

# [DTE3] Broad Agency Announcement White Paper

[Go to Annex B: References](#)

## Reference

DIDO Solutions, Inc. *Interoperability Testing Infrastructure*. Draft white paper prepared in response to Broad Agency Announcement HQ0034-SCO-24-BAA-0001, Office of the Secretary of Defense, Strategic Capabilities Office. Undated.

## Bibliographic Information

| Attribute                | Value                                                             |
|--------------------------|-------------------------------------------------------------------|
| Reference Identifier     | [DTE3]                                                            |
| Cover Title              | DIDO Solutions White Paper                                        |
| Proposed Concept         | Interoperability Testing Infrastructure                           |
| Document Type            | Draft BAA white paper                                             |
| BAA Number               | HQ0034-SCO-24-BAA-0001                                            |
| BAA Issuing Organisation | Office of the Secretary of Defense, Strategic Capabilities Office |
| BAA Issue Date           | 23 August 2024                                                    |
| Preparing Organisation   | DIDO Solutions, Inc.                                              |
| Primary Category         | Non-Traditional Defense Technologies                              |
| Submission Date          | Not specified                                                     |
| Control Number           | Not specified                                                     |
| Document Status          | Draft                                                             |
| Number of Pages          | 25 PDF pages, including BAA instructions and evaluation criteria  |
| Rough Order of Magnitude | USD 8,500,000                                                     |
| Proposed Phase I         | 6-12 months                                                       |
| Proposed Phase II        | 12-18 months                                                      |

## Document Scope

This white paper develops a proposed Interoperability Testing Infrastructure for evaluating distributed systems in controlled virtual environments.

The document combines:

- Extracted BAA requirements and evaluation criteria
- An executive summary of the proposed concept
- A two-phase technical approach
- Proposed Department of Defense use cases
- Intellectual-property assertions

- A capabilities and management plan
- A cost estimate
- A notional development and demonstration schedule

The proposed technical approach addresses:

- Virtual twins of distributed-system nodes
- Controlled initial states
- Mixed hardware and software versions
- Legacy and next-generation system interoperability
- Scenario-based testing
- Hostile-agent and adversarial-condition simulation
- Phased system modernisation
- Testing in degraded or contested environments
- Coalition interoperability
- Digital Twin Libraries
- Performance metrics and simulation reports
- Prototype development and field demonstration

## Relevance to DIDO-TE

This reference develops DIDO-TE concepts within a proposed Department of Defense Interoperability Testing Infrastructure.

It provides source material associated with:

- Test Environment Configuration
- Nodes and Deployment Targets
- Twin Nodes
- Virtual Networks and Communication
- State and Time Control
- Test Definition
- Test Execution
- Baselines and Comparison
- Validation
- Monitoring and Evidence
- Catalogues and Reuse
- Security and resilience testing
- Interoperability assessment
- Prototype development and demonstration

The white paper provides conceptual provenance and records a proposed application of DIDO-TE. It does not establish normative DIDO-TE requirements. Annex C must derive, normalise, trace, and approve each requirement separately.

## Citation Use

DIDO-TE pages cite this reference using:

[\[DTE3\]](#)

When citing a specific passage, identify the applicable section, subsection, table, or PDF page. For example:

```
[[dido:03-dido-te:99-annexes:annex-b-references:dte-003|[DTE3]]], Section 1.1, Submitted Concept and Novelty.
```

or:

```
[[dido:03-dido-te:99-annexes:annex-b-references:dte-003|[DTE3]]], Section 2.1.1, Key Tasks.
```

or:

```
[[dido:03-dido-te:99-annexes:annex-b-references:dte-003|[DTE3]]], Section 5.1, Rough Order of Magnitude for Cost and Price.
```

## Relationship to Other References

[DTE3] expands the DIDO-TE concept into a proposed technical approach, management plan, cost estimate, and development schedule.

See:

- [\[DTE1\] U.S. Patent Application US20220237111A1](#)
- [\[DTE2\] Non-Traditional BAA Submission](#)

[DTE1] documents the underlying patented subject matter. [DTE2] records the completed non-traditional submission. [DTE3] contains the more extensive draft white-paper treatment of the proposed Interoperability Testing Infrastructure.

Cite the source that directly supports the applicable statement or requirement derivation.

## Status

This document appears to be a draft white paper.

The cover does not identify:

- A control number
- A submission date
- The lead submitting company

- Team members
- Contact information
- A ROM cost

Section 5.1 identifies a total estimated cost of USD 8,500,000. The document does not establish whether this draft was submitted in its present form.

The document contains the identifier HY0233-SC0-24-BAA-0001 on its second PDF page. The cover and related submission identify the applicable BAA as HQ0034-SC0-24-BAA-0001. Treat HY0233-SC0-24-BAA-0001 as an apparent transcription error unless a controlling source establishes otherwise.

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## Notes for Editors

Preserve `[DTE3]` and this page namespace as stable citation identifiers.

Describe this document as a draft white paper rather than a completed or accepted submission.

Do not infer a submission date, control number, or government acceptance from the document.

When deriving a DIDO-TE requirement from this source, identify the precise section, subsection, table, or PDF page in the requirement's `Derived From` section.

Distinguish BAA instructions and evaluation criteria from content authored as part of the proposed solution.

Distinguish proposed capabilities, estimated benefits, projected performance improvements, schedules, costs, and deliverables from established facts and normative requirements.

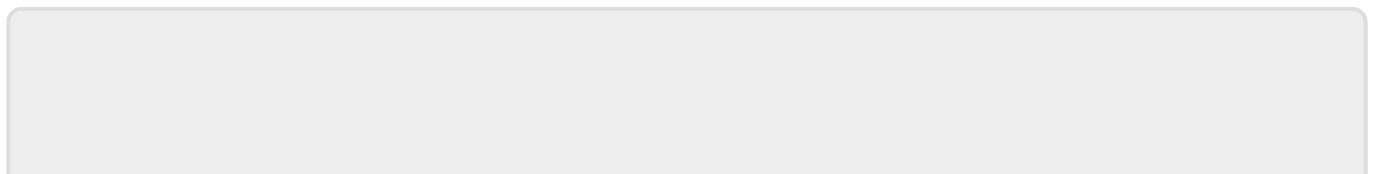
Do not treat the projected percentages in Section 1.2 as verified performance results unless supporting evidence establishes their measurement basis.

Preserve the apparent BAA-number discrepancy as a documented source issue. Do not silently reproduce the inconsistent identifier in DIDO-TE requirements.

Do not place personal contact information from any completed submission on this public reference page.

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