



CDG

Capabilities Development Group

Guy Walsh - ITEA Panel 3 16 March 2016

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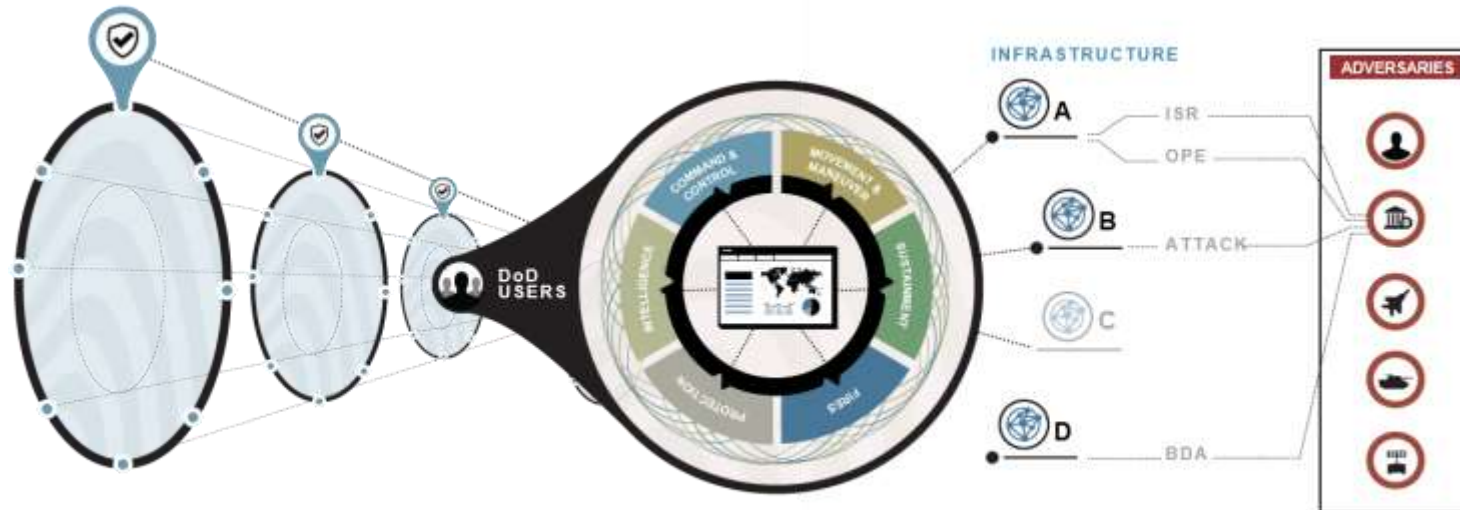
CDG Mission and Vision

MISSION

The Capabilities Development Group coordinates and integrates USCYBERCOM's prioritized cyberspace capability development and information technology efforts to *rapidly* deliver *joint* operational products and services required for generating, facilitating, or monitoring effects in and through cyberspace.

VISION

Through a blend of technical and operational expertise, the CDG unifies existing and evolving technology in support of full spectrum cyber operations by defining and enforcing interoperability standards for internal acquisition and development, while influencing that of external partners. Ultimately, the CDG contributes *useable* capabilities to an integrated cyber operations environment to enable Command and Cyber Mission Force mission accomplishment.

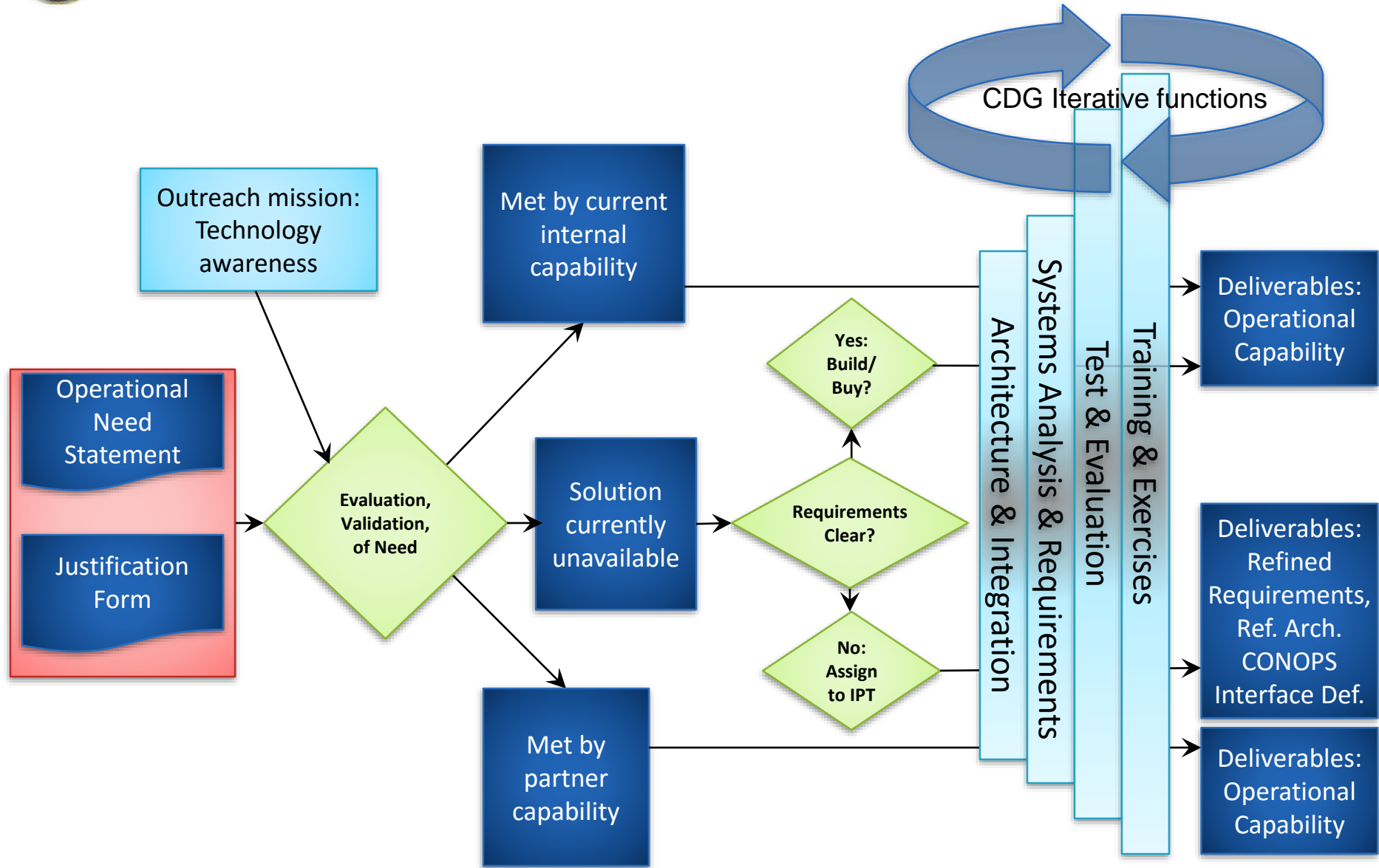




Capability Development Strategy

- The CDG maintains awareness of the cyber technical state-of-the-art through **outreach**.
- The CDG **defines standards** for interfaces and protocols that support interoperability of independently developed capabilities.
- The CDG **owns and operates** the Command's technical baseline.
- The CDG **enforces standards** for command internal development and for external development of inherently Joint cyber capabilities as the acquisition Milestone Decision Authority.
- The CDG realizes capabilities in one of three ways:
 1. Tailor an existing inherent capability according to mission needs.
 2. Leverage a partner capability through outreach.
 3. Build or buy a new capability:
 - Agile: rapidly purchase through acquisition authority or develop through internal DevOps assets
 - Deliberate: establish an **Integrated Project Team** of subject matter experts to advise the acquisition executive and enforce joint interoperability standards
 - Handoff development to a Program Office if funding, requirements, and technical artifacts exist in sufficient detail
 - Execute a proof of concept to refine requirements, technical artifacts and operational concepts if detail is lacking or problem space is ill-defined or immature

Capability Development Model





IPT Task Organization

- The CDG maintains enduring Mission Areas for OCO, DCO, and C2/SA.
- IPTs are established within a Mission Area on an as-needed basis.
- IPTs consist of a project lead, project manager, architect, and matrixed personnel from across the J-Dirs and community to serve as subject matter experts.
- IPTs may be reinforced with contracted support as necessary.
- The project lead is the principal advocate and is derived from the appropriate organization.
- IPTs have a clear scope with defined deliverables upon formation (e.g. CONOPS, reference architecture, refined requirements, etc.)
- IPTs remain in-tact until artifacts are delivered; IPTs may be required to provide further technical support for acquisition milestone decisions