Joint Capabilities and Integration Development System
Capability Production Document

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CPD (Inputs and Outputs)

- JOpsC and CONOPS
- Critical Design Review
- System Threat Assessment
- ISP
- AoA Report
- Complete Automated Standards Profile
- ICD
- CDD
- DoD Enterprise Architecture and solution architecture
- Military Utility Assessment/Joint Capability Technology Demonstration

Capability Production Document

- Acquisition Strategy for Milestone C
- APB for Milestone C
- DD Form 1494
- Cost Analysis Requirements Description
- TEMP
- ISP
- Systems Engineering Plan
- Manpower Estimate

CPD Overview

CPD informed by lessons learned in development process.

KPP values may change from CDD to CPD.

JROC ensures traceability from ICD.

JROC determines acceptability of system if it fails to meet KPP threshold values.

CPD guided by DoD Enterprise Architecture.

Must include DOTMLPF issues.

CPD Contents

- Capability Discussion
- Analysis Summary
- Concept of Operations Summary
- Threat Summary
- Program Summary
- System Capabilities Required for Increment(s)
- FOS & SOS Synchronization
- IT & NSS Supportability
- Intelligence Supportability

- E3 and Spectrum Supportability
- Technology Readiness Assessment
- Assets Required to Achieve **_Full_** Operational Capability
- Schedule and IOC and FOC Definitions
- Other DOTMLPF and Policy Considerations
- Other System Attributes
- Program Affordability

HSI in Navy CPDs

SECNAV Instruction 2000.2D:

- Reflects DoD guidance on CDDs.
- No specific guidance for HSI in CDD.
- Authorization to develop CDD at Gate 2.
- Authorization to submit CDD to JROC at Gate 3
- CNO (N8) or higher approves CDDs.

Conducted to approve CPD

HSI in Navy CPDs

"HSI considerations must be integrated into CDD/CPD system performance parameters and system characteristics to enhance mission performance of fielded systems."

(OPNAVINST 5310.23 DRAFT)

Instruction defines:

- Cognitive workload
- Physical workload
- Temporal workload
- Workload

Describes HSI input to each section of the CDD/CPD.

MANPRINT in Army CPDs

"This is one of the most important documents that is used to develop the system. MANPRINT requirements or KPPs must be included in this document to ensure that the human element is considered in system design, test, and evaluation."
US Army MANPRINT Handbook

MANPRINT requirements must be in CPDs and KPPs.

CPD begins with CDD.

MANPRINT reps need to participate in CPD ICD

HSI in USAF CPDs

711th Human Systems Integration Development Guide

- Overview of topics to be addressed in capabilities documents.
- Suggests contributions to each section of CPD.
- Gives examples of HSI language.
- Describes domains and relevant issues.