



Collaborative Partner Environment (CPE) AFCEA Conference

CCJ6

MAJ Kortabani (CPE Innovation Lead)

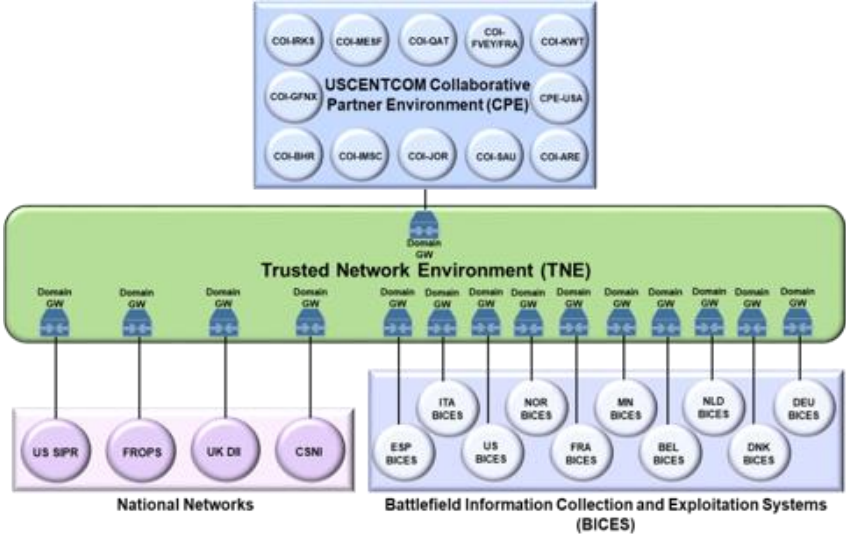
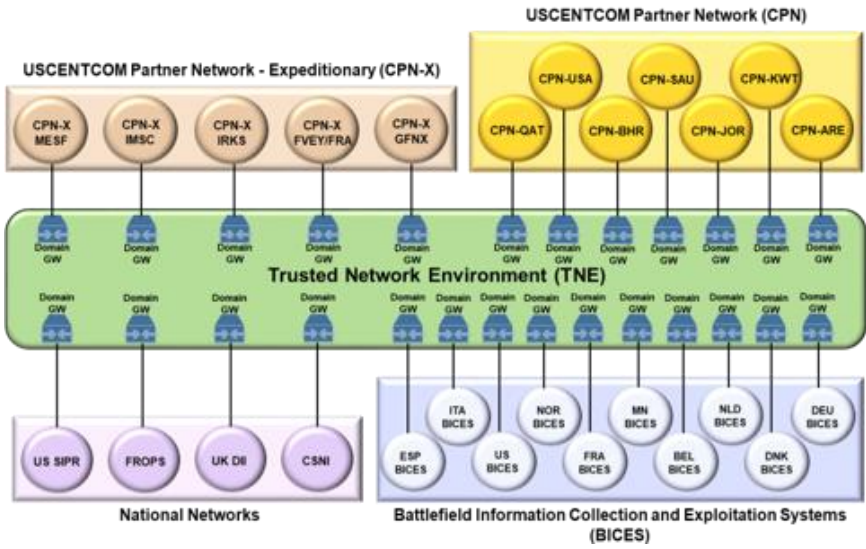
17 August 2022

The overall classification of this brief is
UNCLASSIFIED

Mission Partner Environment: Problem Statement



USCENTCOM requires an agile network to support all Mission Partners at the speed of the operation



- **USCENTCOM** manages **12 distinct** REL networks
- Yesterday...stove piped networks
- Data flows "North/South" only

- Data CAN flow "East/West" as well
- Security "baked-in" at data level

Network Centric

Data Centric

Allows all coalition nations to operate in one collaborative environment

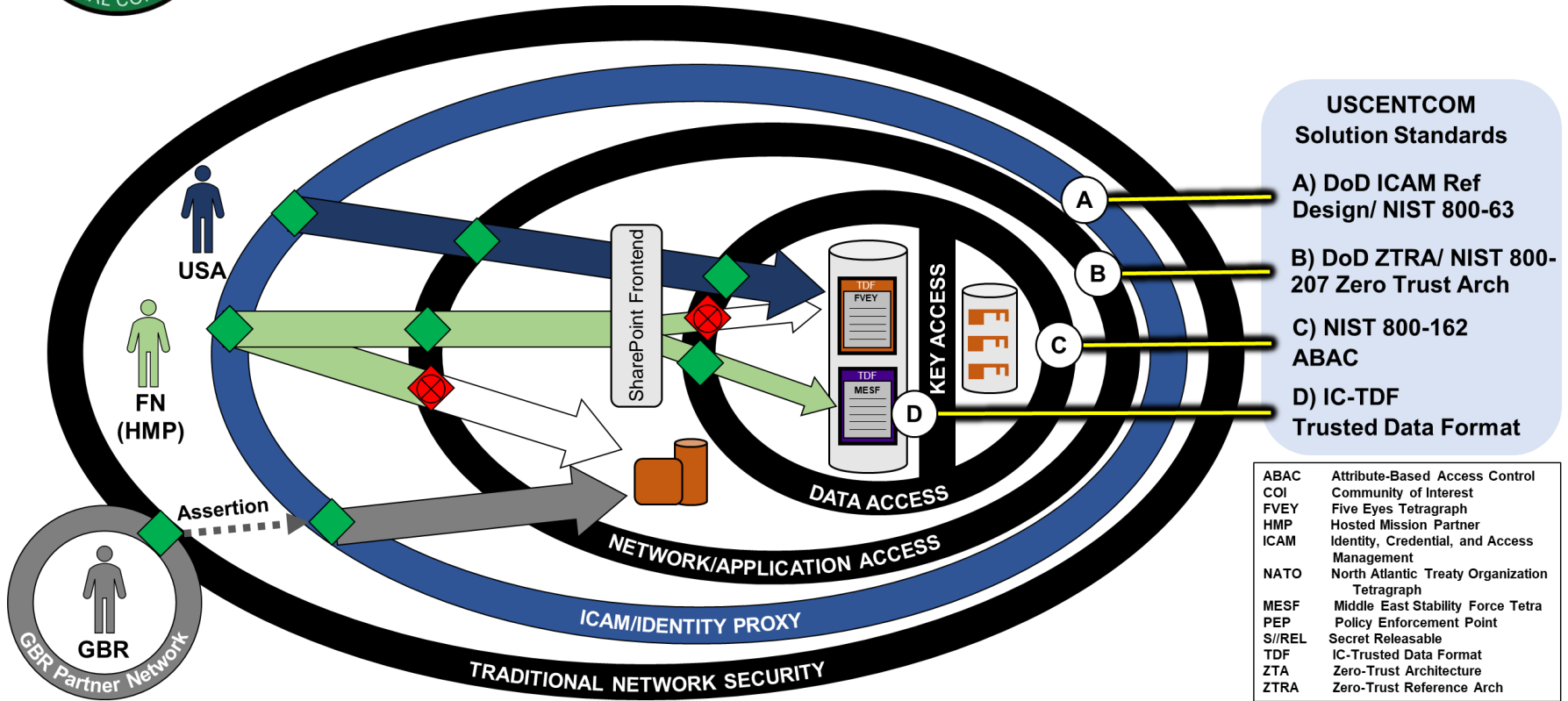


Mission Partner Environment: DoD Policy and CCDR Directives

- **DoD Memorandum “Guidance to Support Rapid and Agile Sharing of Secret Releasable Information with Mission Partners”**
 - Released 10 March 2020
 - Clarified that all SEC//REL networks are of the same Security Domain
 - CDS is not required if Alternative Security Measures are implemented
- **DoD Memorandum “Threshold Guidance for Implementing Security Mechanisms within Mission Partner Environment Information Domains”**
 - Released 5 October 2020
 - Lists the Alternative Security Measures
- **USCENTCOM CDR “Mission Partner Environment” Memo to the Secretary of Defense**
 - Released 7 Dec 2020
 - Conveys USCENTCOM intent to rapidly move to data centric MPE called Collaborative Partner Environment (CPE)
- **POTUS Executive Order 14028 “Improving the Nation’s Cybersecurity”**
 - Released 12 May 2021
 - Calls for the DoD and all federal agencies to advance Zero Trust Architecture



Collaborative Partner Environment (CPE): Data-Centric Technologies



- USCENTCOM Solution Standards**
- A) DoD ICAM Ref Design/ NIST 800-63
 - B) DoD ZTRA/ NIST 800-207 Zero Trust Arch
 - C) NIST 800-162 ABAC
 - D) IC-TDF Trusted Data Format

ABAC	Attribute-Based Access Control
COI	Community of Interest
FVEY	Five Eyes Tetragraph
HMP	Hosted Mission Partner
ICAM	Identity, Credential, and Access Management
NATO	North Atlantic Treaty Organization
MESF	Middle East Stability Force Tetra
PEP	Policy Enforcement Point
S//REL	Secret Releasable
TDF	IC-Trusted Data Format
ZTA	Zero-Trust Architecture
ZTRA	Zero-Trust Reference Arch

	User		Tagged Data from Specified COI in TDF wrapper		Datacentric Mission Command Application		Legacy Mission Command System		Security Control
	External Network Identity Provider				Datacentric Database		Validated Identity		Access Approved
							Identity Claim/Assertion		Access Denied

CPE is a single S//REL environment that allows for information sharing with partners in support of Joint All-Domain Command and Control (JADC2).



Questions?



CPE Points of Contact

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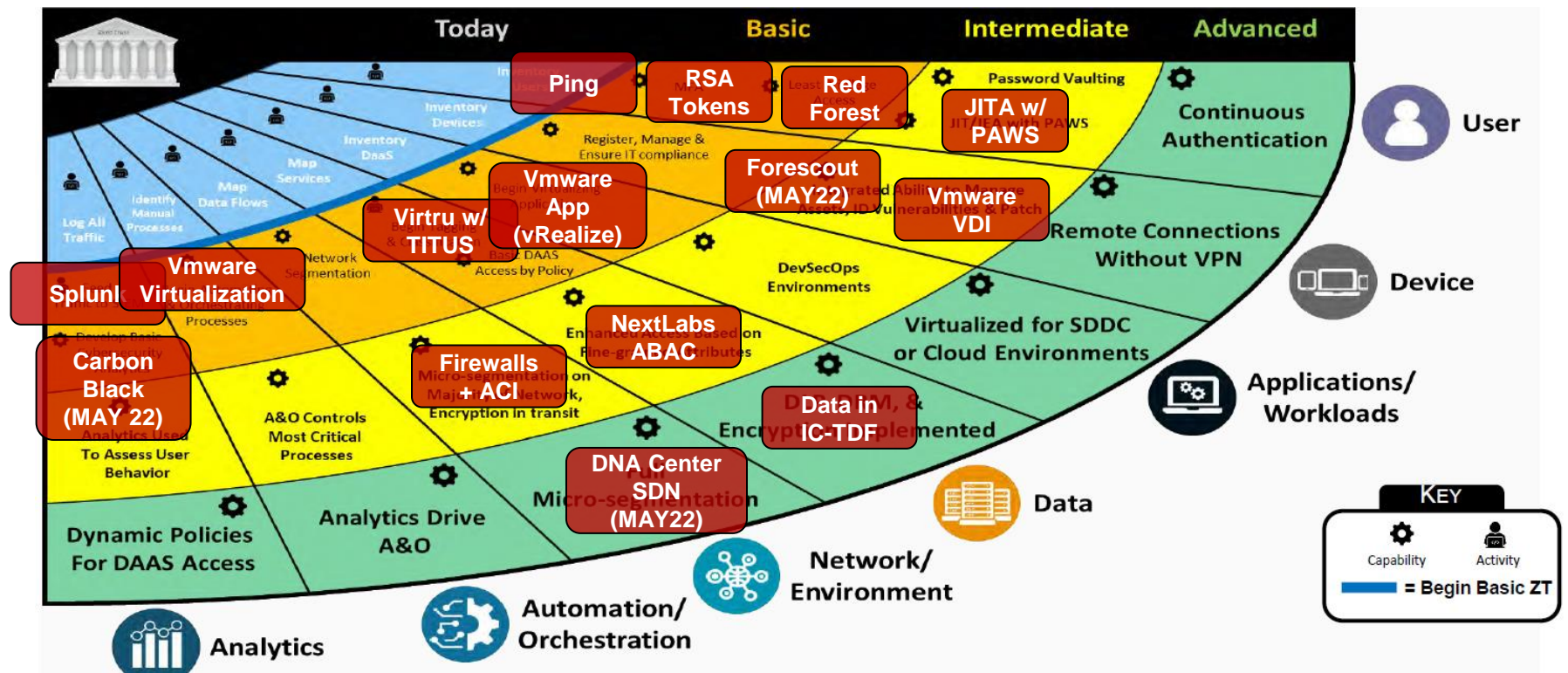
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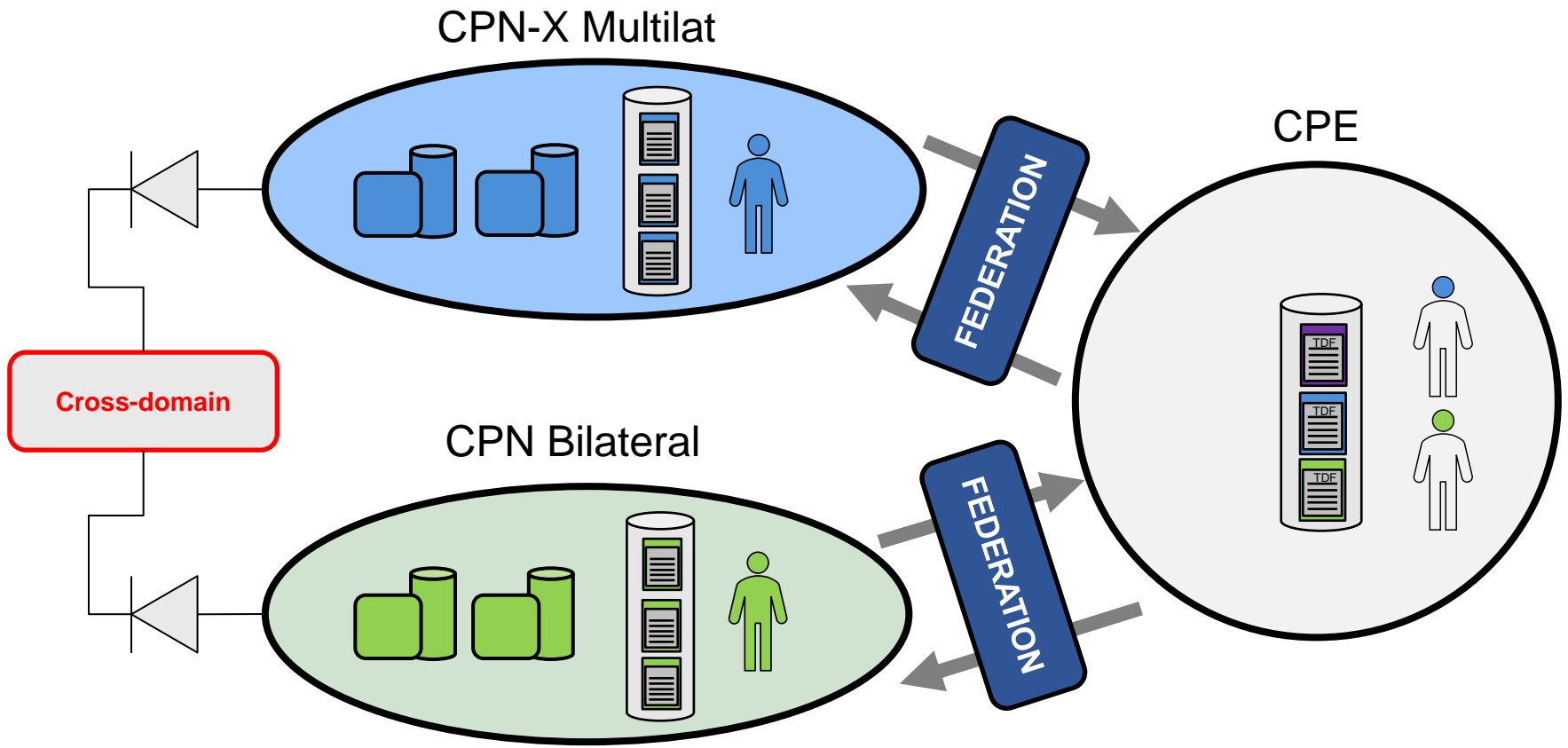


CPE Zero Trust Mapping 16Aug22





Phase 1: Federation



Impact to CPN-X/CPN:

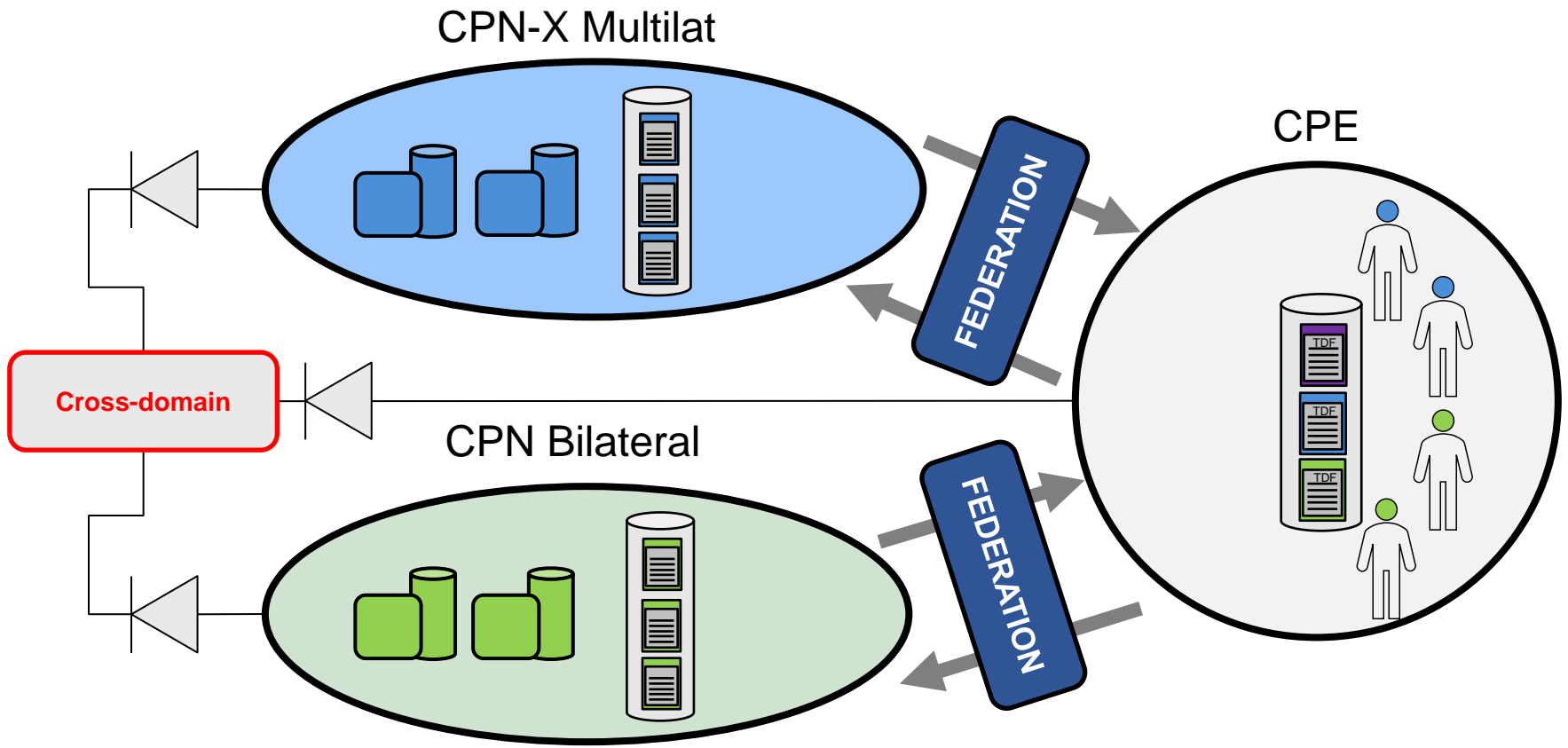
- CPN-X/CPN users will continue to operate as before on their multilateral and bilateral mission networks.
- CPN-X/CPN users can use the CPE to pass information between mission networks without using a cross-domain.

Impact to CPE:

- CPE users will be able to access mission command systems and legacy data on the mission networks.



Phase 2: User Migration



Impact to CPN-X/CPN:

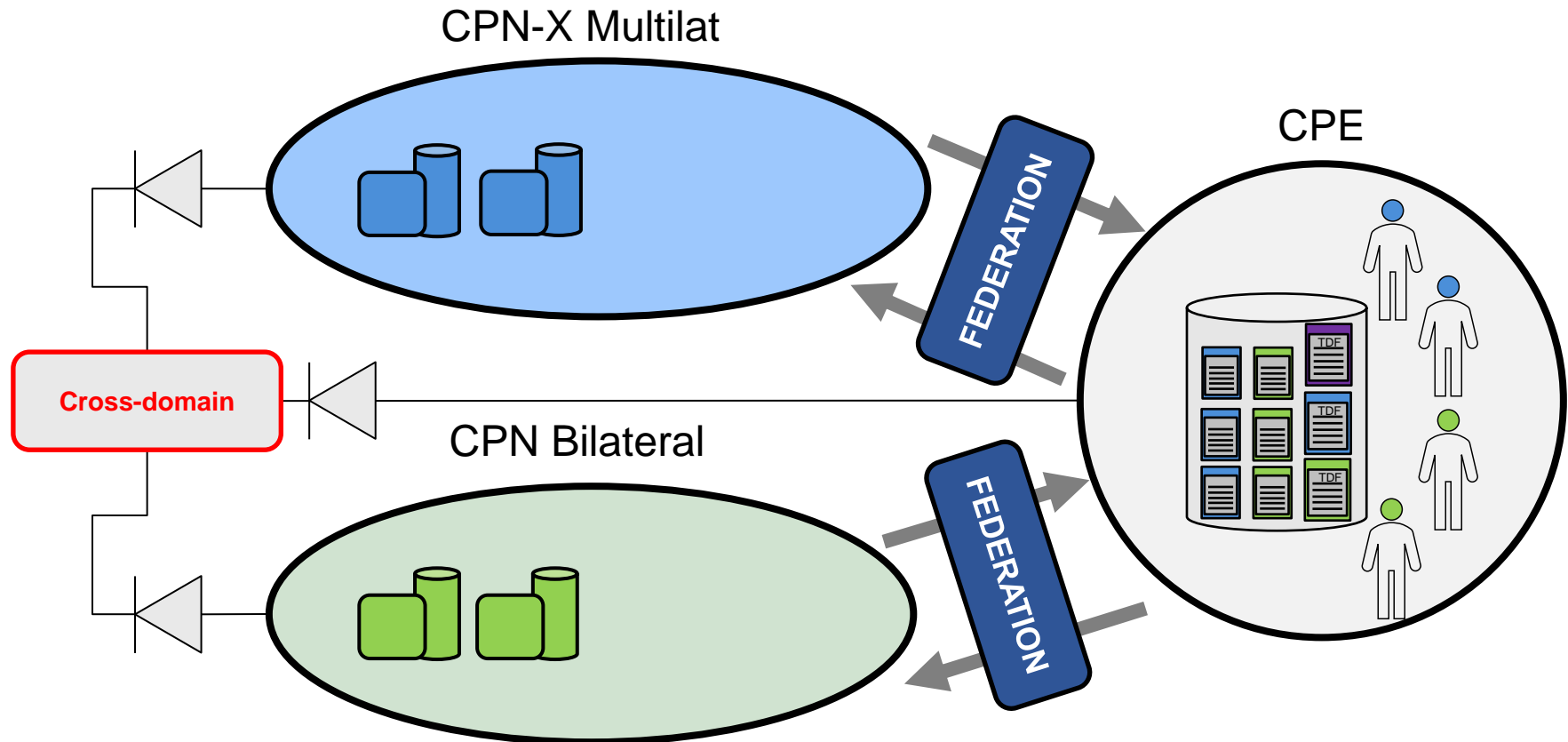
- All CPN-X/CPN users will receive a new account/email and their multiple legacy account/emails will be deprecated.

Impact to CPE:

- CPE users and systems will be able to transfer information through the cross-domain to SIPR.



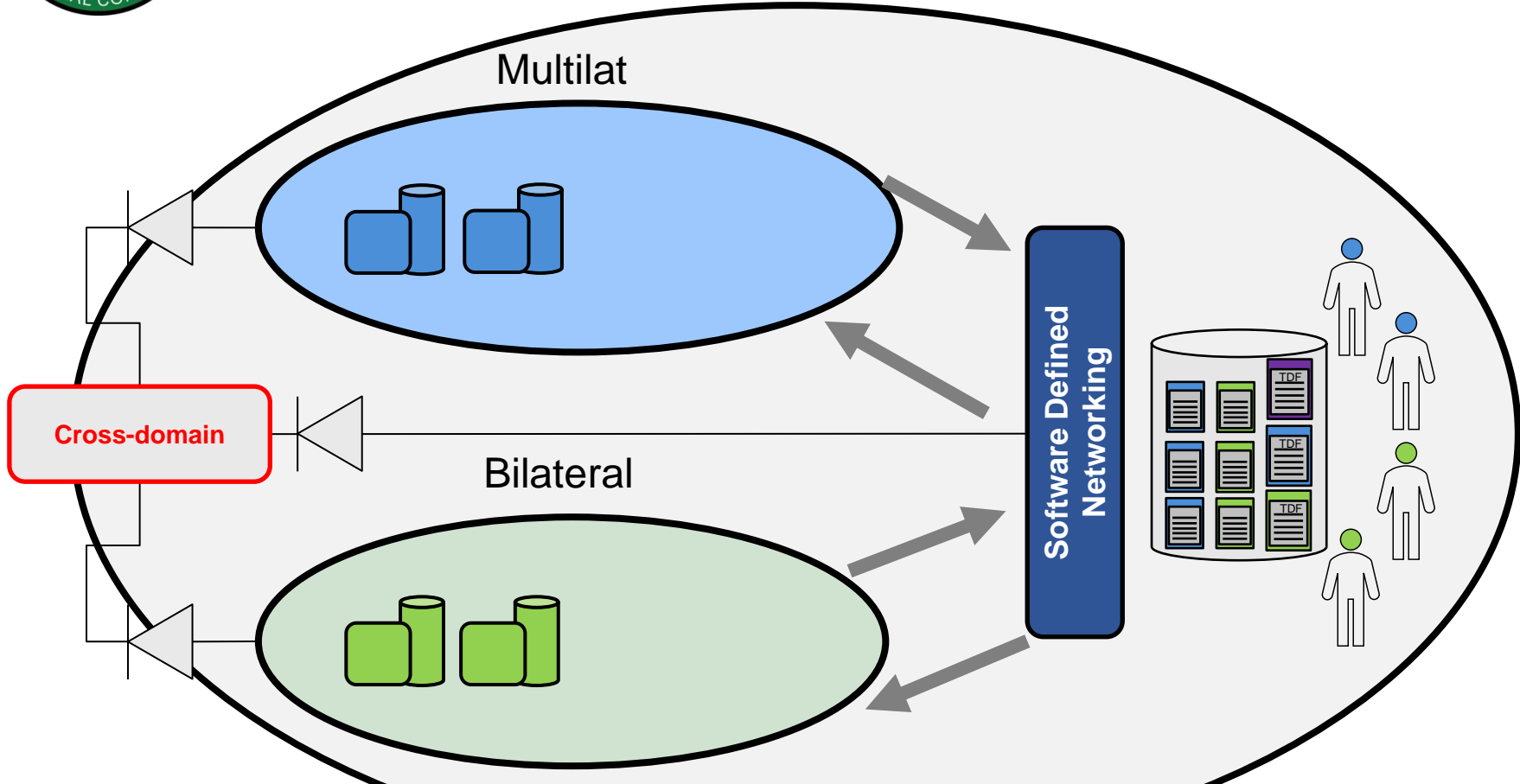
Phase 3a: Data Migration



<p>Impact to CPN-X/CPN:</p> <ul style="list-style-type: none">• Mission SharePoint decommission following bulk-tagging of the data and transfer to CPE SharePoint.	<p>Impact to CPE:</p> <ul style="list-style-type: none">• All users have access to the appropriate mission data held in the CPE SharePoint.
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Phase 3b: Network Migration



Impact to CPN-X/CPN:

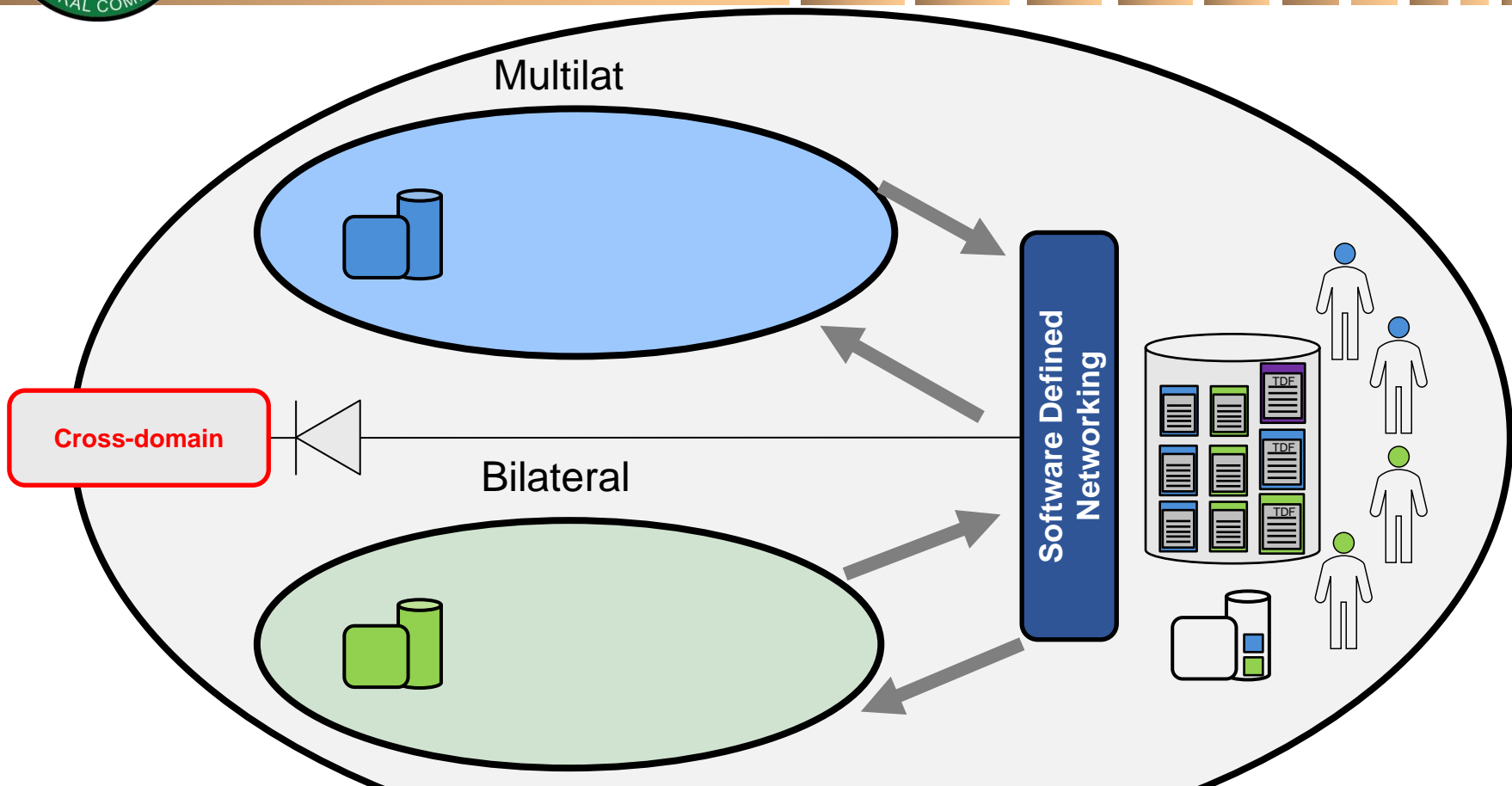
- Mission Command will require some amount of reconfiguration as the domain is changed to CPE.
- CPN-X/CPN nodes reconfigured as CPE nodes.

Impact to CPE:

- No change for CPE users.



Phase 3c: Application Migration



Impact to CPN-X/CPN:

- Some data-centric Mission Command is removed from the CPN-X/CPN microsegments and placed within the CPE.

Impact to CPE:

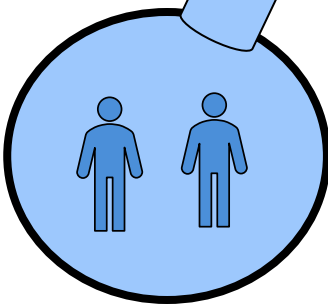
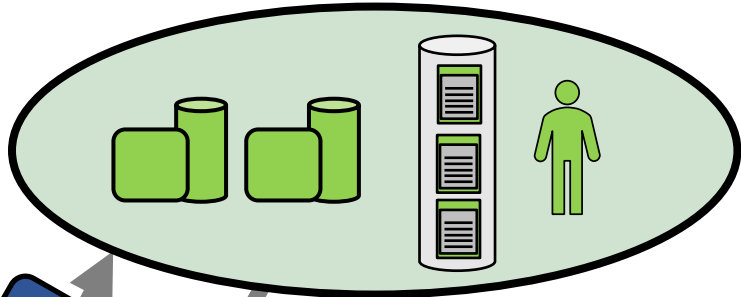
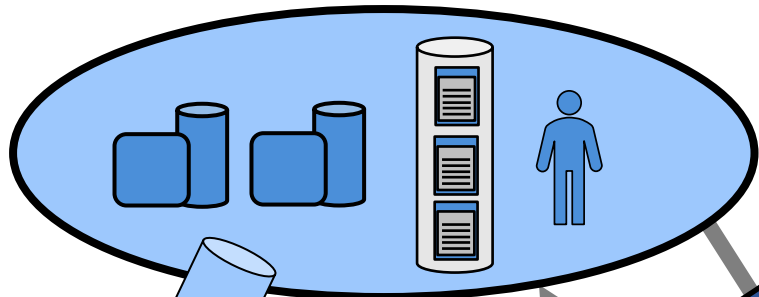
- Total number of duplicate Mission Command systems is reduced.



CPE at IL23

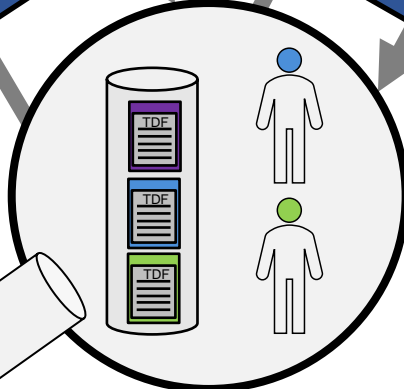
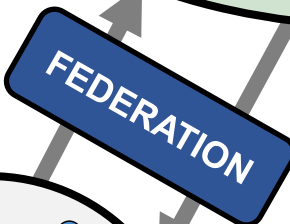
CPN-X FRA, FVEY

CPN-X MESF

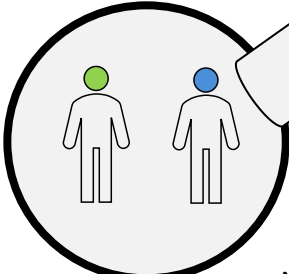


CPN-X FRA, FVEY (UK)

Note: CPN-X FRA, FVEY will also be extended to CAN & FRA



CPE (US)

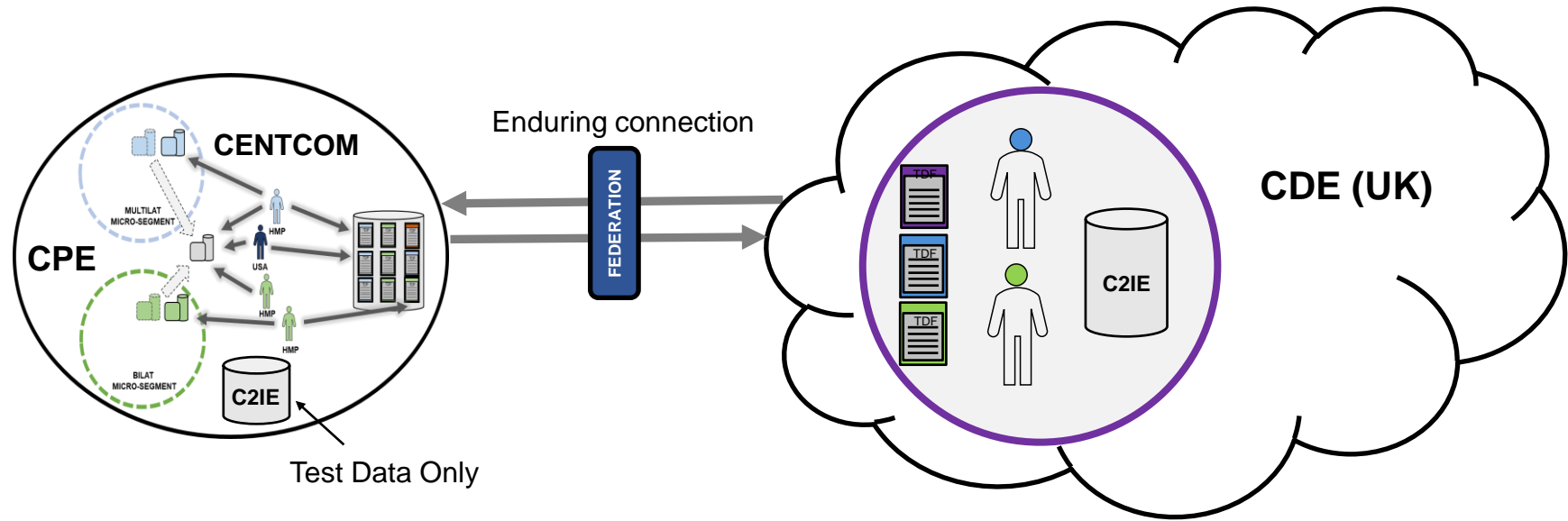


CPE (UK)

Note: JCSE is being utilized to extend CPE



UK CDE - CPE Federation



Test Data Only

Potential Services

- Protected Chat/Email/ File Share
- Voice/Video
- DCS/NCS MSN command
- DCS/DCS MSN command (FMV, COP)
- SIPR Cross-domain
- SDN (ZT)
- Access Control Code