



OPERATIONAL TEST
AND EVALUATION

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JAN 19 2017

MEMORANDUM FOR USERS OF THE DIRECTOR, OPERATIONAL TEST AND
EVALUATION (DOT&E) TEST AND EVALUATION MASTER
PLAN (TEMP) GUIDEBOOK

SUBJECT: DOT&E TEMP Guidebook 3.1

DOT&E TEMP Guidebook 3.1 updates the Design of Experiments (DOE), Scientific Test and Analysis Techniques (STAT), Mission-focused Metrics, Operational Evaluation Framework (OEF), Modeling and Simulation (M&S) for Test and Evaluation, Defense Business Systems, Cybersecurity, and Software-Intensive Systems sections of the DOT&E TEMP Guidebook 3.0. Version 3.1 also contains a new Survey Design guidance section consistent with the 6 January 2017 DOT&E Survey Pre-testing and Administration memo.

The DOE and STAT sections now highlight the importance of justifying resources, especially long-lead items, using experimental design techniques at Milestone A and in TEMPs supporting Requests for Proposals. The Mission-focused Metrics section was renamed Quantitative Mission-focused Measures. The terms “metrics,” “measures,” and “response variables” have been used interchangeably in the Mission-focused Metrics, DOE, and STAT sections – which has led to some confusion among readers. Thus where it makes sense, we replaced the terms “metrics” and “response variables” with “measures.” We added the term “quantitative” to Mission-focused Measures to highlight the importance of evaluating systems with quantitative measures as opposed to qualitative measures.

The cybersecurity guidance includes a statement reminding readers that a Cooperative Vulnerability and Penetration Assessment and Adversarial Assessment are normally required as part of an operational test or assessment supporting a fielding decision. The command and control cybersecurity example now contains a detailed table describing cyber defenders’ roles and responsibilities.

Minor content updates were made in the Software-intensive Systems section to align the discussion with Department of Defense Instruction (DoDI) 5000.02 as compared to the interim DODI 5000.02.

That STAT and Defense Business Systems sections now include DOT&E survey content expectations in TEMPs, along with dedicated survey guidance. The Defense Business Systems section also now discusses the importance of describing software change requests when explaining the defect tracking process.

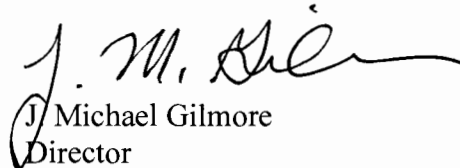
The measures of merit discussion in the OEF guidance was incorporated into the STAT section.



The M&S section was updated to reflect the 14 March 2016 and 17 January 2017 DOT&E guidance memoranda on the validation of M&S used in operational test and live fire assessments.

Program Managers will use the TEMP as the primary planning and management tool for all test activities starting at Milestone A. Program Managers will prepare and update the TEMP as needed and to support acquisition milestones or decision points. The TEMP should be specific to the program and tailored to meet program needs. Accordingly, the guidance in this guidebook, in DoDI 5000.02, and in the TEMP format are provided to assist in developing the appropriate TEMP format and content for each program. Strict or immediate adherence to the new TEMP format is not required. Use common sense to apply the guidance to fit your program. Evaluation of TEMP adequacy is based on the TEMP's content, not the format.

Questions or suggestions about this guidebook should be addressed to Dr. Catherine Warner, catherine.w.warner.civ@mail.mil, 703-697-3655.



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Director