DoD Microelectronics Supply Chain Management Using ANDS™



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Background



- Microelectronics Industry is Not Aligned with DoD due to Low Volume and Extended Product Lifecycles Creating Chronic Issues:
 - Costly Life-Time Buys
 - Diminishing Manufacturing Sources and Material Shortages (DMSMS)
 - Shortages and increased market prices incentivizes Counterfeit Parts
- UECS Developed an Innovative Approach for Managing DoD Supply Chain Vulnerabilities and Challenges:
 - Secure Platform called Aggregated Network Data Solutions (ANDS™) Decision Support System
 - ANDS™ enables DoD to Collaborate with OEM & OCM Decision Makers, SME's, and Authorized Distributors
 - ANDS™ provides quick & uniquely accurate component life cycle status and generates viable solutions
 - ANDS™ mitigates counterfeit parts from entering customers supply chain by working with OCMs/OEMs

UECS & ANDS™



- UECS is a woman owned small business focused on developing and implementing innovative solutions for logistics challenges faced by DoD
- UECS's Chief Technology Officer, Ed Odette has 30+ years experience working with the DoD, OEMs, and OCMs to collaborate, research, and successfully manage supply chain challenges and implement viable and timely solutions
- Solid technical team with significant engineering and logistics DoD experience
- Currently executing a DoD RIF contract to complete ANDS™ development and have already successfully demonstrated these unique processes on the B-2 and Global Hawk Programs:
 - A chronic logistics issue classified as obsolete on was resolved within 30 days using ANDS™
 - Quickly identified & corrected incorrect drawings, part, and lifecycle data
 - Same part for past 10 years had wrong NSN part number
 - Provided accurate vendor component life cycle data versus predicted data
 - Created demand for franchised distributors and suppliers improved service levels
 - Mitigated counterfeit parts from entering customers supply chain
- Cost Avoidance Projections based on SD-22 DMSMS guidelines for these 2 programs >\$29M to rapidly resolve MICAP events

UECS ANDS™ Differentiators



- ANDS™ Collaboration Manager provides Buyer and Supplier formal structures, processes, organization, and governance facilitating high levels of trust in relationships to manage their supply chain risks
- ANDS™ Supplier Collaboration Index (measure and improve existing and future supplier service levels)
 resolves several critical obsolete components for companies seeking to expand and improve their suppliercollaboration efforts
- ANDS™ Component Problem Response Reports provide OCM accurate data on all required parts and materials to support DoD and their OEMs to reduce the overall costs of ownership on their weapon systems by:
 - · Reducing the number of false alarms due to inaccurate data
 - Facilitating economical DMSMS resolution costs
 - · Minimizing delays in depot-level repair
 - Improving weapon system availability
- UECS is also an authorized vendor with DoD OEMs for DMSMS Management (Signed Proprietary Information Agreements in place with Lockheed Martin, Boeing, and Raytheon) for access and review of critical component data (drawings) and recommending viable solutions

ANDS™ vs. Part Database Subscriptions



Service	UECS Supply Chain Management (ANDS™)	Parts Database Subscription
Component Availability Information	Actual	Predictive
Single Part Search	Yes	Yes
BOM Scrub	Yes	Yes
EOL/PCN Notices and GIDEP Alerts	Yes	Yes
Active/Passive Component Coverage	Yes	Yes
Configuration Management	Yes	Yes
BOMS Archived Including all Revisions	Yes	Yes
BOM Scrub with Suggested P/N corrections	Yes	No
Secure/Integrated Web Interface for DoD	Yes	No
OCM & OEM Collaboration Management	Yes	No
Communicate with OEM SMEs	Yes	No
Forecast communicated to OCM	Yes	No
Identify Common Parts across UECS Customers	Yes	No
Identify Component Costs and Lead Time	Yes	No
Procurement Leveraging with OCM	Yes	No
Qualification for Obsolete Device	Yes	No
Deliver Recommended Solution for Obsolete Device	Yes	No

Supply Chain Management Collaborative Environment For Department of Defense Enterprise, OEMs, and OCMs



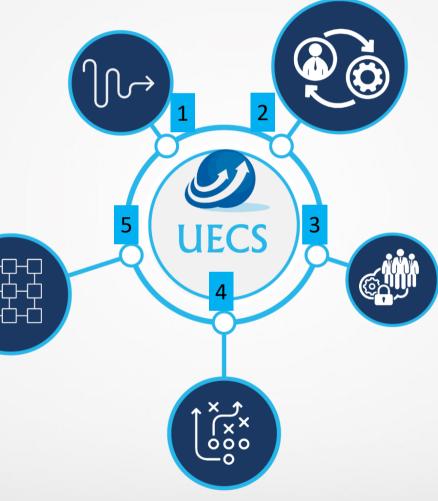
Unique ANDS™ Decision Support System Benefits

ANDS™ Streamlines Supplier Onboarding

ANDS™ Vendor Portal accelerates access to customer part data and ability to validate supply chain risks and provides proposed SME solutions.

ANDS™ Component Problem Research Report

Automates capture of OCM component data details i.e., parametric, availability, cost, schedule along with SME suggested resolutions.



Improved Disruption Mitigation

ANDS™ lowers the frequency and duration of MICAP and production stoppages.

ANDS™ Supply Chain Collaboration

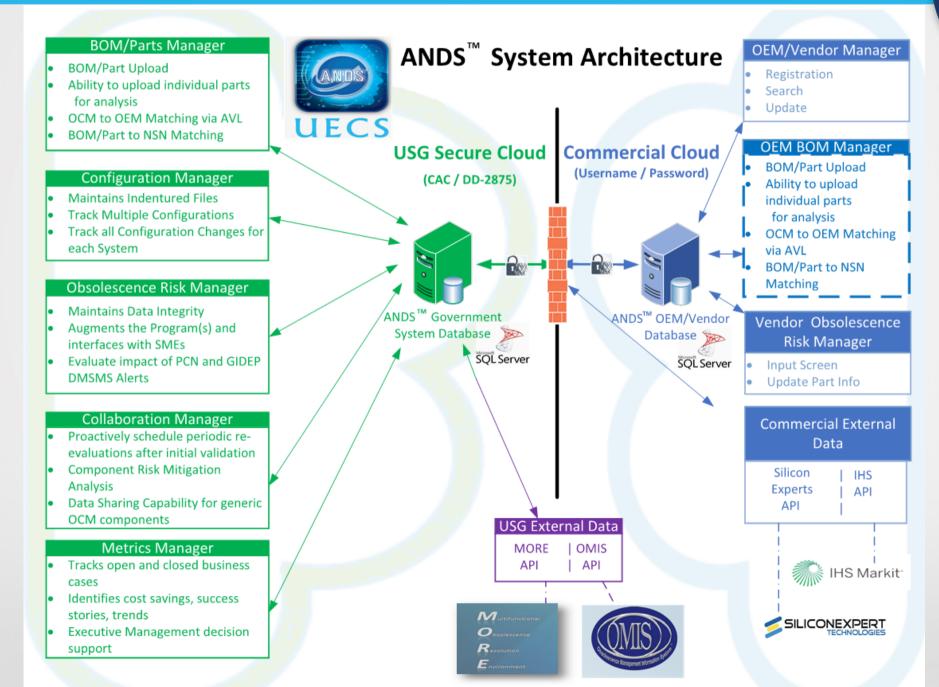
Integrates secure communication across DoD programs with OCMs and OEMs Enables a forward-leaning posture to anticipate impacts and consequences of inaccurate data.

ANDS™ Supplier Management

Drives supply chain agility by providing accurate data to support acquisition / procurement operations.

This blockchain network provides permissioned access to pre-verified supplier information and accelerates supplier onboarding, simplifies supply chain management and reduces risk.

ANDS™ Architecture





Contract Options



Multiple Award Schedule (MAS) GSA Contract - IDIQ contract

- UECS is currently preparing comprehensive offer for submission to GSA
- Integrated solution offerings consists of ANDS™ and professional engineering services
- Offer submission to GSA planned for early September 2021
- Contract award can be fast tracked with agency justification to meet immediate requirements and spend end of year funding (via request letter from senior agency official)

In addition to GSA proposal can establish concurrent contracting methodology

- Establish Basic Ordering Agreement (BOA) or IDIQ and issue Time and Material Purchase/Delivery Orders as-needed
- Will provide fully loaded labor rates and material at cost
- Estimated man hours for an average DMSMS case is 5.5 hours.
- Sole Source J/A predicated on UECS being the single source and USG having restricted rights in ANDS
- Start work on or before 31 October 2021, POP 24 months

Benefit to Agency

- Use e-buy RFQ posting to meet due diligence requirements to seek 3 GSA qualified contractors
- Streamlines procurement process and includes built-in terms and conditions, FAR compliance and pre-negotiated offerings, pricing and discounts
- Best-in-Class (BIC) Vehicle as defined under category management program by Office of Management and Budget (OMB)
- Enables Goal: Commence work on or before 31 October 2021 with a 24-month performance term

Proposed Next Steps



- Schedule technical discussions to enable seamless ANDS™ access
- Develop roadmap for Bomber Programs to facilitate cross-service collaboration for common parts using ANDS™
- UECS submit draft SOW to Bomber Programs for review and coordination
- Program Support required to fast track GSA Award

ANDS™ – Innovative tool to Rapidly Resolve Chronic DoD Supply Chain Issues