

# Joint Planning and Execution System (JPES)



The Joint Planning and Execution System (JPES) program continues agile software development to replace the legacy Joint Operation Planning and Execution System (JOPES) program in FY24. In July 2023, the Joint Interoperability Test Command (JITC) conducted an early operational assessment (EOA) of JPES which provided users an opportunity to provide feedback on the effectiveness and usability of completed portions of the software development.

## SYSTEM DESCRIPTION

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JPES will provide the Joint Planning and Execution Community with a web-based application on SIPRNet to create, edit, schedule, store, and query time-phased force deployment data (TPFDD) in support of joint contingency, crisis-action, and exercise planning. JPES is using an agile software development and test approach.

The JPES Program Management Office (PMO) is continuing sustainment of the JOPES v4.5.x until JPES can be deployed to all JOPES users. Once JPES provides current JOPES capabilities, JOPES is expected to be retired in FY24.

## MISSION

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JPES enables joint commanders to accomplish joint contingency, crisis-action, and exercise planning by:

- Linking the National Command Authority to the Joint Task Force, component commanders, and Service-unique systems at lower levels of command.
- Translating policy decisions into operational plans that meet U.S. requirements to employ military forces.
- Supporting force deployment and redeployment.
- Conducting contingency and crisis action planning.

The Joint Planning and Execution Community uses the JPES portfolio to plan and execute military operations and exercises world-wide. This includes the capability to develop, refine, and maintain TPFDDs, enable the identification and management of force requirements and track the sourcing of those force requirements in accordance with the global force management and joint planning processes. The JPES Portfolio provides data to and consumes data from the applicable external systems used by the U.S. Armed Forces and supported/supporting combatant commands, as well as their respective subordinate organizations.

## PROGRAM

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JPES is an Acquisition Category III program. The JPES PMO intends to continue development and conduct user assessments to ensure all necessary functionality meets or exceeds that of JOPES, which JPES is replacing. The JPES PMO is implementing the development, security, and operations process as part of its agile software development framework.

### » MAJOR CONTRACTORS

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- InterImage Inc. – Arlington, Virginia
- ERP International, LLC – Laurel, Maryland
- NextGen Federal Systems – Morgantown, West Virginia
- CompQsoft – Leesburg, Virginia

## TEST ADEQUACY

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In FY23, JITC conducted an EOA of JPES on the SIPRNet, in accordance with DOT&E guidance. The JPES integrated test environment on the NIPRNet does not currently capture the mission configurations associated with each combatant command and other critical sites. The JPES PMO plans quarterly operational assessments with an IOT&E in 4QFY24 but has not yet submitted a Test and Evaluation Master Plan (TEMP) for DOT&E approval.

JPES test strategies need to be developed to encompass the agile nature and varying operational site requirements and inform the TEMP and the Agile Operational Master Test Plan (AOMTP). The JPES TEMP should detail operational cyber survivability tests that include a cooperative vulnerability and penetration assessment (CVPA) followed by an adversarial assessment (AA).

## PERFORMANCE

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### » EFFECTIVENESS AND SUITABILITY

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JITC assessed the operational users' feedback from the EOA. DOT&E will consider this data in the IOT&E report, expected to be released in FY25.

### » SURVIVABILITY

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No operational survivability testing of JPES has yet been conducted.

## RECOMMENDATIONS

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DISA should:

1. Improve the operational representativeness of the JPES integrated test environment to ensure testing more closely reflects the diversity of deployment configurations.
2. Submit a JPES TEMP and an AOMTP to DOT&E for approval.
3. Conduct a CVPA and an AA prior to the operational fielding of JPES.