

User Acceptance Testing (UAT) Scenarios

UAT in this project is defined as business validation of enhanced IMS behavior against approved TO-BE processes, ensuring operational readiness before implementation.

How to read this section

Each UAT scenario includes:

1. UAT ID
2. Business Requirement (BR)
3. Functional Requirement (FR)
4. Mapped User Stories
5. Scenario Description
6. Expected Outcome (Acceptance at Business Level)
 - These are business-facing UAT scenarios, not technical test cases
 - Detailed step-by-step test cases would come later (QA phase)

Inbound – UAT Scenarios

UAT-IN-01: ASN-Based Receiving Validation

- BR: BR-05 – Improve Inbound Receiving Accuracy
- FR: FR-01 – ASN Validation Capability
- User Stories: US-IN-01, US-IN-02
- Scenario: When a shipment arrives at the dock, the warehouse associate scans the ASN and records received quantities.
- Expected Outcome:
 - Received quantities are validated against ASN
 - Variances beyond tolerance are detected immediately
 - Receiving proceeds without manual reconciliation

UAT-IN-02: Inbound Discrepancy Detection & Escalation

- BR: BR-05, BR-08
- FR: FR-02 – Receiving Exception Management
- User Stories: US-IN-04, US-IN-05
- Scenario: When received quantities or quality deviate beyond tolerance, the system generates an inbound exception.
- Expected Outcome:

- Exception is automatically logged
- Supervisor is notified for review
- No inventory is updated until approval

UAT-IN-03: Automated Inventory Update After Receiving

- BR: BR-01, BR-06, BR-12
- FR: FR-03 – Automated Inventory Update Post-Receiving
- User Stories: US-IN-07, US-IN-08
- Scenario: After receiving is validated and approved, the system updates inventory records.
- Expected Outcome:
 - QOH updates automatically
 - ATP recalculates without manual intervention
 - Inventory reflects a single source of truth

Putaway – UAT Scenarios

UAT-PU-01: System-Directed Putaway Execution

- BR: BR-02
- FR: FR-04 – System-Directed Putaway
- User Stories: US-PU-01
- Scenario: After receiving, the system assigns putaway locations based on rules (category, FEFO, velocity).
- Expected Outcome:
 - Associate receives system-recommended location
 - Manual slot selection is eliminated
 - Storage consistency improves

UAT-PU-02: Putaway Validation & Movement Logging

- BR: BR-01
- FR: FR-05 – Putaway Confirmation & Validation
- User Stories: US-PU-02, US-PU-03
- Scenario: Associate scans SKU and target location during putaway.
- Expected Outcome:
 - System validates SKU-location match
 - Incorrect placements are blocked
 - Putaway movement is logged automatically

UAT-PU-03: Automated Inventory Update After Putaway

- BR: BR-01, BR-12
- FR: FR-06 – Automated Inventory Synchronization
- User Stories: US-PU-06
- Scenario: Once putaway is validated, inventory becomes available for downstream processes.
- Expected Outcome:
 - QOH and ATP update in real time
 - Picking and replenishment reflect updated stock
 - No delayed sync issues

UAT-PU-04: Putaway Exception Handling

- BR: BR-04, BR-08
- FR: FR-11 – Variance Resolution Workflow
- User Stories: US-PU-05
- Scenario: If putaway validation fails, an exception is generated.
- Expected Outcome:
 - Supervisor reviews only genuine exceptions
 - Resolution is logged with audit trail
 - Normal putaways bypass supervisor

Cycle Counting – UAT Scenarios

UAT-CC-01: System-Directed Cycle Count Generation

- BR: BR-07
- FR: FR-09 – System-Directed Cycle Counting
- User Stories: US-CC-01
- Scenario: System runs scheduled or risk-based cycle count jobs.
- Expected Outcome:
 - High-risk SKUs are prioritized
 - Counts are consistent across FCs
 - Ad-hoc/manual counting is eliminated

UAT-CC-02: Real-Time Count Validation

- BR: BR-01
- FR: FR-10 – Real-Time Count Validation
- User Stories: US-CC-03

- Scenario: Associate submits cycle count quantity.
- Expected Outcome:
 - System validates count instantly
 - Minor variances auto-adjust
 - No batch reconciliation delays

UAT-CC-03: Supervisor Review for High Variances

- BR: BR-08
- FR: FR-11 – Variance Resolution Workflow
- User Stories: US-CC-04, US-CC-05
- Scenario: Count variance exceeds tolerance threshold.
- Expected Outcome:
 - Exception is escalated
 - Supervisor reviews with context
 - Approved adjustment updates inventory

Replenishment – UAT Scenarios

UAT-RP-01: Auto-Triggered Replenishment

- BR: BR-03, BR-09
- FR: FR-07 – Reorder Point Monitoring
- User Stories: US-RP-01
- Scenario: Pick-face stock drops below threshold.
- Expected Outcome:
 - Replenishment task is triggered automatically
 - Pick interruptions are prevented
 - Stockouts reduce

UAT-RP-02: System-Directed Replenishment Execution

- BR: BR-02
- FR: FR-08 – Exception-Based Supervisor Intervention
- User Stories: US-RP-02, US-RP-03
- Scenario: Associate performs replenishment using system-directed tasks.
- Expected Outcome:
 - Correct SKU and locations validated
 - Mis-slotting is prevented
 - Supervisor not involved in normal flow

UAT-RP-03: Replenishment Exception Handling

- BR: BR-04
- FR: FR-11 – Variance Resolution Workflow
- User Stories: US-RP-04, US-RP-05
- Scenario: Replenishment movement mismatch occurs.
- Expected Outcome:
 - Exception generated automatically
 - Supervisor resolves only exceptions
 - Approved adjustments update inventory

Picking & Packing – UAT Scenarios

UAT-OP-01: Pick-Time Inventory Validation

- BR: BR-09
- FR: FR-12 – Pick-Time Inventory Validation
- User Stories: US-OP-02
- Scenario: Picker scans item during picking.
- Expected Outcome:
 - Inventory availability validated
 - Shortages detected early
 - Replenishment triggered if needed

UAT-OP-02: Single Inventory Deduction Enforcement

- BR: BR-10, BR-01
- FR: FR-13 – Single Inventory Deduction Enforcement
- User Stories: US-OP-05
- Scenario: Order is picked and handed off to packing.
- Expected Outcome:
 - Inventory deducted only once
 - No redundant scans required
 - Accurate QOH/ATP maintained