MISSION SYSTEMS. INSPECTABLE WORK.

Mission support. Made tangible.

Three interactive applications for the work behind readiness.

A maintenance blocker. An inventory discrepancy. A record that cannot be released. Explore how clear interfaces turn each into a visible decision, a defined next step and an inspectable record.

PROJECT WORK SAMPLE RECORDS PUBLIC WALKTHROUGHS

THREE WAYS TO INSPECT THE WORK

01 **Equipment readiness**
See the blocker. Record the decision.
From an inspection gate to a reviewer release.

Proof to inspect
State rules
Evidence capture
Activity record

02 **Supply accountability**
Every item. Every handoff.
From a count difference to a reviewed reconciliation.

Proof to inspect
Quantity validation
Review gate
Exportable ledger

03 **Data exchange sandbox**
Make every validation decision inspectable.
From a field-level finding to a permitted simulated release.

Proof to inspect
Validation findings
Policy explanation
Decision history

What this work can show

Workflow design, responsive application interfaces, constrained inputs, explicit state transitions, actionable validation and downloadable records. Each scenario can be reset and explored again.

How to evaluate it

Start with the seeded scenario. Try an invalid action. Complete the permitted path. Compare the screen with the export. Reset. The following pages give a concrete walkthrough for each application.

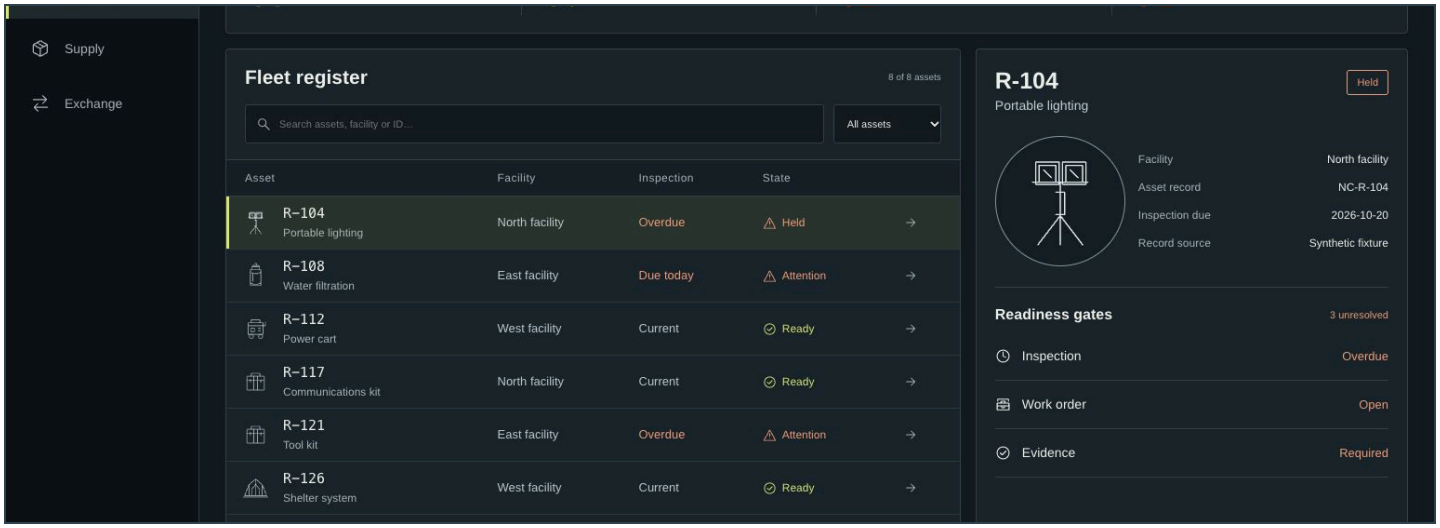
Evaluation status: workflow, export, reset and responsive checks passed on October 28, 2026.
Use the public walkthroughs to inspect interfaces, validation and exported records. Example data keeps operational records private. Official sources supply context, not endorsement.

EQUIPMENT READINESS

See the blocker. Record the decision.

Make the path from maintenance evidence to release visible.

Application route: /labs/portfolio/readiness LOCAL SIMULATION



Application detail · R-104 portable lighting is the starting selection. All assets and records are synthetic.

8
SYNTHETIC FACILITY ASSETS

5 / 2 / 1
READY / ATTENTION / HELD

3 gates
INSPECTION / WORK / EVIDENCE

The design question

Can a coordinator explain an equipment status and identify the next permitted action without switching between disconnected records?

- Selectable assets with search and filters.
- Generic inspection evidence and work-order closure.
- Reviewer release, activity history and JSON export.

Walk through the decision

01 Reset. Inspect R-104 and name its visible blockers.

02 Attempt release early. Inspect the reason it cannot proceed.

03 Record inspection evidence, close the blocking work order, then record the reviewer release.

04 Compare the asset, counts and activity with the JSON export. Reset the scenario.

WHAT TO VERIFY

CHECK	ACCEPTANCE CRITERION
Gated release	Incomplete required work cannot produce a released state; blank required evidence is rejected.
Coherent records	Summary counts, selected detail and exported state agree; each accepted action is visible in activity.
Repeatable scenario	Reset restores the initial records, gates and counts without retaining the previous run's actions.

Scope boundary. Ordinary facility assets and generic procedures. No diagnostics, predictive maintenance, medical-device instructions, live telemetry or real release authority. Reviewer actions are simulated, not authenticated maintenance records.

Official context. Army reporting describes maintenance accuracy and equipment reliability as important to readiness. This concept applies a general workflow pattern; it does not implement an Army program. Army maintenance report · February 9, 2026 ↗

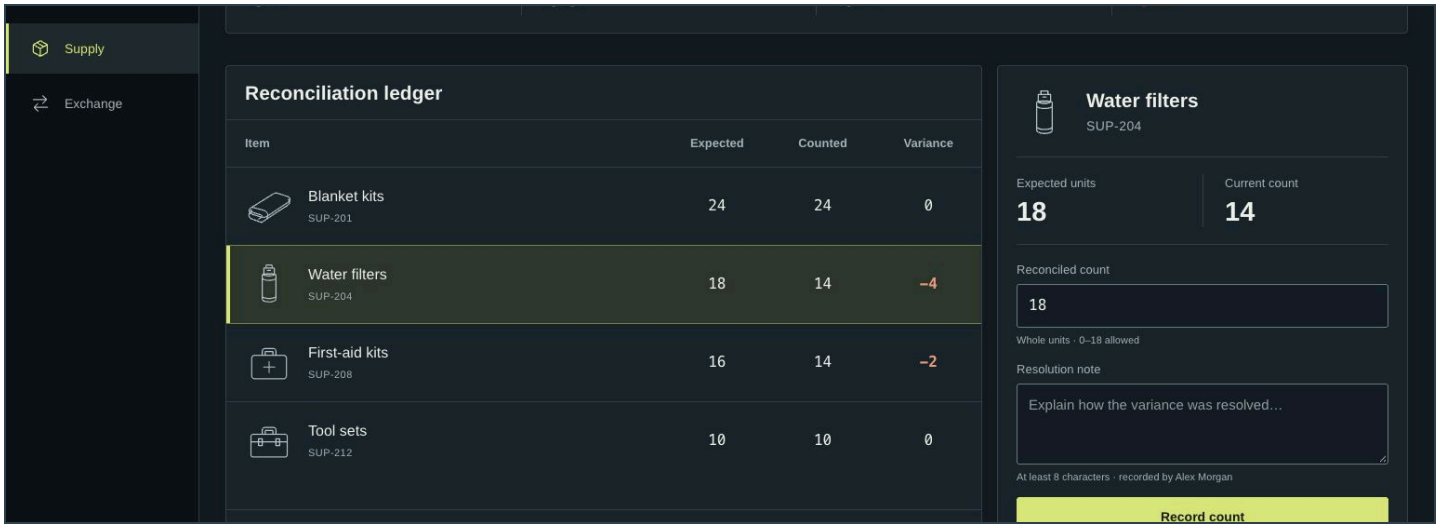
SUPPLY ACCOUNTABILITY

Every item. Every handoff.

Keep a discrepancy, its explanation and its review connected.

Application route: /labs/portfolio/supply

LOCAL SIMULATION



Application detail · Water filters are the starting selection. Quantities, reviewers and handoffs are synthetic.

4
SYNTHETIC SUPPLY LINES

68 / 62
EXPECTED / COUNTED

2
INITIAL DISCREPANCIES

The design question

Can a coordinator reconcile a count without losing the reason for the change or bypassing the review before handoff?

- Expected and counted quantities kept visible.
- Bounded input with a required reconciliation reason.
- Simulated second-person review and ledger export.

Walk through the decision

01 Reset. Find the two discrepancies and inspect the water-filter line.

02 Try an invalid or over-expected count, then a blank reason. Inspect the validation.

03 Resolve both discrepancies. Attempt handoff before review, then complete review and handoff.

04 Compare the ledger and decision sequence with the JSON export. Reset.

WHAT TO VERIFY

CHECK	ACCEPTANCE CRITERION
Valid quantities	Only whole counts from zero through the line's expected quantity are accepted in this scenario.
Reviewed handoff	Resolve all discrepancies with reasons, then review before handoff. Changed counts invalidate the review.
Ledger integrity	Line quantities sum to the displayed and exported totals; reset restores 68 expected and 62 counted.

Scope boundary. No physical scans, live stock system, transport routing or actual custody transfer. A simulated reviewer is not identity verification or segregation-of-duties enforcement. Over-counts are intentionally blocked; a production overage policy requires agreement.

Official context. The Army describes digital inventory and inspection workflows in its supply-chain application reporting. This independent concept does not connect to ParaLine, CheckMate, GCSS-Army or LMP. Army application preview · March 31, 2026 ↗

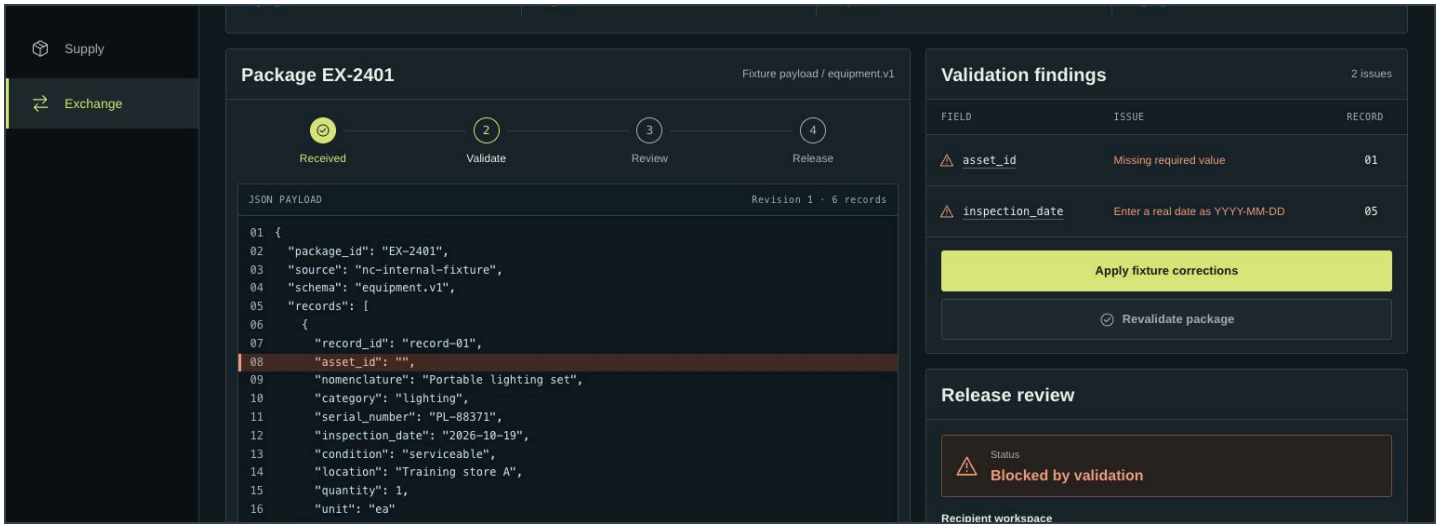
DATA EXCHANGE SANDBOX

Make every validation decision inspectable.

Expose the finding, the correction and the release decision.

Application route: /labs/portfolio/exchange

POLICY SIMULATED LOCALLY



Application detail · Six administrative equipment records. No real files are uploaded or transmitted.

6
SYNTHETIC EQUIPMENT RECORDS

4 / 2
ACCEPTED / QUARANTINED

0
INITIALLY RELEASED

The design question

Can a reviewer see precisely why a record failed and what rule permits or blocks its release, without treating validation as a black box?

- Payload inspection and field-specific findings.
- Fixture correction, revalidation and explicit review.
- Simulated recipient policy and decision-event export.

Walk through the decision

01 Reset. Inspect a quarantined record and its exact field-level finding.

02 Attempt release before eligibility. Correct both fixture errors and revalidate the package.

03 Try a denied recipient, then review and release to a permitted simulated recipient.

04 Compare records, findings and events with the export. Reset to the original scenario.

WHAT TO VERIFY

CHECK	ACCEPTANCE CRITERION
Useful validation	Invalid records identify the affected field and a correction; accepted does not automatically mean released.
Explicit gates	A package with findings, stale validation or no applicable review cannot release; a denied recipient remains blocked.
Inspectable state	The export matches records, findings and events; reset restores four accepted, two quarantined, zero released.

Scope boundary. Local policy and reviewer simulation only. No authentication, access enforcement, secure transfer, clinical exchange or HL7/FHIR implementation is demonstrated. The export is not immutable audit evidence. No security or compliance certification is claimed.

Procurement reference. DHA opportunity notice on SAM.gov ↗ is supplied context only. Its requirements are not assessed here. No clinical integration, compliance, endorsement or award is implied.