



One Network Enterprises' Ammunition Management System (AMS)

A Proven Solution for Militaries Around the World

WHAT MAKES ONE NETWORK DIFFERENT?

One Network Enterprises (ONE) delivers a multi-party network platform solution that provides modernization, growth, and a guarantee that the solution will never go legacy. Everyone on the network has access to everything on the network through a rich and robust permissions model. The “network effect” leverages joint investment across services and partners. You get regular modernization that you can deploy as you choose. It is secure and operates within highly restrictive military IT infrastructures.

The system provides a **real-time Single Version of the Truth (SVOT)** across all parties, organizations and enterprises. It includes:

- **Collaborative workbenches**, dashboards and embedded social apps that allow secure, unstructured collaboration across the Network
- **Local control towers** provide visibility and control over your supply chain network with decision support capabilities at multiple levels, and autonomous intelligent agents to enhance mission critical operations.

Militaries around the world can take advantage of the multi-network approach, managing their own munitions stores while connecting to their Foreign Military Sales (FMS) partners to enhance the acquisition and management of strategic munitions assets. The system is interoperable with many US DoD systems.

ONE NETWORK'S AMMUNITION MANAGEMENT SYSTEM (AMS)

AMS improves the overall accountability, auditability, manageability and visibility of all munitions.

Management – Visibility of supply Class V (Ground and Aviation) from initial receipt to expenditure. Connect to virtually any system, interfaces to legacy and ERP systems like Oracle and SAP, as well as DoD systems via Defense Logistics Management Standards (DLMS). Supports DLMS and Military Standard Logistics Systems (MILS) transactions.

Warehousing – Provides Care of Supplies in Storage (COSIS) from receipt into stock to issue and subsequent returns, as required. Location transfers, storage work orders (SWO), re-warehousing, inspection actions and inventory processes are included. Multiple Condition Defect Codes (CDC) per item are supported. Captures and manages the Net Explosive Weight (N.E.W.), Hazard Class, Storage Compatibility and Security Category authorized in each magazine/storage location and reports all discrepancies to ensure compliance and minimize risk and errors. Multi-level storage sublocations are available, including grid locations, bins, International Standards Organization Military-owned, Demountable Container (ISO MILVAN) containers and open storage locations.

Inventory Processes – Provides periodic, Category I & II semi-annual, required annual 100% physical inventory of all assets in storage. The Physical Inventory Control Program (PICP) module allows both cyclic or random sampling. Scheduling alerts keep inspections on track by showing inventories that are due to be inspected. An inventory plan/schedule can be established and managed within the Inventory Module.

Flexible Lot/Serial Control – Manage by expiration date, install date, service life and in-use date (i.e. captured flight time) for items like commercial nitroglycerin dynamite, Cartridge Actuated Devices & Propellant Actuated Devices (CADS/PADS), simunitions and other Class V (A) assets.



Serialized Assets – Track serialized assets by Item Unique Identification (IUID) (Serial Number) from initial receipt to storage area, including missile maintenance conversion to other missile Department of Defense Identification Code/ National Stock Number/National Item Identification number (DODIC/NSN/NIIN), transfers of location or military service branch and up to and including Demilitarization, FMS and Expenditure or Loss action.

Disconnected Operations – Work anywhere with the patented Platform to Platform Integration (P2PI) disconnected client, which allows for store and forward with hardened mobile computers with scanners. Inventory actions, pick/pack lists, containerization, shipment receipts, issues and returns, transfers, complete round buildups, and inspections are accomplished while disconnected from the enterprise, with sync at a later time. P2PI is designed to work over low bandwidth devices like Iridium modem, military communication equipment (SINGARS, GSWAN) and other tactical networks along with commercial or military internet/intranet services.

Real-Time Planograph – Provides a planograph view of each storage location and is updated in real-time as transactions are being processed (i.e., magazine transfers, issue and receipt transactions, and warehouse storage processes).

Inspections – Ease of use ability to conduct various types of inspections or surveillance processes for reclassification notifications or end-of-life adjustments.

Container Operations – The system manages containerization build up and teardown processes for bulk transfers, individual line item or bulk item issuance.

Customer Orders – Manages customer orders from initial placement (internal to the system or received external via DLMS or other transaction message) by NSN/NIIN, Part number/CAGE or DODIC to the issue, turn-ins/returns, residue by NSN and excess. The system captures the receipt from the internal property book either as auto-push/auto-receipt or receipt notification by the user into the associated property book.

Configurable Reports – Generates reports by Lot Number, Serial Number, DODIC, NSN/NIIN, expiration date, hazard class, compatibility, storage locations and numerous other filters provided.

Local Disposition – The Assistance Request (AR) module allows the user to request Dispositions authority from the Services Designated Disposition Authority (DDA) via the chain of command, including the base/station/unit Explosive Safety Officer (ESO) for historical record keeping.



DoD Compliant Forms – Generates various forms with associated PDF-417 barcodes in accordance with DoD standards. Examples are receipt forms, work order forms, inventory forms. Configuration for local forms is supported.

Flexible Financials – Manage procurement and expenditure transactions. Use the general ledger/financial system of record or integrate to the general ledger system of choice.

Kitting – Create and manage ‘kits’ of various stock numbers that can be issued and received by organizations for deployment or training.

Autonomous and AI-Assisted Planning – A Demand Planning module enables plans by stockage objectives, and reorder points can be either automatic through One Network’s intelligent NEO agents, or it can suggest reorder quantities for the end user to consider and execute. Planning uses various data sets to determine Courses of Action (COA’s), which may include storage area (sq. ft. or total pallet count), Total Munitions Requirement (TMR), Storage location authorizations, unit authorization/ allowances, demand history by unit, by Ammunition Supply Point (ASP), by geo-location and other data sets modeled in the system. Intelligent NEO agents use machine learning (ML) and can be taught to “learn” what actions need to be taken for certain conditions to maximize stock and parts utilization.

Control Tower – Supports the fusion of data across multiple parties including but not limited to Requisitions, Advance Shipping Notice (ASN’s), Track and Trace, Projected Inventory Views (PIVs), capacities etc.

Complete Round Count/All Up Round – Calculates all up rounds that have to be built from multiple components. For Aviation Ordnance, as an example, the system looks at the part number configuration, including all interchangeable parts and calculates how many of each type or variant of the all up round can be built with on-hand stocks available.

Total Multi-Tier Visibility – Provides inventory visibility across all tiers of ammunition management from National, Strategic, Operational and Tactical levels, based on role and permission. Visibility for Vendors/Industrial base (key suppliers and OEMs) can be included.

Procurement to Delivery – Manages the procurement process from contract submission to the receipt of inventory from the vendors, including delivery schedule planning.

Master Data Management – Manages master data by integrating with any authoritative data/data source. The system will maintain a substitution/interchangeability listing for DODIC’s along with the Prime substitution relationship in order of fulfillment, (i.e. primary sub, secondary sub).

Flexible and Granular Permissions – Role-based permissions model to manage and control access to data and user-allowable actions. Easy for administrators to add roles, users and permissions.

Cloud Native – Built to run in the cloud, customer has options to operate in a public secure Cloud, private cloud enclave, or delivered via a Federal Risk and Authorization Management Program (FedRAMP) or similar service.

Configurable Dashboards & Analytic Tools – Highly visual, multi-tier configurable dashboards keep users focused on key analytics and alerts without distractions. Dashboards are available to all users and tiers, with a wide variety of portlets and options, giving them total control over the data and layout.

Autonomous Forecasting – Autonomous intelligent forecasting agents determine forecasting calculations at a user-defined cadence. Automatically monitors demand signals (point of sales/issue) for any aberrations and continuously adjusts demand and supply plans to ensure customer service levels are met.

Federated Network – Capabilities can be run as multiple instances, connected together with P2PI that, essentially, looks like one “instance” to the user. This is highly beneficial to geographically dispersed and complex configurations. Different customers can run different versions of platform software. They can each take upgrades/modernizations at different times based on their own schedule (not requiring all customers to upgrade all at once), and the multiple instances allow easier scalability.

Never Legacy Guarantee – Subscription model includes support and modernization (e.g., no out of cycle sustainment costs) for deployments utilizing ONE’s Developer Network™ Software Development Kit (SDK) and Application Programming Interfaces (APIs). The architectural approach, a backward compatible SDK, and public APIs provide the ability for multiple customers to run on the same instance of software. Commercial platform and module upgrades (bi-annual on average) can be implemented with no effect on the customer solution, and the customer can decide whether to take advantage of new capabilities. Incur no out-of-cycle sustainment costs as the total set of capabilities is supported as commercial off-the-shelf (COTS) solution.

Radio Frequency Identification (RFID) – Captures RFID tracking information and associates it to the appropriate line item asset.

Complex Configuration Forecasting with Demand Sensing – Robust capability to compute not just independent demand but also dependent demand across assets, carcasses, and spare parts. Embraces not just history but all order forecasts in forward operational and retail locations to provide a demand sensing and consumption service in the network.

BEYOND AMS TO SUPPLY MANAGEMENT AND JOINT SERVICES

Underlying the AMS is One Network’s powerful platform, NEO. The NEO platform:

- **Is Supply Class Agnostic** – extending beyond Class V, supporting all supply classes, so military organizations can now manage all classes of supply on a single platform.
- **Enhanced Capability** – provides complete visibility of managed assets, including assets managed by other services, and knows the true value of inventory stocks.
- **Increased Flexibility** – works with military processes as needed and is easily configured to meet specific military doctrinal and even congressional mandates, like DLMS, FIAR and IUID.
- **Enables Joint Services** – The Platform is multi-party, multi-echelon, allowing military services to build on each other’s investments and collaborate more closely.
- **Supports Future Growth** – embraces other technologies and the ONE DevNet™ SDK enables solutions to be adapted, extended, and built from scratch to fully support future needs.

Today’s operational systems for managing munitions and supplies are no longer able to cope in today’s dynamic and fluid theaters. The One Network Ammunition Management System and the NEO Platform give you operational readiness and agility that can mean mission success or failure.

Contact Us at One Network Enterprises

Kurt C. Garrett | ✉ kgarrett@onenetwork.com

David P. Stephens | ✉ dstephens@onenetwork.com

☎ +1 866 302 1936 (toll free)

🌐 www.onenetwork.com

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