Requirements Document

8/1/2025

1. **Background:**

   The Natick Soldier Combat Capabilities Developmental Command - Soldier Center (DEVCOM-SC) Fiber Production Branch under the direction of its customer (Other Government Agency (OGA)), requires an Inventory management technology replacing legacy software that goes beyond traditional Warehouse Management System to drive employee engagement and efficiency through the supply chain. Inventory platform which provides real time inventory fulfillment, quality control and traceability. Create a reliable implementation plan to be established as well as accomplished within a 15-week deliverable.

   Requirements

   Specific Specifications:

   Utilize encrypted SQL database for continuity in integrity controls of data at rest

   • Utilize SSL for API secure endpoint

   • Integrate with Army Active Directory two-factor authentication, single sign on, and user access auditing

   • Configurable inactivity timeouts for web console

   • Rapid Deployment

   • Inventory Requests

   • Manufacturing, Assembly, Kitting - combine individual pieces of inventory to create a new item that is tracked.

   • Procurement, Fulfillment Planning - orders being received and inventory acquired to meet that need

   With an established port, Compliance with required DISA STIG setting which in turn, requires SQL servers to hide themselves on the network by using a different port number.

   We currently support the following and expect the application to function in a fully STIG'd environment:

   Windows Server 2019 (soon to be 2022)

Microsoft IIS 10

Microsoft SQL Server 2019

Windows 11 (workstation OS)

1. Require that SQL database can be set up on existing instance

2. With an established port, Compliance with required DISA STIG setting which in turn, requires SQL servers to hide themselves on the network by using a different port number.

1. A browser is not required to be installed on the server.

2. Install IIS. STIG consideration of the following: An “Allow All” is a STIG finding and not allowed. Lists required to generate a Blacklist and Whitelist of extensions and paths allowed as part of an approval to run said extensions.

3. RE: V-218744 Handler Mappings, V-218745 Request Filtering:

4. Management with capability to turn off all Handler mappings and then turn them back on (one by one as required) to determine what is needed (ASPX required). Use windows Auth for SQL if required.

5. SQL server services must be able to run with a Windows Account, Local SQL AUTH not allowed.

Product platform and implementation to include.

1. Base Configuration and Workflows: Receiving and put-away

1. Site transfers

2. Warehouse control processes (cycle counts, inv adj, inv reports, hold management)

3. Picking, Manufacturing, Bill of Materials (BOM)

4. Base labels and documents (Bill Of Lading, packing slip, control reports)

5. Authentication via secure username password

6. Configuration (based on client specific workflows)

7. Training
8. User Acceptance Testing test plan support
9. Go-Live readiness review

End User Requirements

Accounts Feature

- Ability to add/remove user accounts from administrative account.
- Ability to modify permissions and access for accounts from the administrative account.
- Accounts must be password protected.

Item Type Management:

- Add and remove item types
- Customization of data fields (including name, title, size, position, and data character type (both numbers and/or text))

Item Attributes:

- Must support customizable item attributes (name, title, size, position, and data character type (both numbers and/or text))
- Pinable inputs (ability to lock the information provided in a data field and have the software remember the selection for future item use).

User Interface:

- The user interface must have the flexibility to be customized by process action, ensuring that it is adaptable to various workflows.
- Add or remove modes available from main UI screen that restricts actions to adding and removing only. Scanning a bar code brings item information to forefront and reduces number of clicks needed to add or remove software.

Reporting features:

- The system must allow for the customization of data fields for production event reports:
- real-time output (updates at least every second)
- data spot checks, and event tracking capabilities

Inventory Reports:

- Sortable by time ranges, item types, transaction types.
- Output must be compatible with Microsoft office 365 to allow customizable reporting in Excel.
- Transaction reporting:
- undo action feature, and manager/admin controls for monitoring and managing transactions.

Data Import/Export:

- Must support the import and export of data, with the ability to manipulate CSV (comma separated values) columns into created item types for further processing.
- Importing data must be assimilated in a customizable fashion that allows the in-processing of previous inventory software data to avoid truncating data fields.

Automated Data Backups:

- Customizable by frequency and location saved.

Barcode Scanning:

- Scanners must be compatible with USB, wireless scanning is prohibited on government computer systems.

- Has compatibility with 2D and QR (quick response) code scanners.

Label Printing/Creation:

- The software must support label creation
- 5160 address labels, 5.5” x 8.5” labels
- Must generate 2D barcodes for these sizes.
- Pulls barcode data from existing excel sheets or generated data internally.

Must allow modification of text size, spacing, and the ability to create QR codes for labels.

Capability to place selected inventory on hold, freezing the inventory from being manipulated by selected users.

Implementation, customer service, and issue resolution timelines

- Vendor provides analysis of inventory needs and sets up test environment for client to provide feedback on within 12 weeks of contract initiation.
- After test environment is approved, on-site support is provided for implementation and assistance with importing data within 15 weeks of contract initiation.

1. After software is fully live, customer service provided shall meet the following minimum requirements: Acknowledgement of ticket creation within 24 hours. 48-hour ticket resolution for major software issues affecting security or total software access.

1. 10 business day resolution for customization requests and minor bug corrections.

1. Quarterly evaluation meetings from vendor to assess product acceptability and address customer feedback for the first year.

2. **Other Direct Costs (ODCs):** N/A

3. **Deliverables:** Set up stage initial system data load of customer, vendors, items, bins, inventory, test Point of sale (PoS).
   Scope stage design analysis and process document delivery.
   Deve Stage Confirmation and development as needed,
   consulting, includes testing/training of systems to prepare for User

Acceptance Testing (UAT).
UAT Stage guide client through UAT with prescribed tests, resolve issues, provide additional recorded training as needed.
Live Stage Product consultation to train, support and resolve issues.

4. **Invoicing:** The Contractor shall bill in WAWF after DEVCOM Soldier Center confirms receipt of Software.

5. **Delivery Date:** Vendor will need 15 weeks lead time for delivery, after receipt of order.

6. **Ship to DODAAC and Shipping Address:** U.S. Army DEVCOM Soldier Center, ATTN: Corey Hauver, 15 General Greene Ave, Warehouse 20, Natick MA, 01760-5000. DODAAC: W56YHX

7. **WAWF Inspection & Acceptance POC:** Christine Poulack (508) 206-3145