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Defending DoD Missions in the Commercial Cloud

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Cybersecurity – Risk Management

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Data Categorization



IMPACT LEVELS

Level 1: Unclassified Information Approved for Public Release

Level 2: Non-Controlled Unclassified Information

Level 3: Controlled Unclassified Information

Level 4: Controlled Unclassified Information

Export Control, PI, PHI, FOUO and others

Level 5: Controlled Unclassified Information

CUI Requiring Higher Protection, i.e. NSSs

Level 6: Classified Information up to SECRET



The data needs to drive the level of protection and defense required!

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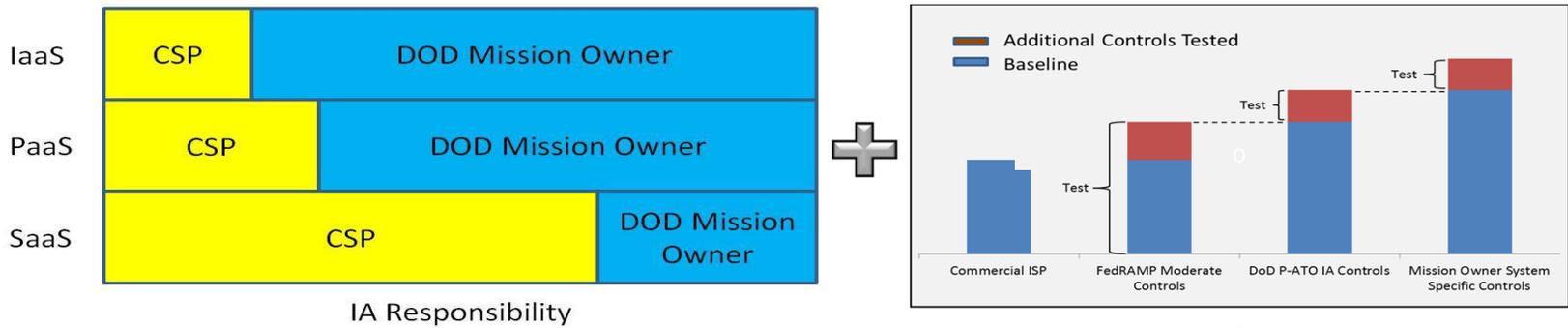
Key Security Requirements

IMPACT LEVEL	INFORMATION SENSITIVITY	SECURITY CONTROLS	LOCATION	OFF-PREMISES CONNECTIVITY	SEPARATION	PERSONNEL REQUIREMENTS
2	PUBLIC or Non-critical Mission Information	FedRAMP v2 Moderate	US / US outlying areas or DoD on-premises or AO authorized locations	Internet	Virtual / Logical PUBLIC COMMUNITY	National Agency Check and Inquiries (NACI)
4	CUI or Non-CUI Critical Mission Information Non-National Security Systems	Level 2 + CUI-Specific Tailored Set	US / US outlying areas or DoD on-premises or AO authorized locations	NIPRNet via CAP	Virtual / Logical PUBLIC COMMUNITY Strong Virtual Separation Between Tenant Systems & Information	ADP-1 Single Scope Background Investigation (SSBI) ADP-2 National Agency Check with Law and Credit (NACLC)
5	Higher Sensitivity CUI National Security Systems	Level 4 + NSS & CUI-Specific Tailored Set	US / US outlying areas or DoD on-premises	NIPRNet via CAP	Virtual / Logical FEDERAL GOV. COMMUNITY Dedicated Infrastructure	Non-Disclosure Agreement (NDA)
6	Classified SECRET National Security Systems	Level 5 + Classified Overlay	US / US outlying areas or DoD on-premises CLEARED / CLASSIFIED FACILITIES	SIPRNET via CAP	Virtual / Logical FEDERAL GOV. COMMUNITY Dedicated Infrastructure	Favorably Adjudicated SSBI SECRET Clearance NDA

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Risk Management



AO Decision



- Identify Cloud Service Provider (CSP) Offering (s) with DoD Provisional ATO (P-ATO) against mission data security requirements
- Select CSP after comparing risk profiles
- Reciprocity: maximize use of existing body of evidence (e.g. scope, testing, results, residual risk)
- Identify and resolve any additional testing requirements
- If risk is acceptable: Issue a Mission Owner ATO, explicitly reflecting acceptance of risk and liabilities in DoD P-ATO for system and mission.

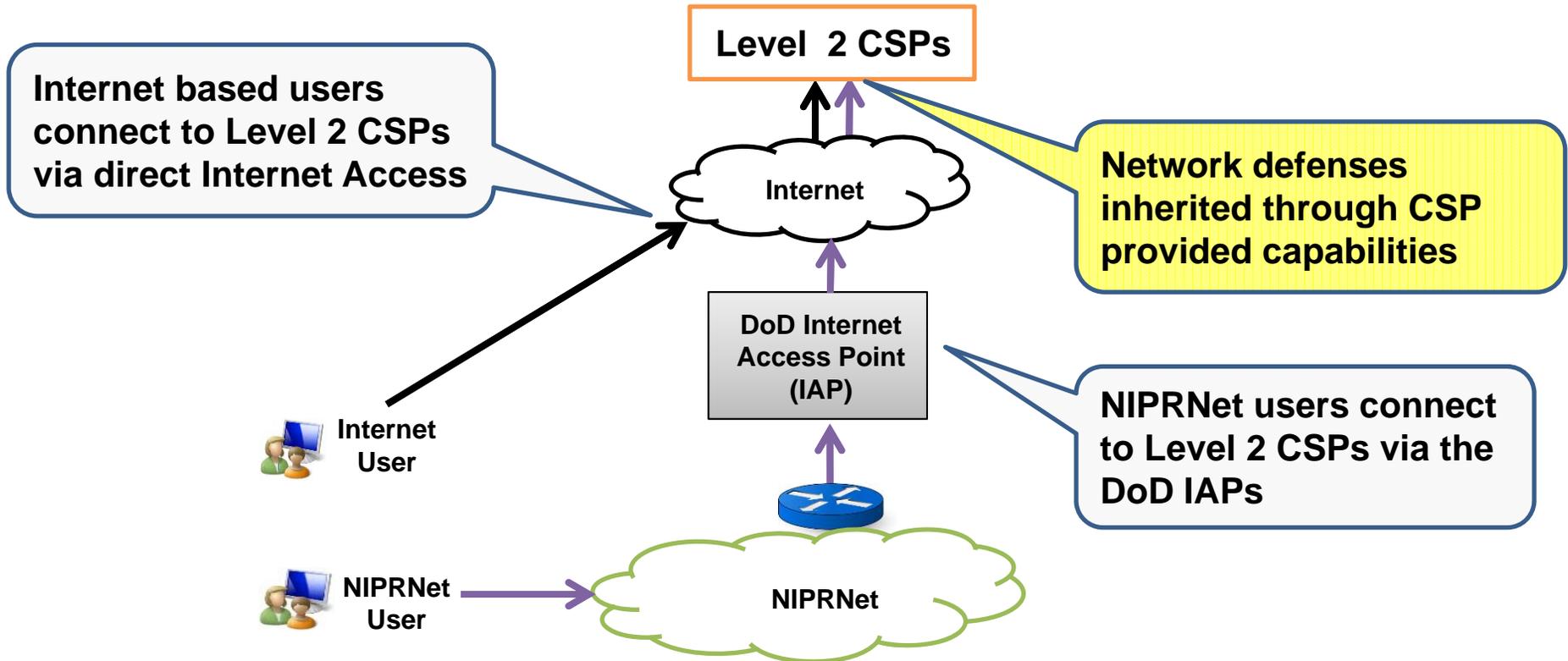




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Cloud Defense Objectives

Level 2 Commercial Cloud



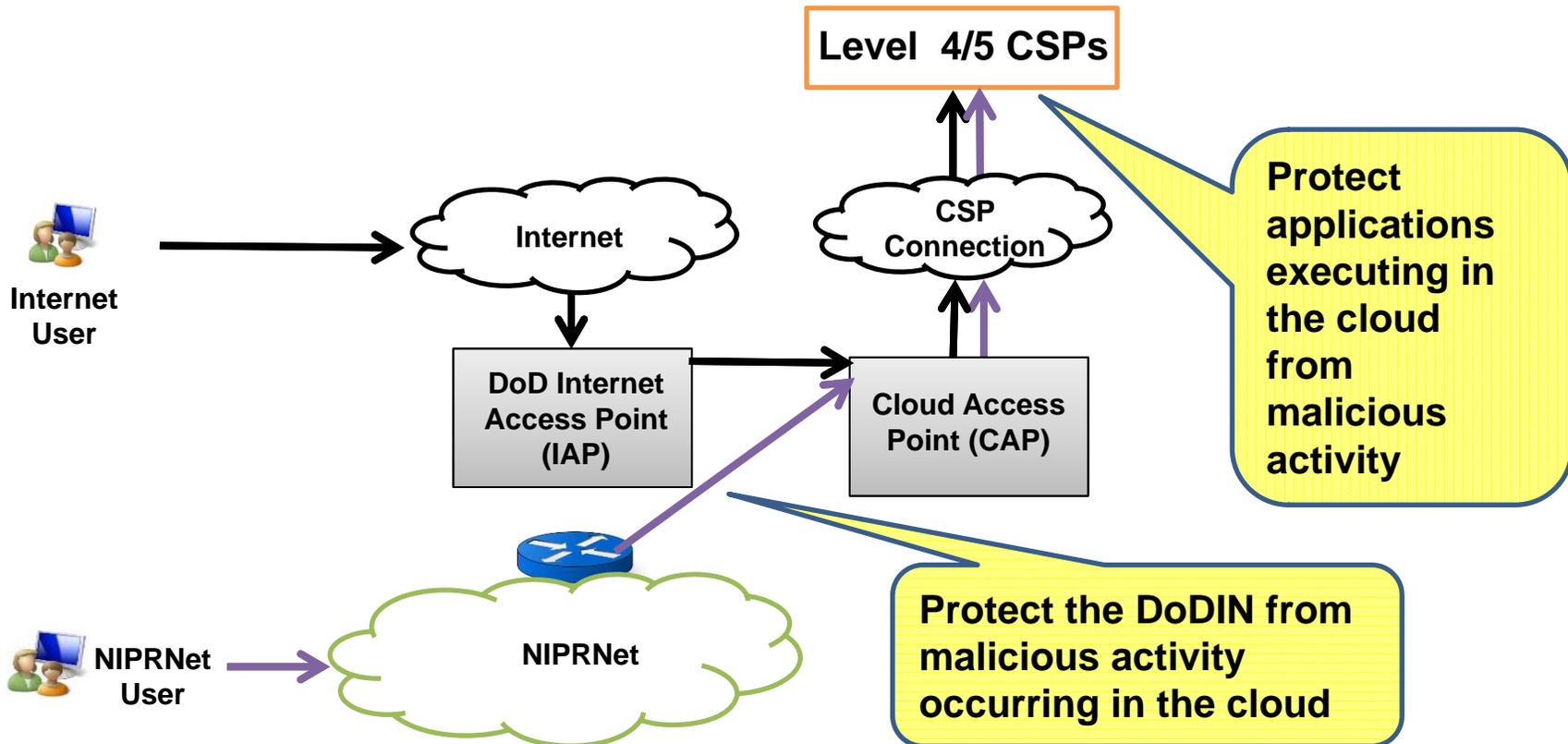
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Cloud Defense Objectives

Level 4/5 Commercial Cloud



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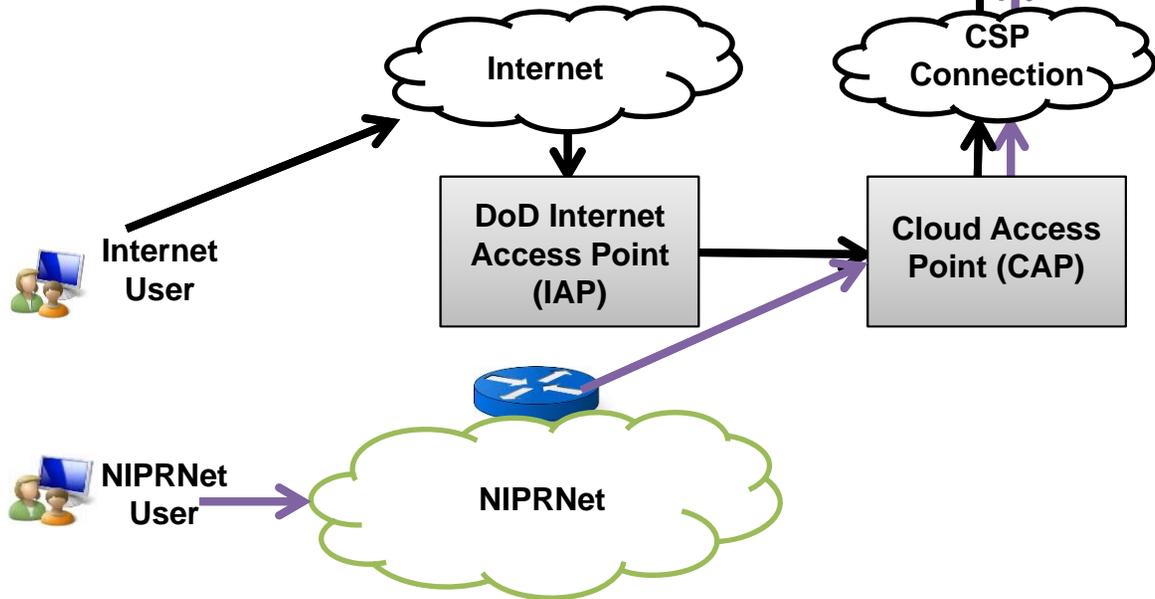


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DCO Responsibilities

ELEMENTS OF DCO/CND
Intrusion Detection/Prevention System (IDPS)
Firewall Capabilities
Enterprise Information Assurance
Enclave Security
Application Protection
Logging and Analysis

DCO is a shared responsibility between DISA, CND providers, the CSP, and Mission Owners

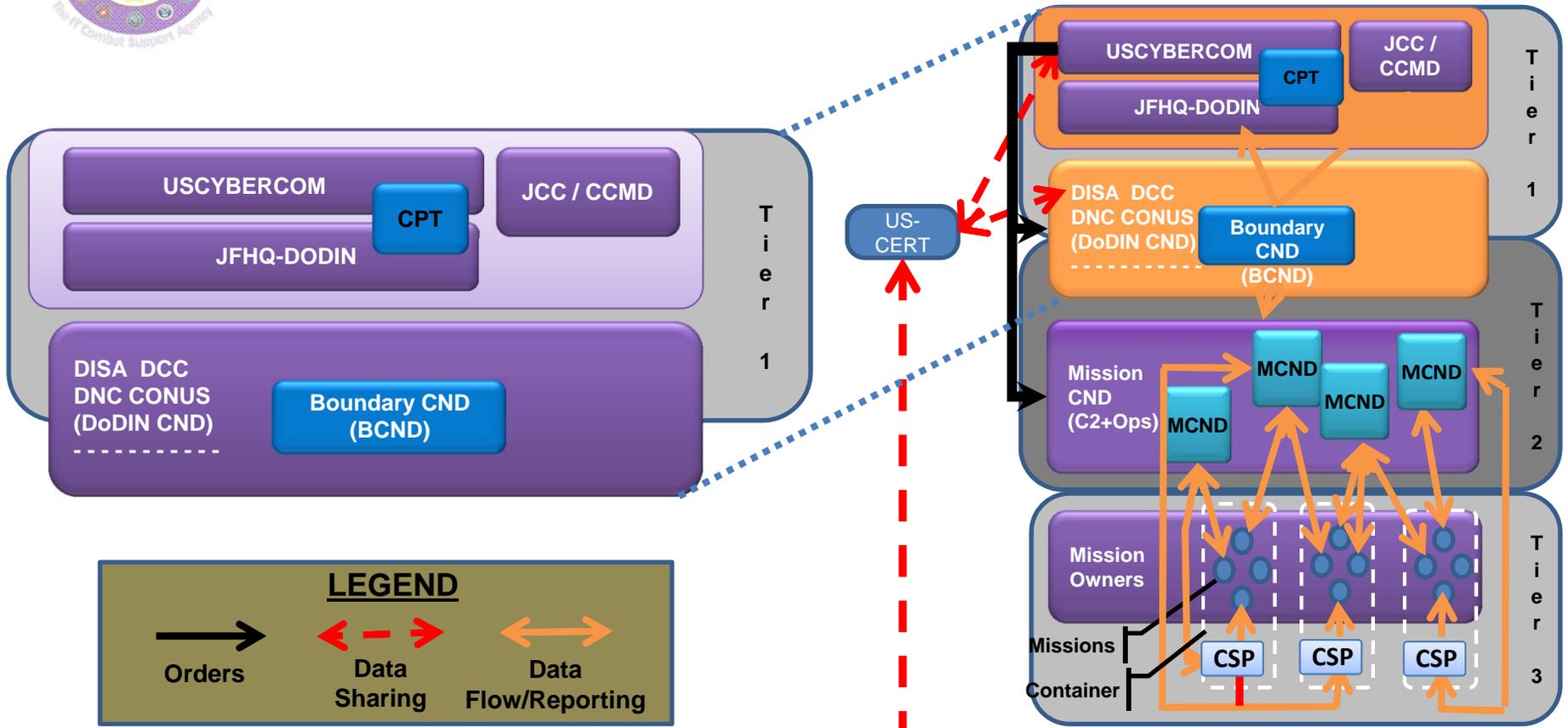


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Boundary CND Providers

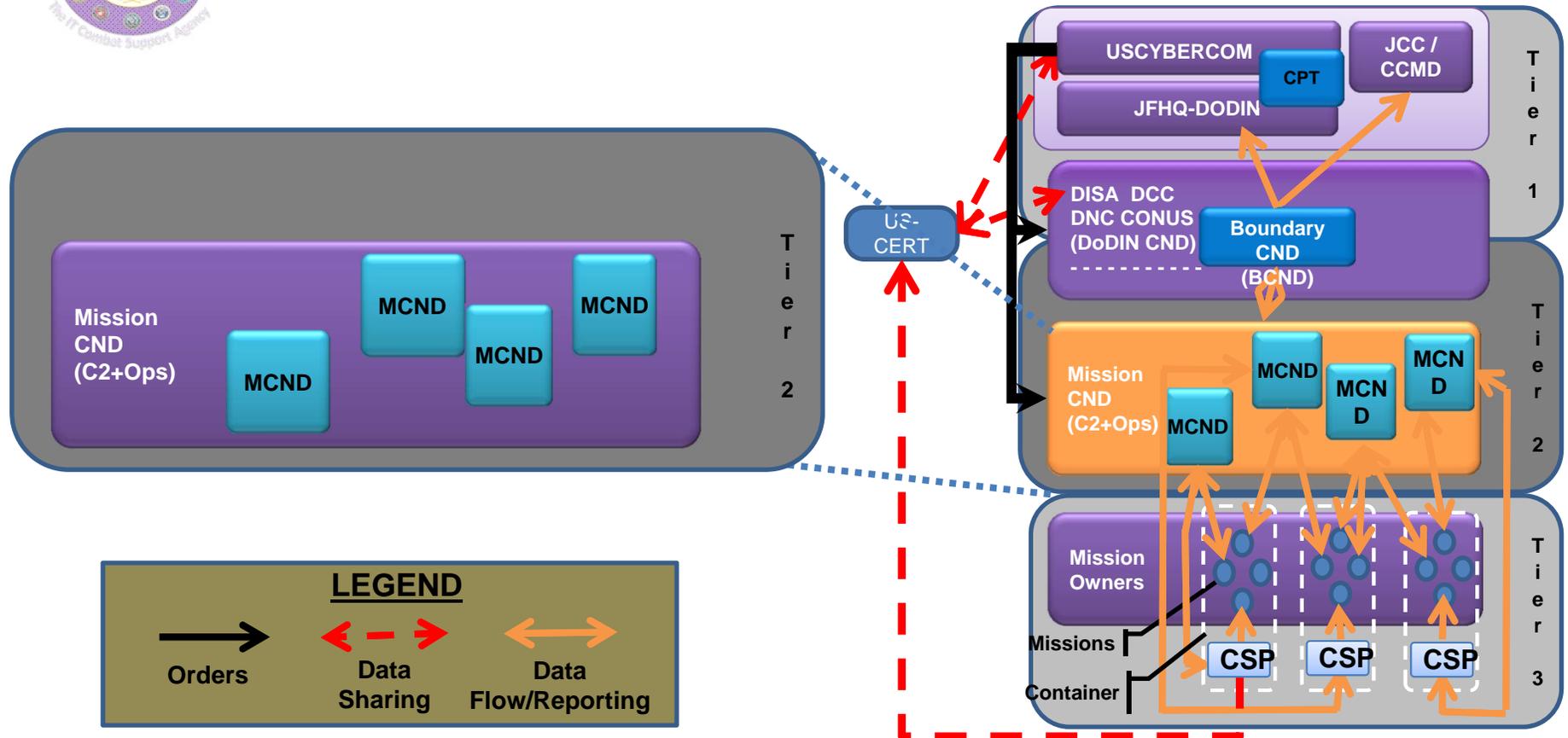


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Mission CND Providers

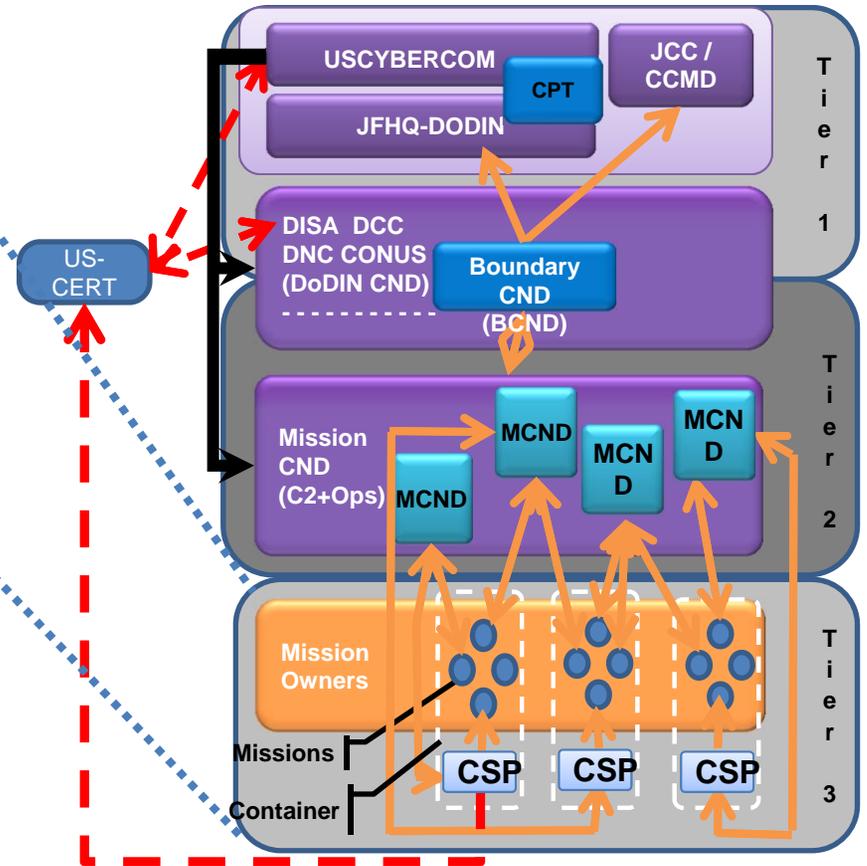
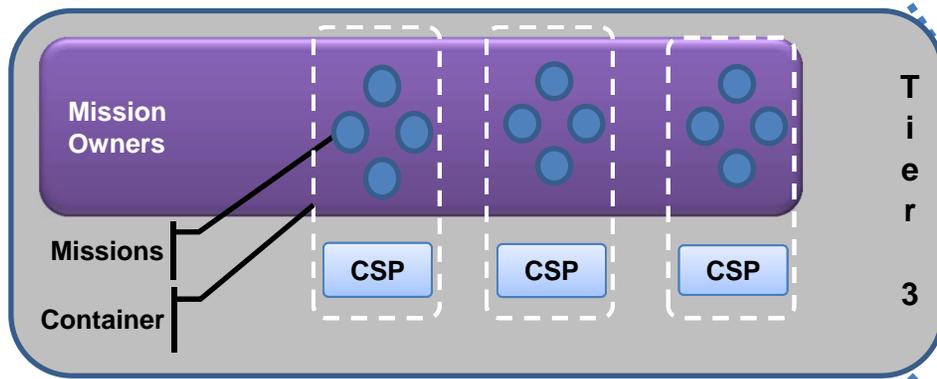


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Mission Owners / CSPs



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Rolling into the Cloud!



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Contact/POC Information

Information

www.disa.mil

Website or Program External Link

<http://www.disa.mil/Computing/Cloud-Services/Cloud-Support>

<https://disa.deps.mil/disa/org/atb/Cloud%20Broker/Pages/default.aspx>

EMAIL

<https://disa.deps.mil/disa/org/atb/Cloud%20Broker/Pages/Contact%20Us.aspx>

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