

DoD IA Range Overview

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June 2013





Mission

An Environment to:

- ***Exercise*** cyber warriors
- ***Test & Evaluate*** new capabilities
- ***Train*** network defenders



Operationally
realistic

GIG-like look & feel

Non-production

Isolated

Can connect to
other environments
of similar purpose



Foundation

▶ Drivers

- **Comprehensive National Cybersecurity Initiative (Init 7)**
- **National Security Presidential Directive-54**
- **Homeland Security Presidential Directive-23**

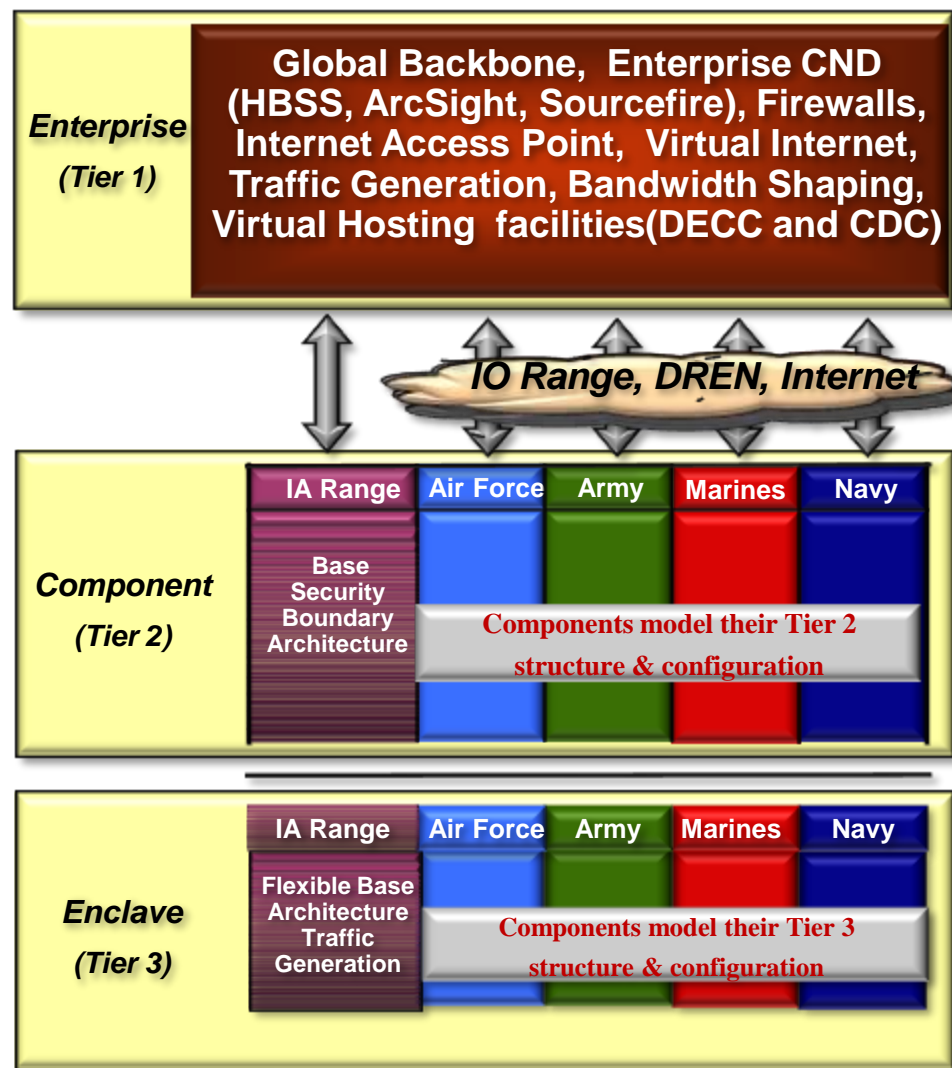
▶ Roles

- **DISA** : integrator and oversight; provides the representative architectures, tools and technologies to enliven the Range capability set to replicate GIG Tier 1 services.
- **HQMC C4**: Executive Agent and Service Sponsor provides Program Management, C&A, program outreach and contract support
- **DoD CIO**: CNCI project governance, oversight and reporting structure.



Joint Approach

- **Tier 1 – Enterprise**
 - Global Backbone
 - Enterprise CND Tools
 - Enterprise Services
 - Virtual Internet
- **Tier 2 – Component**
 - Service Specific Boundary Defense
 - Connect Locally or Remotely (Tunneled)
 - Managed at Service/Component Level
- **Tier 3 – Enclave**
 - Base Network Architecture
 - Populated with thousands of individual hosts





Interactive Base 1

Interactive Base 2

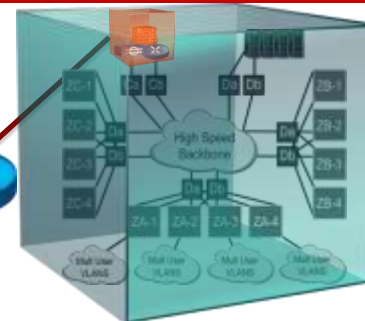
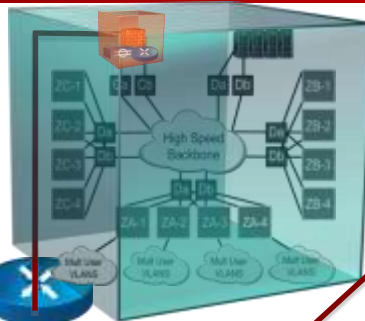
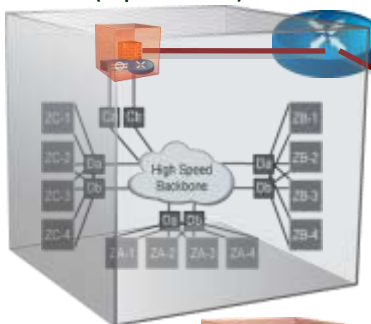
Other Ranges, Labs & Users



REMOTE ACCESS



ESC (Representative)



AFRICA
EUROPE
GIG Backbone
MPLS Cloud

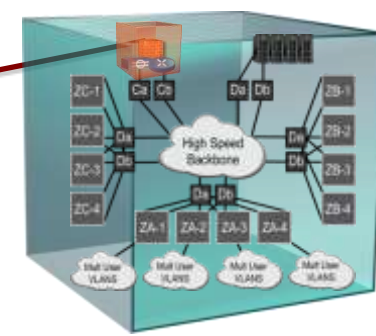
N. AMERICA

EUROPE

S. AMERICA

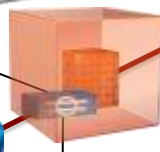
ASIA

AUSTRALIA



Interactive Base 3

Untrusted DMZ



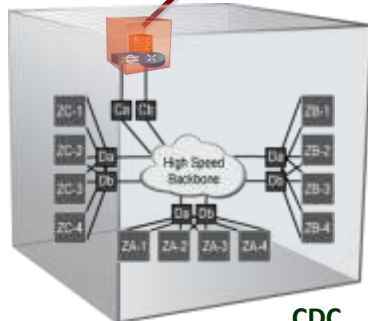
ISR

Trusted DMZ

IAP



Virtual Internet



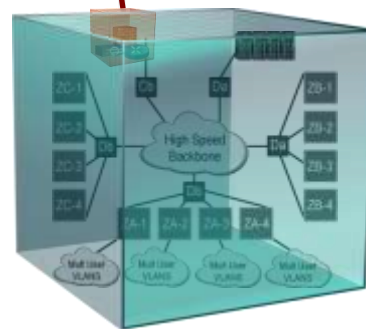
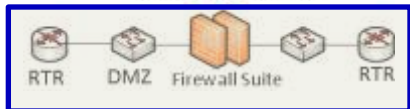
CDC

(Representative)

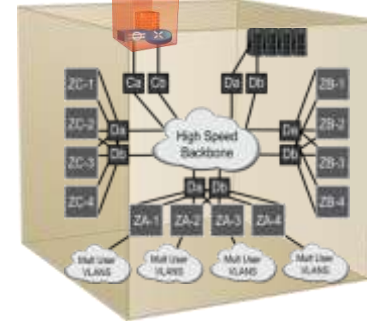
BOUNDARY SUITE



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Interactive Base 5



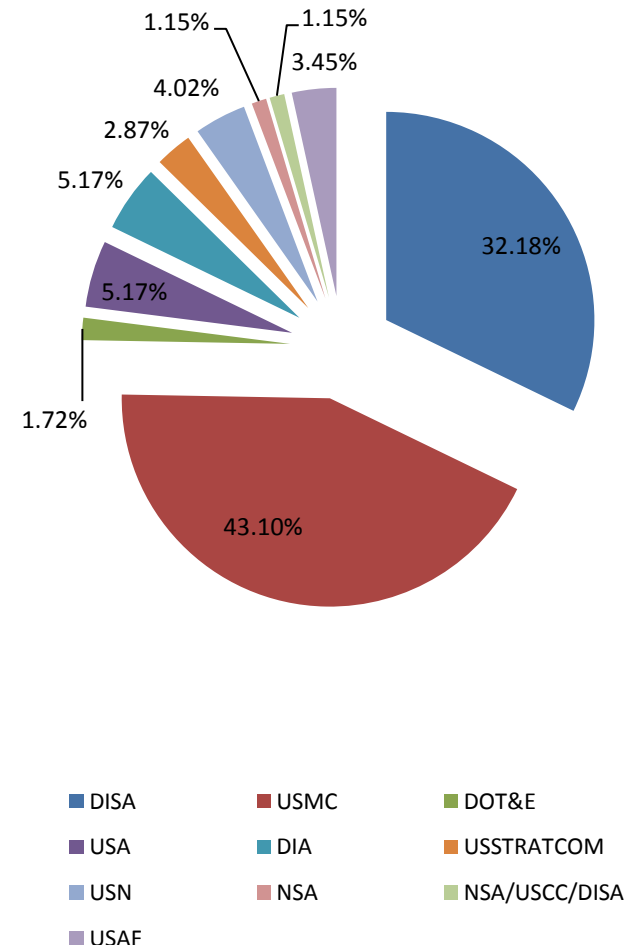
Interactive Base 4

Base 4



Range Utilization by Customer

- DISA PEO-MA – Mini-Cyber Flag Exercises – Program Pilots, TTP Development
- DISA FSO – HBSS CNDSP 501 Training
- USAF – Tactical Communications Training Exercises
- USSTRATCOM – JCC LOE #3 Kinetic/Cyber Cop Integration
- USCYBERCOM – Mini- Cyber Flag Exercises
- NSA – Non-Persistent Desktop Browser Testing
- USA – Entry to Journeyman Level Cyber Warrior Training
- USMC – Command and Staff College Cyber Elective
- USN – SAGA Afloat Network Refresher Training for Shore Commands Testing
- DIA - Counter Intel Investigations Training
- OSD – Capstone Training support to Service Schools
- Vendor Product Evaluations





Points of Contact

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DoD IA Range Website: https://c4.hqi.usmc.mil/IA_Range.asp

CAC Required