DoD Microelectronics Overview

ANSI Workshop on Global Supply Chain Security for Microelectronics Standardization

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“Semiconductors are essential to national security. . . . They are fundamental to the operation of virtually every military system, including communications and navigations systems and complex weapons systems such as those found in the F-35 Joint Strike Fighter.”

“Semiconductors are key to the “must-win” technologies of the future, including artificial intelligence and 5G, which will be essential to achieving the goal of a “dynamic, inclusive and innovative national economy” identified as a critical American advantage in the March 2021 Interim National Security Strategic Guidance.

“Building enduring advantages . . . getting the technology we need more quickly, and making investments in the extraordinary people of the Department, who remain our most valuable resource.”
DoD Microelectronics Vision

Vision Statement:

Guaranteed, long-term Access to Measurably Secure Microelectronics enabling Overmatch Performance and increasing Military Operational Availability and Warfighter Combat Readiness

- Contribute to and influence interagency and national efforts to grow ME capabilities to meet national security needs
- Cultivate a right-sized workforce with the right skills at the right place and the right time
- Ensure timely access to measurably secure and affordable ME technology
- Motivate programs and their primes to modernize and exploit the most capable ME
- Leverage tools, policies and enforcement to reduce or eliminate costly sustainment issues
- Centralize knowledge in a DoD "front door" organization to augment decentralized execution
- Increase ME discovery and innovation, and accelerate transition into DoD systems
- Contribute to and influence interagency and national efforts to grow ME capabilities to meet national security needs
“Supply Chain Visibility: DoD is still building visibility into the sub-tiers of the microelectronics supply chain; until there is greater visibility, it will be difficult to identify certain supply chain threats, vulnerabilities, and risks. Visibility is further eroded by system-level (next-level assembly comprised of multiple microelectronics components) manufacturers who simply seek the lowest cost producers and are source agnostic.”
Access to Measurably Secure ME will serve this critical infrastructure market

- Domestically designed, manufactured, packaged and tested parts that meet U.S. security and safety standards
- Ensure access to a forecasted aggregated demand of SOTP and Legacy Technologies (designs remain robust over a 10+ year PoP)

A “whole of nation” approach to access Measurably Secure ME