Department of the Navy SBIR/STTR Transition Program
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Topic # N182-123
Clearinghouse for Subsistence Ordering & Receipt (CSOR)
Sonalysts, Inc.

WHO

SYSCOM: ONR

Sponsoring Program: NAVSUP HQ Fleet Support Division

Transition Target: Deploy Electronic Clearinghouse for Subsistence Order and Receipt Transactions (eCSORT) to the Navy Cloud for use by Fleet logistics operators and food service managers. Continue development of advanced analytics modules to improve Fleet readiness assessment and decision making.

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Other Transition Opportunities: eCSORT can be adapted to additional classes of supply beyond subsistence (e.g., medical, ammunition, and consumables) and other DoD and commercial institutional food service customers.

Notes: eCSORT is designed for shore-based logistics operators, managers, and Fleet leadership. It requires no additional equipment, running in standard web browsers. Sonalysts' fully functional prototype has been successfully piloted in the Fleet.

U.S. Navy image VIRIN 221228-N-XX566-1123, available at https://www.dvidshub.net/image/7576337/uss-chung-hoon-unrep

WHAT

Operational Need and Improvement: Operating nearly 300 ships and more than 3,700 manned aircraft, the 400,000+ active and reserve Sailors of the U.S. Navy provide our Nation with tremendous combat, peace-time presence, and humanitarian assistance capabilities. Feeding these professionals 24/7 requires our Navy to operate galleys around the world, ashore and at sea, aboard ships ranging from nuclear submarines operating under the polar ice cap to aircraft carriers conducting around-the-clock flight operations in the heat of the Arabian Gulf. Keeping the storerooms of these galleys supplied is a complicated task. Today's subsistence ordering systems have evolved over the past half century to procure and deliver food to the U.S. military around the world using over 100 contracts managed by Defense Logistics Agency. eCSORT improves multiple facets of the Navy food logistics chain by fully automating workflows, applying artificial intelligence, and replacing multiple spreadsheets and manual processes.

Specifications Required: NAVSUP requires an information system that provides Subsistence Total Order and Receipt Electronic Systems (STORES) operators and Combat Logistics Officers (CLOs) with a Financial Improvement and Audit Readiness (FIAR)-compliant "clearinghouse" for food orders that validates and updates subsistence requisition order units of issue, quantities, prices and stock numbers prior to entering into STORES. The system will support "brokering" orders to another SPV when the original cannot fulfill a requirement, and will have the capability to generate subsistence orders based on basic ship information (time and personnel on board) and a Navy Standard Core Menu. The solution should generate obligation/de-obligation transactions to update U.S. Navy Bureau of Personnel (BUPERS) funding accounts based on Subsistence Prime Vendor (SPV) inventory availability.

Technology Developed: eCSORT is a cloud hosted web application built on a relational database system to combine and process data from 23 different sources. Sonalysts' proprietary stock item substitution interface and menu matching technologies are core features that automate currently manual processes.

Warfighter Value: eCSORT reduces Sailor/civilian/contractor rework throughout the logistics chain:
- Raises Combat Logistics Force (CLF) efficiency.
- Increases menu item availability aboard ships.
- Improves overall food service logistics readiness during deployed operations including Operational Plan (OPLAN) Phase II+ operations and in denied communications environments.
- Supports worldwide Continuity of Operations (COOP).
- Provides subsistence logistics metrics availability.
- Maintains a centralized repository for menu and recipe data.

WHEN

Contract Number: N68335-20-C-0280   **Ending on:** Mar 09, 2024

Milestone	Risk Level	Measure of Success	Ending TRL	Date
Targeted Ideation Development Event (TIDE)	N/A	Software Requirements expanded and improved	3	1st QTR FY20
Prototype Completed	Low	Demonstration with NAVSUP and Fleet Stakeholders	5	3rd QTR FY21
U.S. Navy Large Scale Exercise-2021 Demonstration	Low	Validated eCSORT's Readiness to Support Push Logistics	7	4th QTR FY21
Fleet Pilot in Norfolk, Groton, and Pearl Harbor	Low	All functions of eCSORT operate as designed	9	1st QTR FY24
If Phase III Awarded, eCSORT Deployed for Navy-wide Use	Medium	All subsistence MILSTRIPs pass through eCSORT	9	1st QTR FY25

HOW

Projected Business Model: Sonalysts will be contracted to deploy to a Government Cloud service and sustain eCSORT using a Phase III SBIR contract. eCSORT will be operated as a Software as a Service application available to Navy logistics operators and Fleet managers. Sonalysts will provide ongoing software support, to include routine capability expansion updates and cybersecurity maintenance.

Company Objectives: Sonalysts is targeting a Phase III contract with NAVSUP by September 30, 2023 and an additional Phase III contract with NAVSUP for an additional class of supply (e.g. medical or consumables), by September 30, 2024. Sonalysts seeks to expand the customer base to another service.

Potential Commercial Applications: eCSORT technology is directly applicable to large scale food service operations, such as hospitals and educational institutions, that serve standard menus and procure food supplies from multiple vendors on a repeated basis.

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