



Cryptologic and Cyber Systems Division



**OVERALL CLASSIFICATION FOR THIS BRIEFING IS
UNCLASSIFIED**



Unified Platform Cyber Factory 8 November 2018

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Providing the Warfighter's Edge

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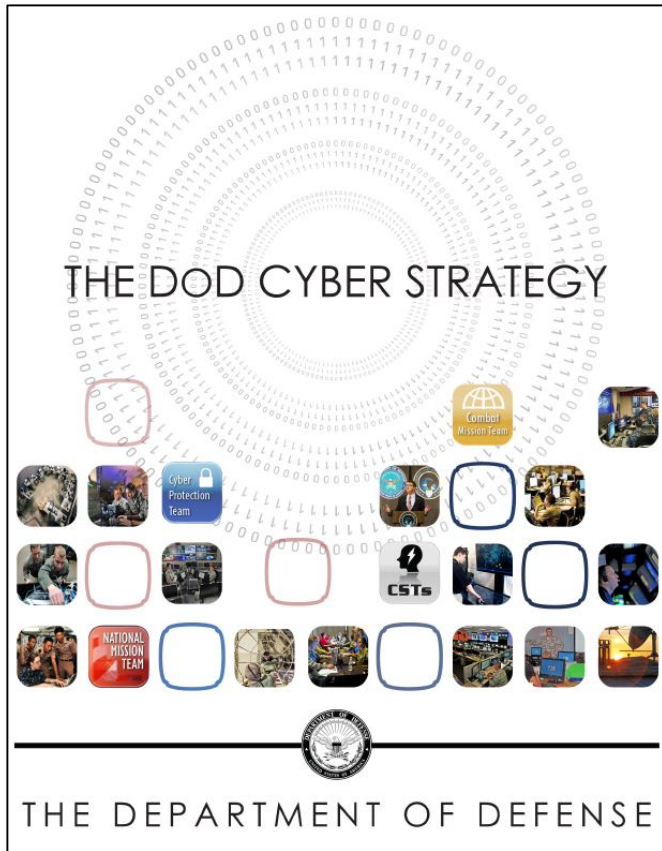
Outline



- **SECDEF Direction**
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- **Framing Philosophy**
- **Strategy**
- **Cyber Mission Threads & Unified Platform**
- **UP Cyber Factory Concept**



SECDEF Direction



**The Department of Defense
Cyber Strategy, April 2015**

“Develop the Unified Platform.

... DoD will develop the detailed requirements for integrating disparate cyber platforms and building an interoperable and extendable network of cyber capabilities. This Unified Platform will **enable the CMF to conduct full-spectrum cyberspace operations in support of national requirements.**”



Unified Platform Overview



- **DEPSECDEF designated AF as Executive Agent on 17 May 2017:**
 - Unified Platform
 - Joint Cyber C2
- **Assigned to Program Executive Office (PEO) for Command, Control, Communications, Intelligence and Networks (C3I&N)**
- **Program Management Offices (PMO) at Cryptologic and Cyber Systems Division**



Framing Philosophy



- **Rapid capability delivery – a must for cyber ops!**
- **Operator-Acquirer-Developer teamwork – key to success**
- **Agile acquisition and commercial best practices required to meet fluid demand for cyber capability**
- **Level of Effort – capabilities in each increment driven by funding and operator priorities**
- **Grow into full-scale agile development – walk/run**
 - **Connect disparate service component capabilities**
 - **Then expand UP core capabilities incrementally**



Strategy



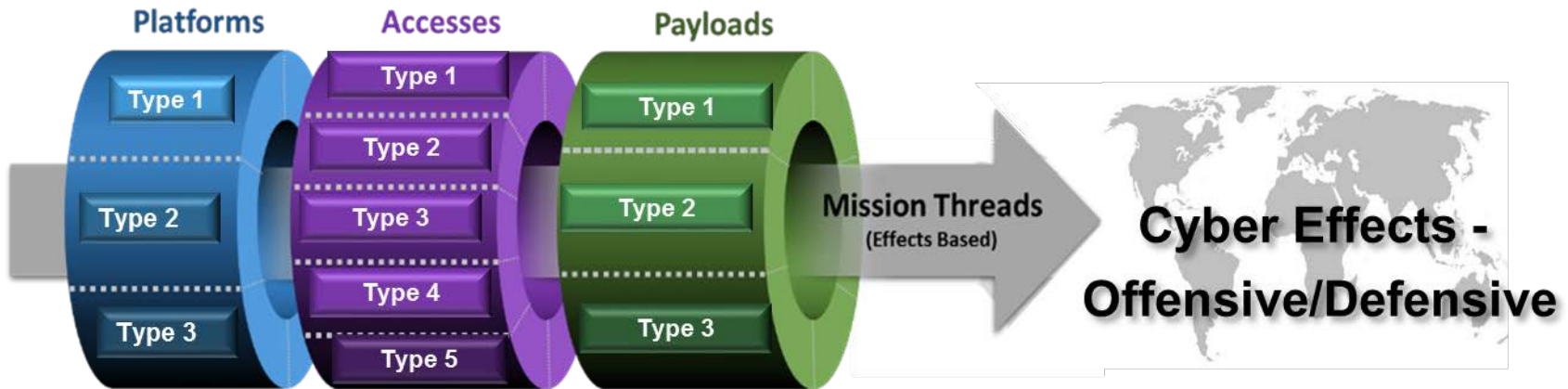
- **Apply agile acquisition tenets to ALL aspects of UP program - Programmatic, engineering, design, test, delivery and responsive sustainment**
- **Leverage available cloud-native technologies**
- **Integrate mission data through common Application Programming Interfaces and data standards**
- **Connecting disparate service component capabilities first, then expanding UP capabilities incrementally**



Cyber Mission Threads & Unified Platform



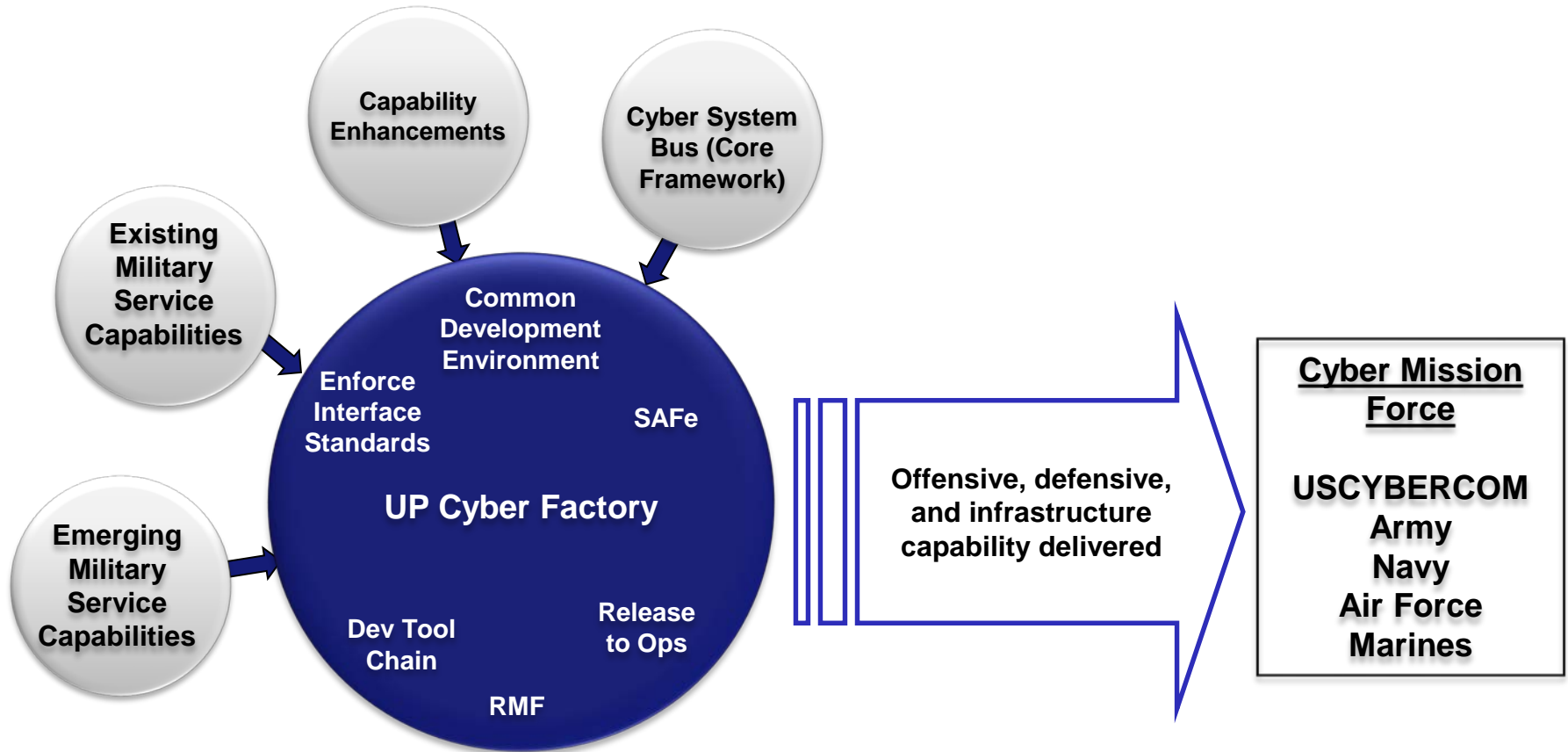
- Platform, access, & payload link to provide cyber effects
- Modularity allows for agile operations via tailored mission threads
- Framework provides standard interface and bridging for existing/future cyber weapon systems



Deliver incremental Unified Platform capabilities to the Joint warfighter



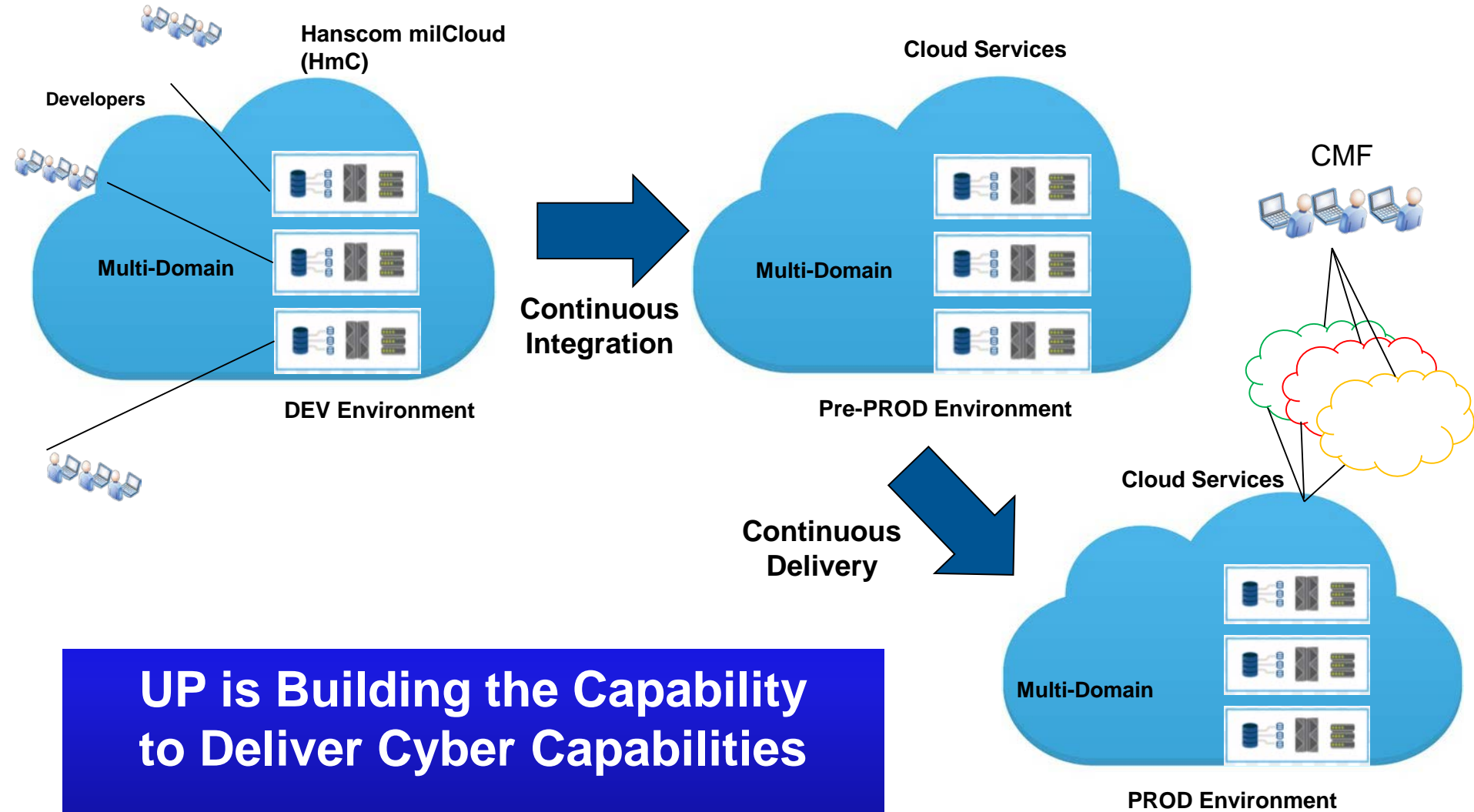
UP Cyber Factory Concept



- UP Cyber Factory enables distributed development and capability delivery
- Includes development of Core UP framework and Capability Enhancements
- Integration of existing and new military service capabilities
- Scalable, automated, continuous integration, continuous delivery



UP Cyber Factory





UP Cyber Factory

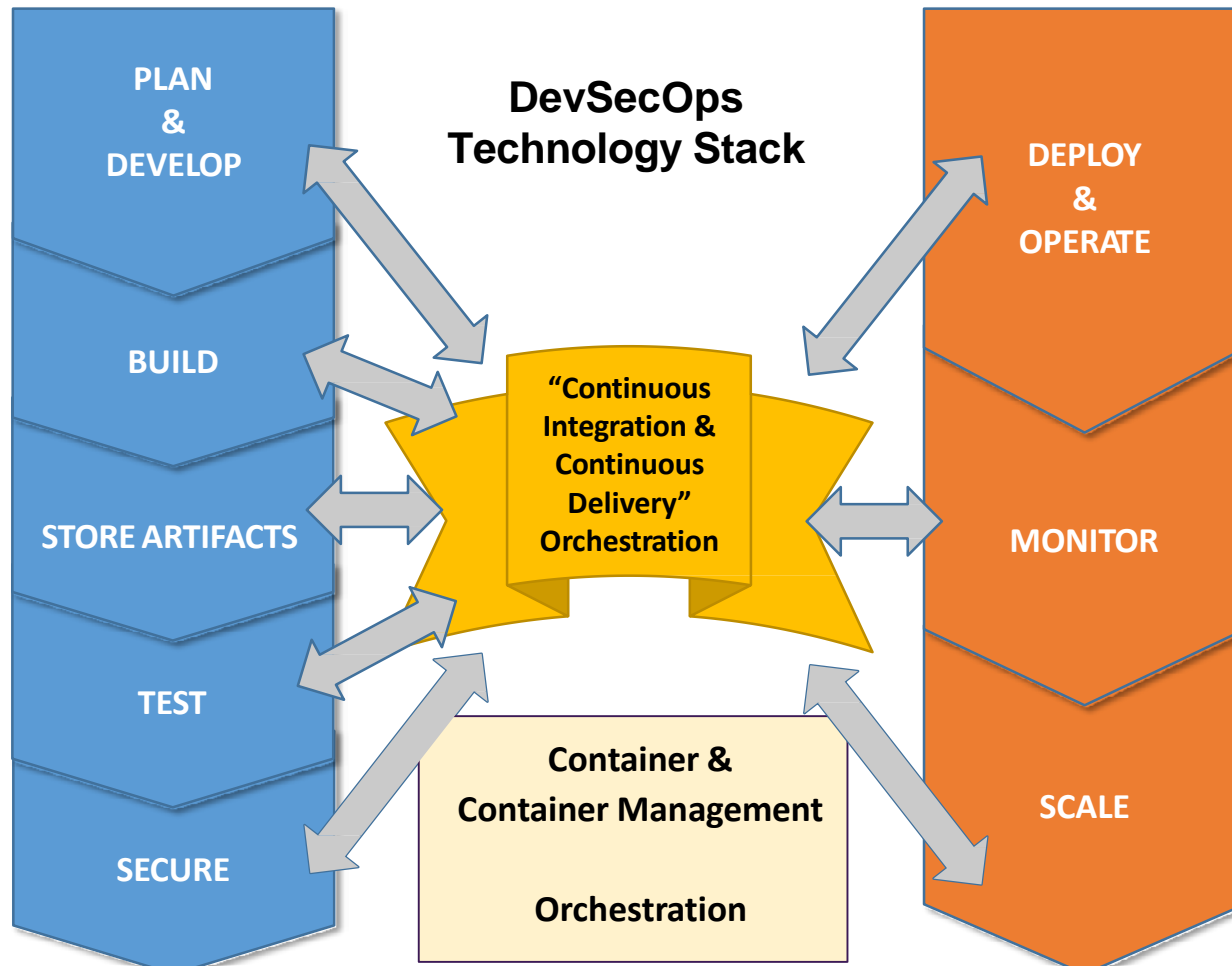


Will Provide to Dev Teams:

- **Agile Processes**
- **Access to Ops**
- **Distributed Common Dev Environment accessible from any location**
- **Cloud-native Development Platform**
- **Tools to Develop or Bring Your Own Code**
- **CI/CD Pipeline w/ Continuous Approval To Operate (ATO)**



Factory Assembly Line (CI/CD Pipeline)



**Enables automated Authorization To Operate process
for rapid deployment and scalability**



Open Discussion / Questions



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