

[DTE2] Non-Traditional BAA Submission

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Reference

DIDO Solutions, Inc. *Testing and Validation of Distributed Systems Using DIDO-TE*. Non-Traditional submission under Broad Agency Announcement HQ0034-SCO-24-BAA-0001. Submitted 8 January 2025.

Bibliographic Information

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Document Scope

This submission describes an Interoperability Testing Infrastructure based on DIDO-TE concepts. It proposes a controlled environment for testing distributed systems composed of different hardware, software, and component versions.

The submission addresses:

- Virtual twins of distributed-system nodes
- Controlled initial states
- Mixed component and software versions
- Interoperability testing
- Pre-deployment and post-deployment testing
- Hostile-agent and adversarial-condition simulations
- Phased deployment and system modernisation
- Scenario-based testing
- System resilience and adaptability
- Coalition and cross-platform interoperability

- Testing in degraded or contested communications environments
- Collection of performance results and operational metrics
- Catalogues of reusable virtual twins
- Prototype development, demonstration, and transition

Relevance to DIDO-TE

This reference documents a proposed application of DIDO-TE to Department of Defense interoperability testing and validation.

It provides source material for DIDO-TE concepts associated with:

- Test Environment Configuration
- Nodes and Deployment Targets
- Twin Nodes
- Virtual Networks and Communication
- State Control
- Test Definition
- Test Execution
- Baselines and Comparison
- Validation

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