



Joint Test and Evaluation Methodology (JTEM) JT&E Overview

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Overview



- Mission
- Capability Test Methodology
- Test Products



Mission

JTEM will develop and evaluate methods and processes used to conduct testing in a realistic joint mission environment across the acquisition life cycle to improve the program manager's ability to deliver joint capabilities to the warfighter.



JTEM Capability Test Methodology (CTM)



5 Steps
11 JTEM
Processes

1. Characterize Test

Program Introduction Document (PID)

Statement Of Capabilities (SOC)

- Develop Test Concept
- Develop Joint Operational Context for Test
- Develop Evaluation Strategy
- Technical Assessment

2. Plan Test

- Develop Test Design
- Perform LVC Distributed Environment Analysis
- Develop Test Plan

3. Implement LVC* Distributed Env.

- Design LVC Distributed Environment Configuration
- Integrate LVC Distributed Env

4. Execute Test

5. Evaluate Test

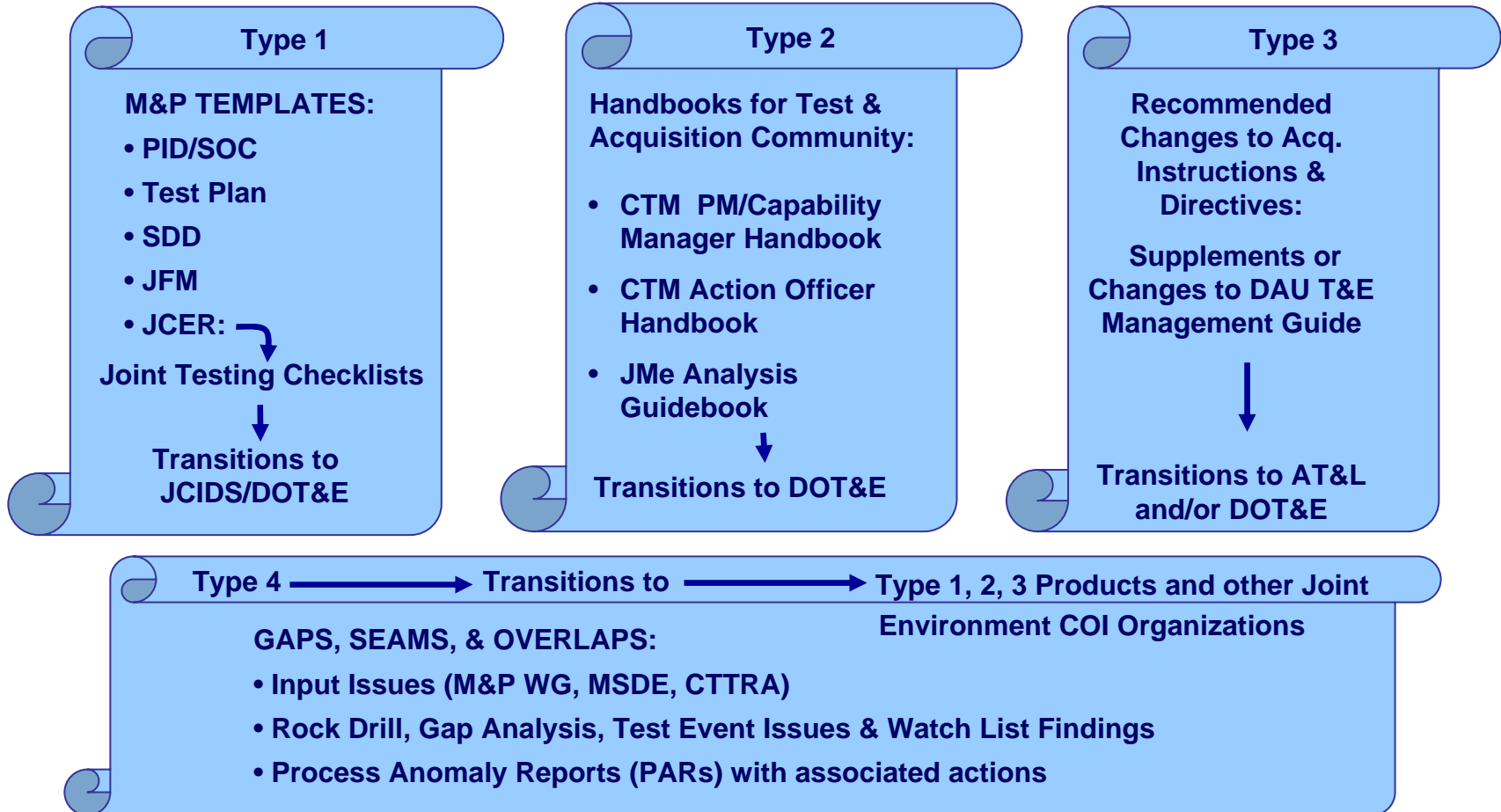
- Analyze Data
- Evaluate SoS Performance & Joint Mission Effectiveness



- Validated by M&P Working Group Nov 05
- Updated by JTEM Mar 06



JTEM Products and Transition Strategy



M&P WG - Methods and Processes Working Group
PID - Program Introduction Document
SOC - Statement of Capability
JMe - Joint Mission Effectiveness

CTTRA - Common Test & Training Range Architecture
JFM - Joint Mission Environment Foundation Model
SDD - System Design Document
CTM - Capability Test Methodology

MSDE - Multi-Service Distributed Event
JME - Joint Mission Environment
JCER - Joint Capabilities Evaluation Report
COI - Community of Interest



BACKUPS



Background: JTEM Problem Statement



Processes and methods for designing and executing tests of system of systems in the joint mission environment are not well defined or understood. Nor is there a clear understanding of how to assess system performance as it pertains to capabilities supporting joint missions.

Overall Goal: Recommended Best Practices for a consistent approach to describing, building, and using an appropriate representation of a particular Joint Mission Environment across the acquisition lifecycle.



Background: JTEM Mission and Objectives



- **Mission:** JTEM will develop and evaluate methods and processes used to conduct testing in a realistic joint mission environment across the acquisition life cycle to improve the program manager's ability to deliver joint capabilities to the warfighter.
- **Objectives:**
 - Demonstrate the CTM's ability to:
 - Establish a joint mission environment suitable for testing
 - Test and evaluate system/system of system (SoS) capabilities in realistic joint mission environments
 - Assess system/SoS contributions to joint mission effectiveness
 - Create an approach to institutionalize testing in a joint mission environment

As we move force structure, doctrine and acquisition toward being born joint, we need to ... test using the joint mission environments in which we expect the weapons and systems to operate.