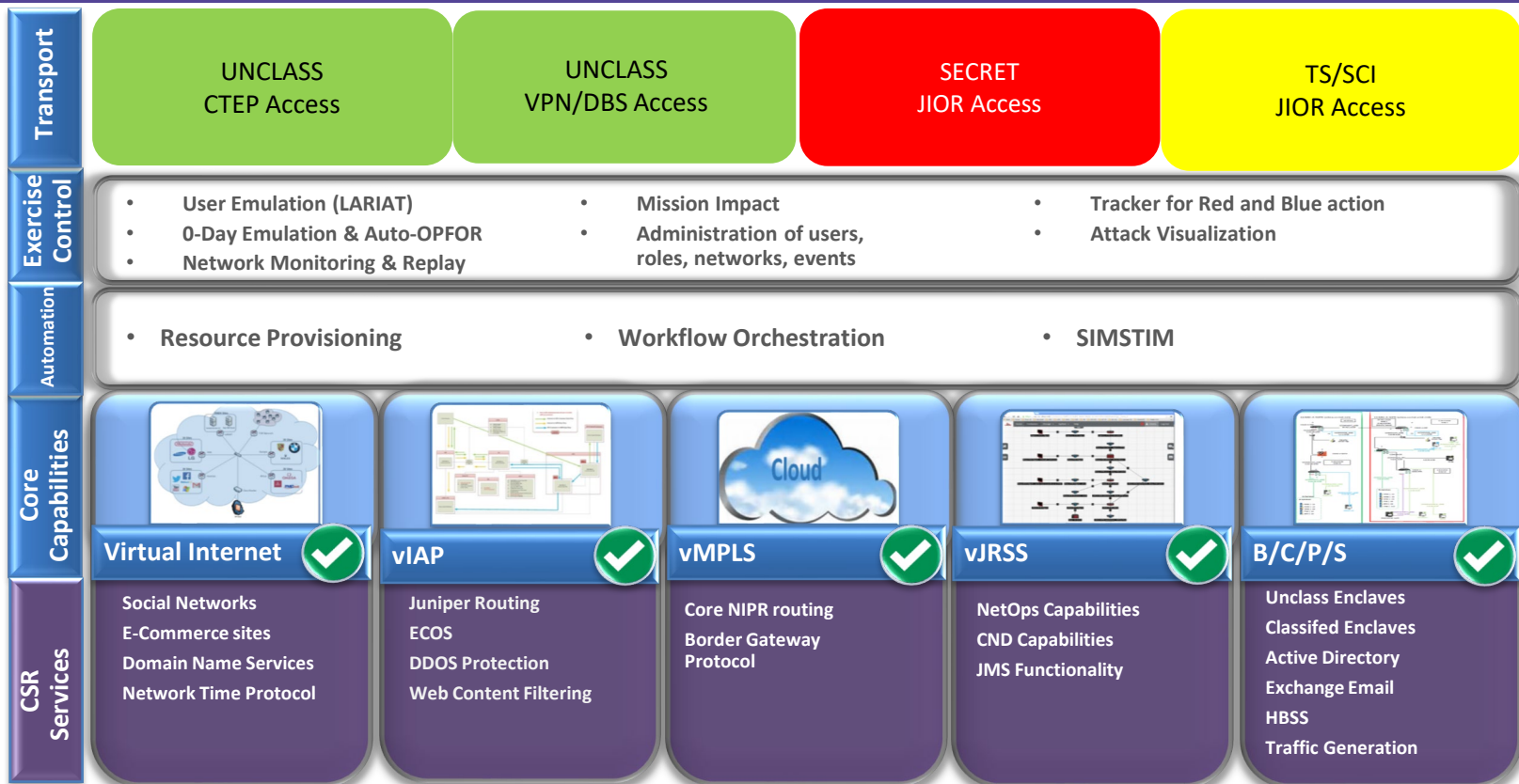
## vIAP

- Tier 1 Service that provides the first line of defense between the Internet and the DoDIN
- Suite of capabilities that provide:
  - Web Content Filtering (WCF): Palo Alto, Splunk, ArcSight
  - Enterprise Collaborative Operational Sensors (ECOS): (SourceFire, SiLK, WireShark, Bivio)
  - Distributed Denial of Service Threat Reduction (DDoS-TR): Arbor
- Realistic routing between Virtual Internet and Tiers 2 & 3
- Piloting in DISA Defender 18

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# Core Capabilities





# The Future of the CSR

- **Additional DoDIN Enterprise Capabilities**
  - Enterprise Email (EEMSG)
  - PKI & Certificate Management
  - SSL Break and Inspect
  - Big Data Analytics and Machine Learning
- **Additional CSR Capabilities**
  - Improved environment accessibility for remote configuration management
  - PCTE Support and Integration



## Points of Contact

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