



SERVICE SPECIFICATION / OPERATIONAL SYSTEMS

Inventory workflows

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Receiving, put-away, picking, transfer, count, sale, return, and disposal connect through identifiers, labels, scanners, printers, handhelds, wireless coverage, software transactions, and exception handling.

Intended outcome

A tested process that records the correct item, location, person, quantity, and status and reconciles exceptions to the main inventory record.

Service scope

Inventory technology can use linear or two-dimensional barcodes, labels, mobile computers, fixed scanners, printers, scales, cameras, or RFID. The right method follows item identity, unit level, read distance, throughput, environment, human workflow, data standard, and system integration.

Infrastructure is only one layer. Master data, identifier governance, label quality, transaction design, user roles, reconciliation, and exception ownership determine whether scan events improve inventory truth.

How the system fits together

01 Identify	Item, asset, location, logistics unit, person, lot, serial, status
02 Capture	Barcode, RFID, scanner, printer, handheld, fixed station, camera or scale
03 Transport and transact	Wireless or wired network, mobile app, validation, offline queue, API
04 Record and reconcile	ERP, WMS, POS or other system of record, exceptions, counts, audit

Typical project triggers

- Receiving, transfers, counts, or picks are re-keyed after the physical work
- Labels are unreadable, duplicated, ambiguous, or not tied to a location standard
- Handhelds lose coverage at docks, aisles, coolers, yards, or staging areas
- Software reports an item state that operators cannot reconcile to the floor



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Delivery and acceptance

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The final project scope identifies quantities, locations, dependencies, and the evidence required at each delivery stage.

01 Walk every movement

Observe receiving through disposition, record items, units, locations, roles, identifiers, devices, workarounds, exceptions, latency, and reconciliation points.

Acceptance evidence: Current-state swimlane, critical-event list, identifier and location inventory, exception log, and coverage observations.

02 Design identify, capture, share

Choose identifiers and carrier, label and print process, scan points, device type, wireless, transaction fields, validation, integration, and exception ownership.

Acceptance evidence: Future-state workflow, data dictionary, label samples, device and coverage plan, integration map, and acceptance metrics.

03 Pilot one defined flow

Configure devices, users, printers, labels, transactions, validation, and integration; train a representative group and run controlled inventory.

Acceptance evidence: Pilot labels, scans, system transactions, error samples, training record, and measured exception results.

04 Prove reconciliation

Test normal, damaged label, duplicate, unknown item, wrong location, offline device, delayed sync, return, reversal, count, and recovery paths.

Acceptance evidence: Accepted transaction set, before/after records, exception queue, reconciliation report, device inventory, and operator runbook.

Handover deliverables

- Current- and future-state inventory workflows
- Identifier, label, location, and data standards
- Device, printer, charging, network, and coverage plan
- Pilot and exception acceptance evidence
- Integration mapping, reconciliation method, operator guide, and asset inventory

Closeout: GHT and the customer review the agreed evidence, record unresolved exceptions and owners, and confirm acceptance against the signed project scope.



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Planning and scope boundaries

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Customer and site inputs

- Critical tracking events, physical path, actors, throughput, and exception types
- Item, unit, lot, serial, asset, location, and logistics identifiers
- Label material, print quality, scan distance, environment, and device ergonomics
- Wireless coverage, charging, mobile-device management, offline behavior, and support
- System of record, API or import path, validation, permissions, reconciliation, and retention

Constraints and coordination

- Hardware cannot correct duplicate identifiers, weak master data, unclear ownership, or an undefined transaction
- RFID read performance changes with tag, material, orientation, reader geometry, interference, and local spectrum rules
- Offline workflows require explicit duplicate, conflict, loss, and resynchronization handling
- System integrations depend on available APIs, licenses, data quality, rate limits, and vendor support

Commercial scope and responsibilities

This specification describes the service framework. The signed statement of work defines included equipment, quantities, software licenses, integrations, access windows, schedule, pricing, warranty, and support coverage. Additional construction, electrical work, recurring subscriptions, and ongoing support require an explicit line item.

The customer appoints an acceptance owner and provides authorized access, required site information, and decisions. GHT records assumptions, coordinates assigned work, and submits changes for agreement before expanding the scope.

Technical references

GS1 — [GS1 Barcodes](#) | Source review: 2026-08-20

GS1 — [Global Traceability Standard](#) | Source review: 2026-08-20

GS1 — [How GS1 standards work](#) | Source review: 2026-08-20

[Service guide and project discussion](#) | Source review: 2026-09-06