



Defense Information Systems Agency

A Combat Support Agency

Cross-Domain Enterprise Service (CDES)

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DISA/IA32
September 2009**

Benefiting the GIG

Cross Domain Enterprise Service (CDES)

- Established in FY07 by DISA to meet growing DoD demand for Cross Domain Solutions (CDSs)
- Consolidates number of CDSs in the field, reducing overall risk to the GIG
 - Fewer physical connections = fewer vulnerabilities
 - Standardized security monitoring & oversight by DECCs
 - Exact accountability and tracking by single agency
- Increases CDS utilization, reducing overall DoD cost of procurement, operations, and maintenance





Benefit to Supported Organizations

- **Alleviates responsibilities and liabilities in operating devices that connect security domains**
- **Faster fieldings of requirements**
- **Reduced costs across requirement life cycle**
- **Reduced workload: Absorb & consolidate the meticulous functions related to guards (administration, security, maintenance, training & accreditation)**
- **Provide high availability / reliability**
- **Ability to accommodate all the guarding technologies and capabilities authorized for DoD use**



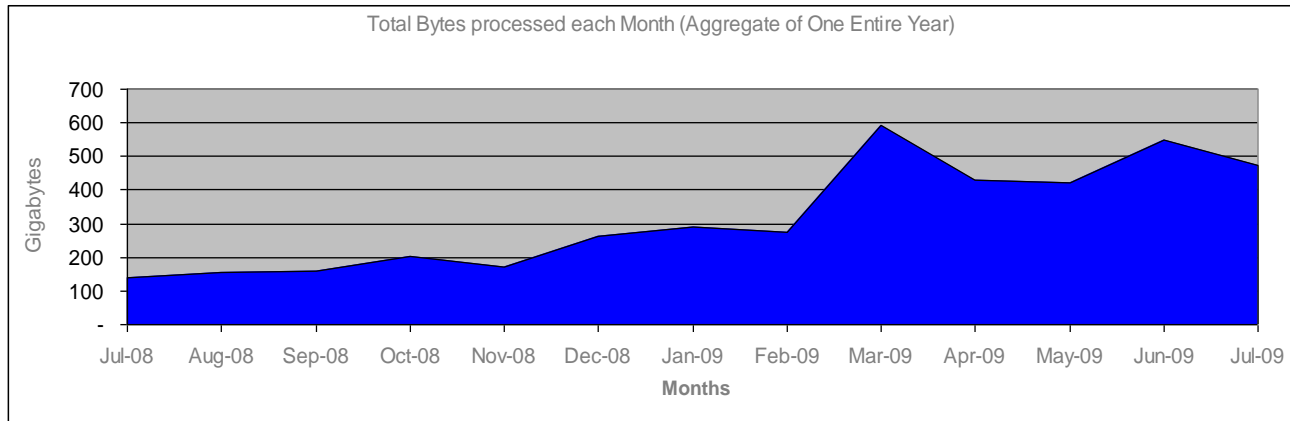
CDES Capabilities

- **Current**
 - **File Types: Fixed Format ASCII & XML**
 - **Delivery Protocol: Secure Shell (SSH)**
 - **Direction of Flow: Bi-directional, automated transfer**
- **Future (FY10)**
 - **Files Types: email, images, Office Files**
 - **Delivery Protocols: SMTP**
 - **Direction of Flow: Bi-Directional, automated transfer and limited Reliable Human Review**
- **What does your organization need?**

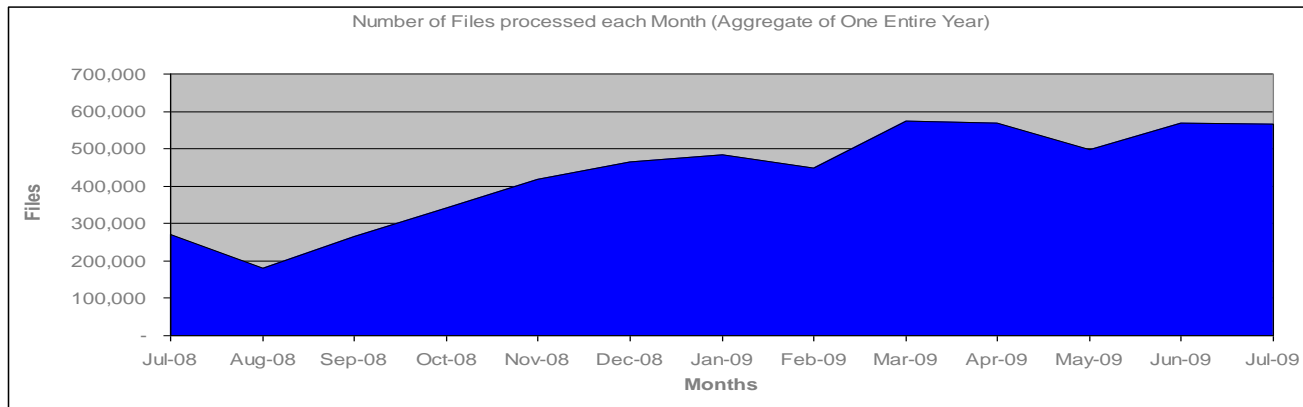
CDES

A Growing Capability

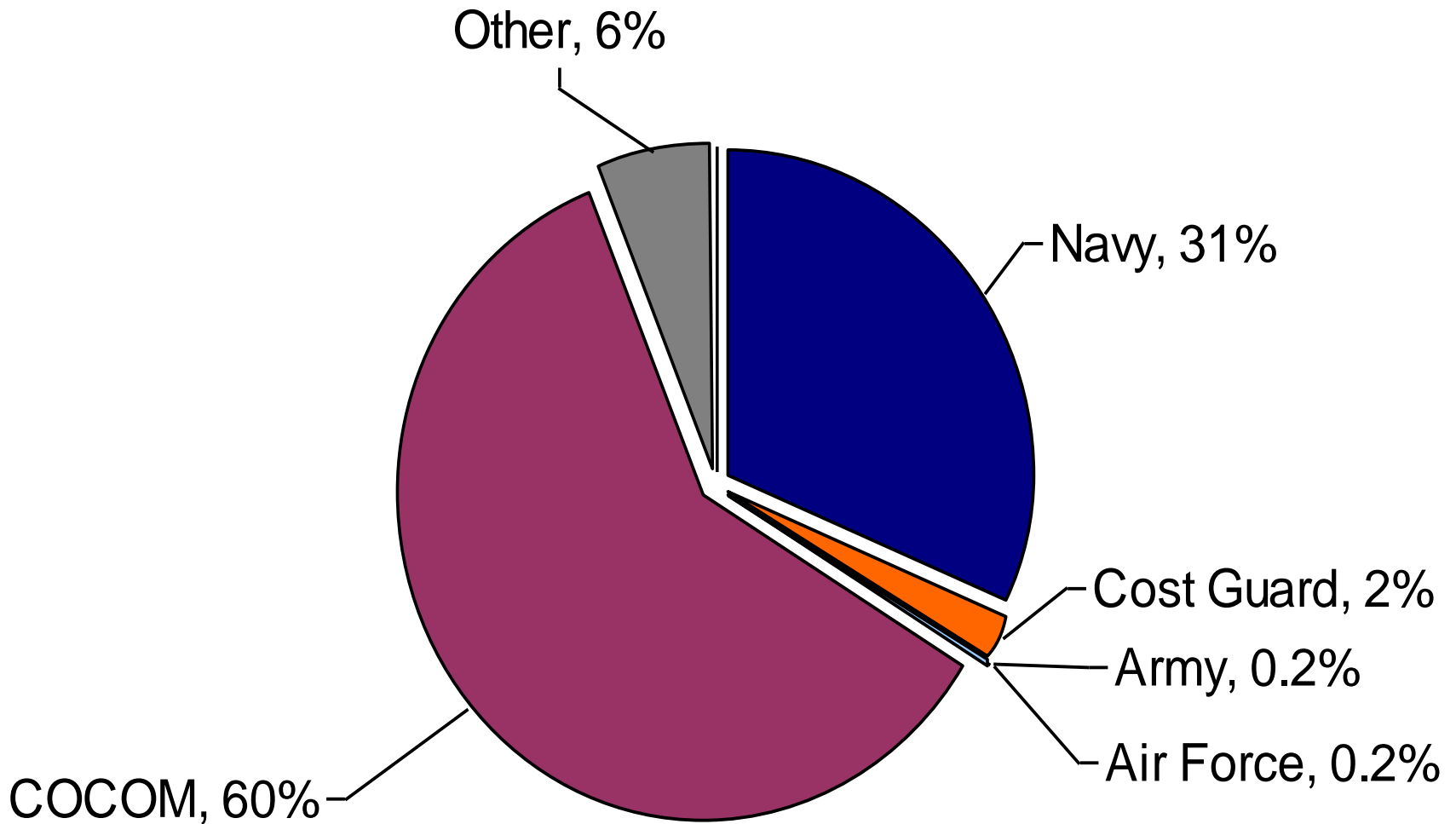
- **Total Data Processed over 1 yr = ~4.1 Terabytes**



- **Total Files Processed over 1 yr = ~6.1 Million**



CDES Supported Organizations (By Monthly Usage)



18 Major Organizations / Programs spanning 46 requirements



Expansion Plans

- **Biggest planned CDES growth year = FY10**
- **FY09: CDES included 60 servers encompassing 12 guarding systems across 3 sites**
- **FY10: CDES able to double its size & capabilities**
 - Positioned / pre-arranged to field 60+ new servers
 - As needed, can expand to 1-3 additional sites
- **Team CDES (Between Aug – Nov 2009)**
 - Increased engineers (sustain & field new capability)
 - Double liaison officers (dedicated to supported orgs)
 - Triple project managers (aggressively plan & schedule)
 - Establish dedicated financial team (maximize available \$)
- **Does your organization want to take advantage?**

Fielding Times

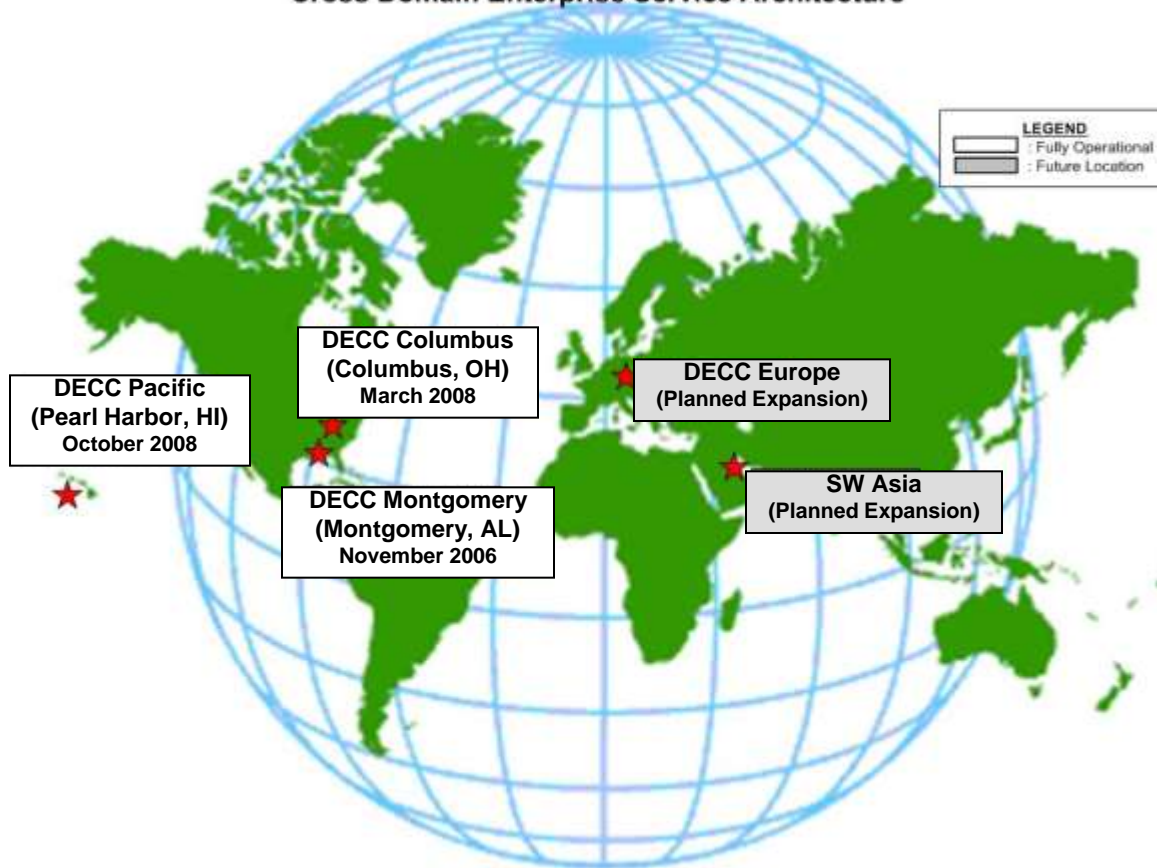
- **6 mos = Capability can be met with a technology already integrated into the CDES**
- **9 mos = Capability can be met with a new technology not yet integrated, but is available for DoD use**
- **Do-it-Yourself (P2P) Comparison = 1 - 2 years**
- **No prioritization required – no “Top 5” lists**
 - **Currently able to simultaneously proceed with all validated requirements**
- **Start date requires:**
 - **Requirement validated by CDSO or Joint Staff or DSAWG**
 - **Customer committed to keep pace w/ an aggressive schedule**

CDES Costs

- **Fielding: \$50K and up**
 - Most pay ~\$75-\$85K
 - Based on requirement complexity
- **Sustainment: \$50K and up**
 - Most pay ~\$65-\$80K/yr
 - Based on usage / volume
 - Includes life-cycle replacements (if req. remains same)
- **Committed to 20-80% less than a P2P fielding**
- **Extra \$: Priority restoration & added redundancy**
- **No Cost (\$0) for a CDES review & cost estimate** *(no reason not to ask)*

CDES Global Deployment

Defense Information Systems Agency (DISA)
Cross Domain Enterprise Service Architecture



CDES Way-Ahead

- New technologies will be introduced to the CDES based on capabilities and customer requirements
- Future locations at DECC Europe and in SW Asia
- Future transition to a Cross-Domain Service-Oriented Architecture (SOA)



CDES Performance Options

- **Wide array of requirements and required performance standards available**
- **Bottom Line: What do you need?**
 - **If we can't meet your needs... we don't "take the job"**
 - **Details clearly captured in each new MOA / SLA**
- **What we promise... we deliver!**

CDES

Performance Options

- **Reliability:**
 - What's needed? Call it out!
 - Additional failover & redundancy? We can build it!
- **Data Transit Time... One domain to another:**
 - If Max allowed measured in minutes? State it!
- **Responsive Support**
 - **3 Tier Maintenance:** 24X7 helpdesk, 24X7 system admins, on-call SME engineers and guard developers
 - **Active Monitoring:** Often catches issues before customer
 - **Proactive liaisons** assigned to each customer



Getting Started

- **Step 0 (Optional):** Contact DISA CDES—get initial background information
- **Step 1:** Contact your supporting Cross Domain Solutions Office (CDSO)
- **Step 2:** Supporting CDSO will review requirement, begin the community validation process, and direct towards the best solution / way ahead (including CDES as appropriate)
- **Step 3 to Completion:** CDSO & DISA CDES will walk you through the remainder of this complex process



Service CDSOs

(Cross Domain Solution Offices)

US Army

- Lead POCs: Mike Tyson / Bill B.
- DSN 332-3400 / Comm 703-602-3400
- NIPR: NETCOM-IA-CDSO@hqda.army.mil
- Web Site (requires AKO login)
<https://informationassurance.us.army.mil/crossdomain/>
- Other Supported Orgs: SOUTHCOM, USFK, USFJ

USMC

- Lead POCs: Tom Hart
- DSN 223-3490 / Comm 703-693-3490
- NIPR: thomas.l.hart@usmc.mil

US Navy

- Chief: Mr. Dave Wallick
- DSN 588-6302/3874
- Comm 843-218-6302/3874
- NIPR: cdso@east.infosec.navy.mil
- SIPR: wallickd@infosec.navy.smil.mil
gibbss@infosec.navy.smil.mil
- Website: <https://infosec.navy.mil/cds>
- Other Supported Orgs:
USPACOM

USAF

- Chief: Mr. “Chuck” McWhorter
- DSN 779-6498 / Comm 618-229-6498
- NIPR: afcaea3.cdso@us.af.mil
- SIPR: afca.ea3cdso@scott.af.smil.mil
- Other Supported Orgs:
USSTRATCOM, USTRANSCOM,
USCENTCOM, USNORTHCOM, NORAD,
USSOCOM



Summary

Remove Headaches of owning your own CDS

Provide Cheaper

Field Faster

Deliver... On Time... On Target!

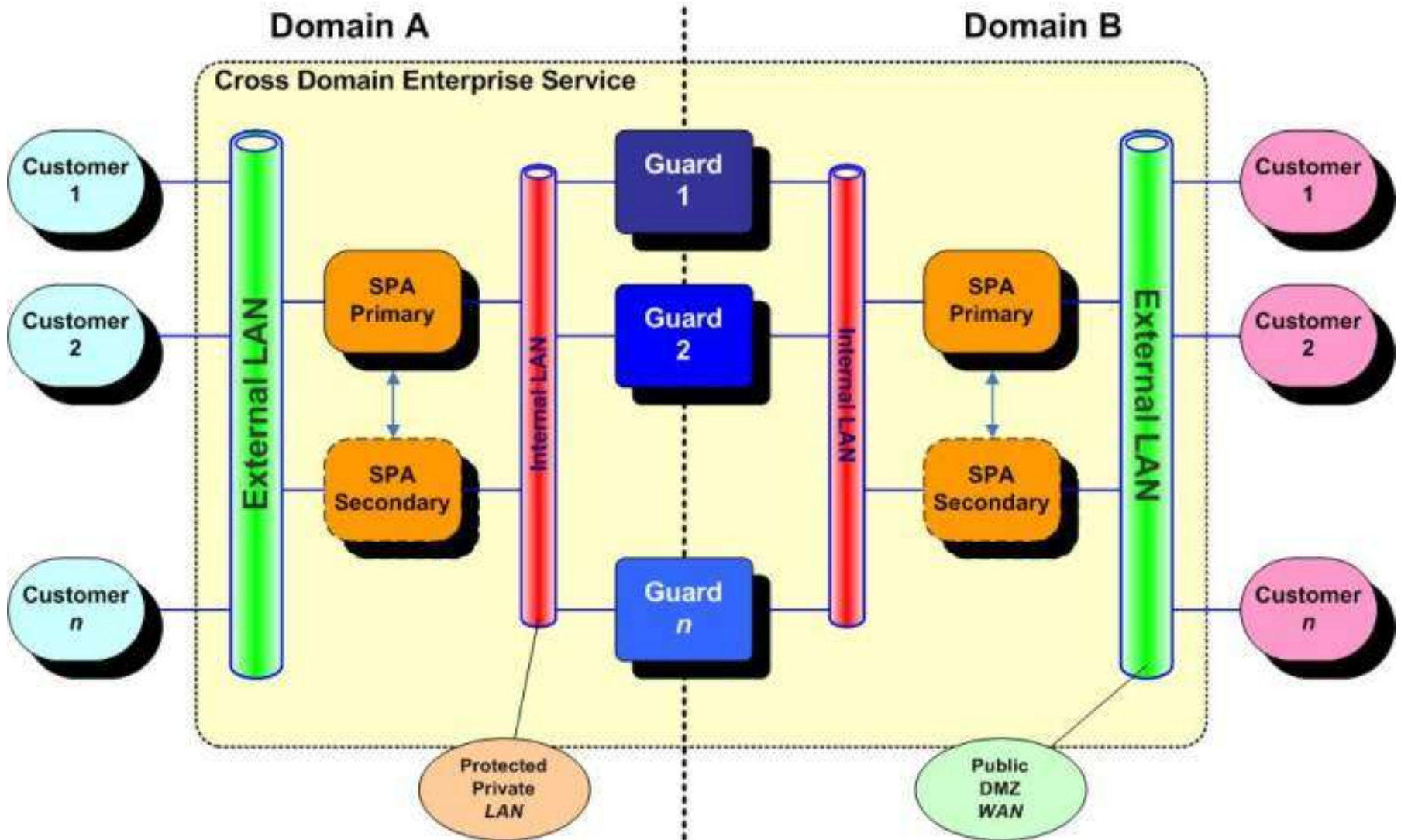


CDES@disa.mil



Backup Slides

Today's CDES Architecture





Technology in CDES

Guarding Technology	CDES Status
Trusted Data Exchange (TDX) 2.3	Fielded (Projected Sunset = 2012)
Radiant Mercury (RM) 4.5	Fielded (Aug 09)
Information Support Server Environment (ISSE) 3.6	Planned (Nov 09)
Cross Domain Web Services Gateway (CDWSG) – On DSG 2.1 platform	Planned (FY10 / Q1)
Data Sync Guard (DSG) 3.0	Planned (FY10)
Cross Domain Collaborative Information Environment (CDCIE) – On DSG 3.0 platform	Planned (FY10)
Other baseline technologies as requirements emerge	TBD



Overall DoD Benefits

- **Standardized Security Management**
- **Centralized Accountability**
- **Reduced Risk: Fewer guards & connections between network security domains**
- **Economy of Scale savings: Reduced overall total cost of ownership for DoD cross domain capabilities**

Reasons why CDES receives referrals from the DSAWG

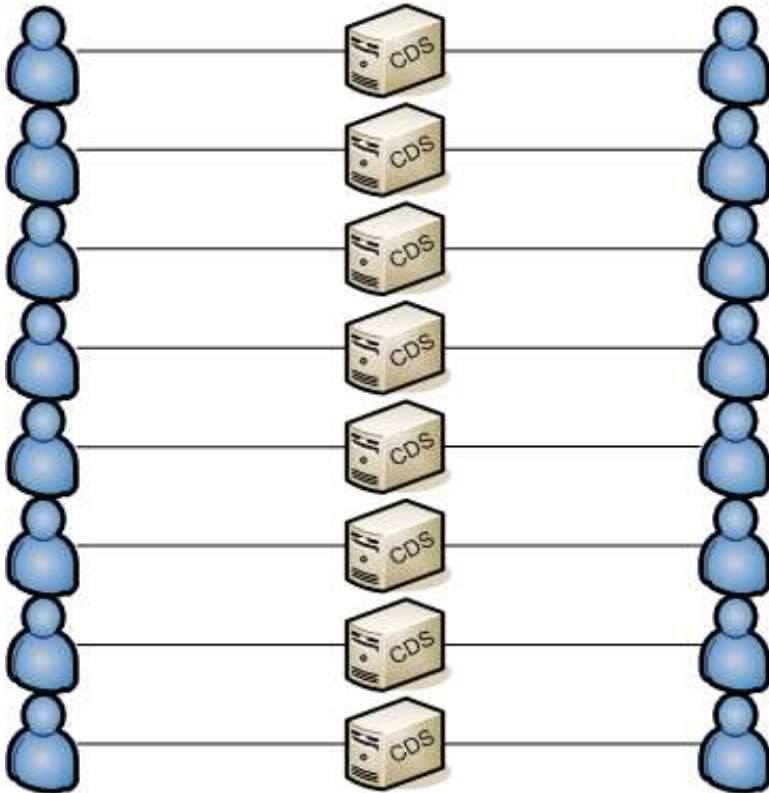
What we do

Operational/System Overview

Point-to-Point (P2P) Solution

NIPRNet

SIPRNet

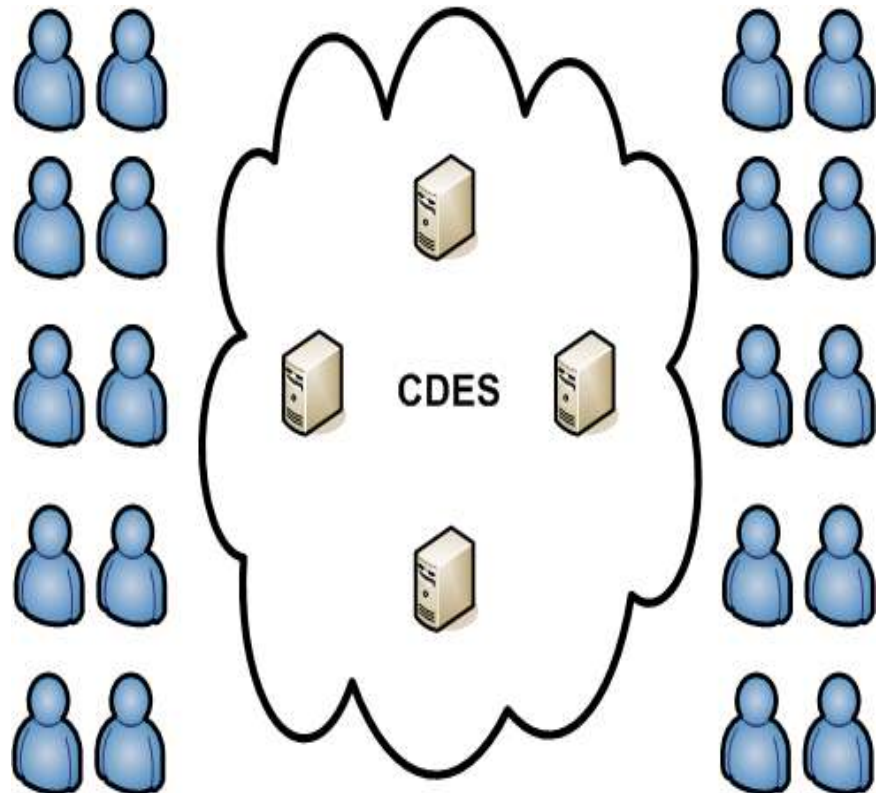


One-to-One
(One CDS for each customer)

Enterprise Service

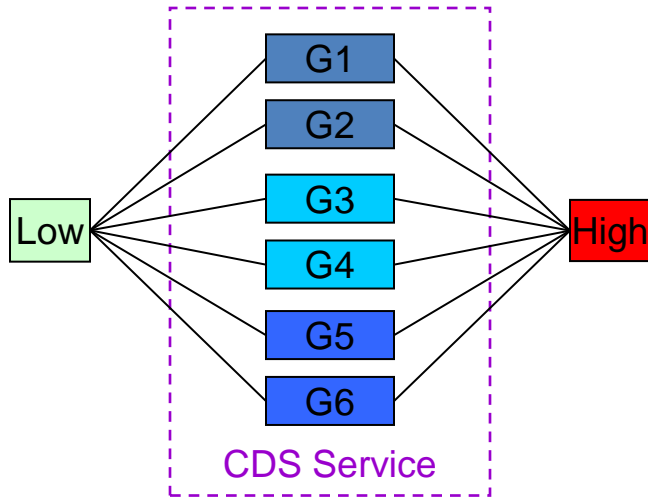
NIPRNet

SIPRNet

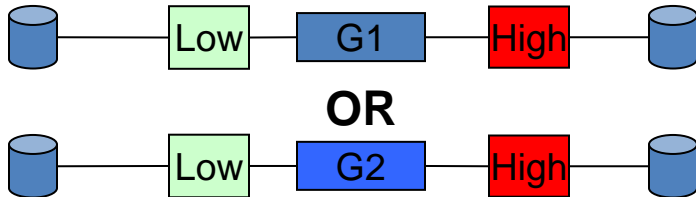


One-to-Many
(One CDS for multiple customers)

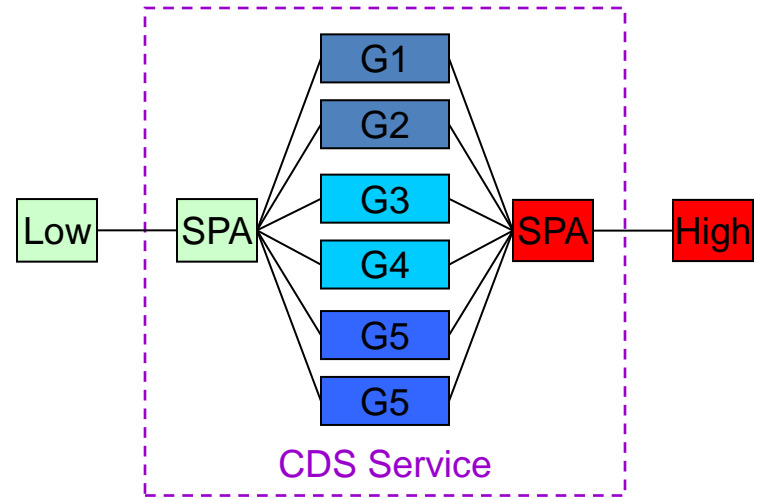
Consolidation vs Service



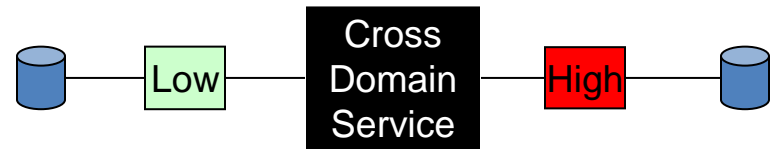
To the customer, this looks like:



This is CONSOLIDATION!



To the customer, this looks like:



This is a SERVICE!



Additional Cross Domain OPRs

Contact Information Available Upon Request

- JS J6
- DISA CDSO
- NGA CDSO
- NSA CDSO
- EUCOM J6
- Unified Cross Domain Management Office (UCDMO)

Forward Request to: CDES@disa.mil