



USPAE Overview

U.S. Partnership for Assured Electronics (USPAE)

Defense Electronics Consortium (DEC)

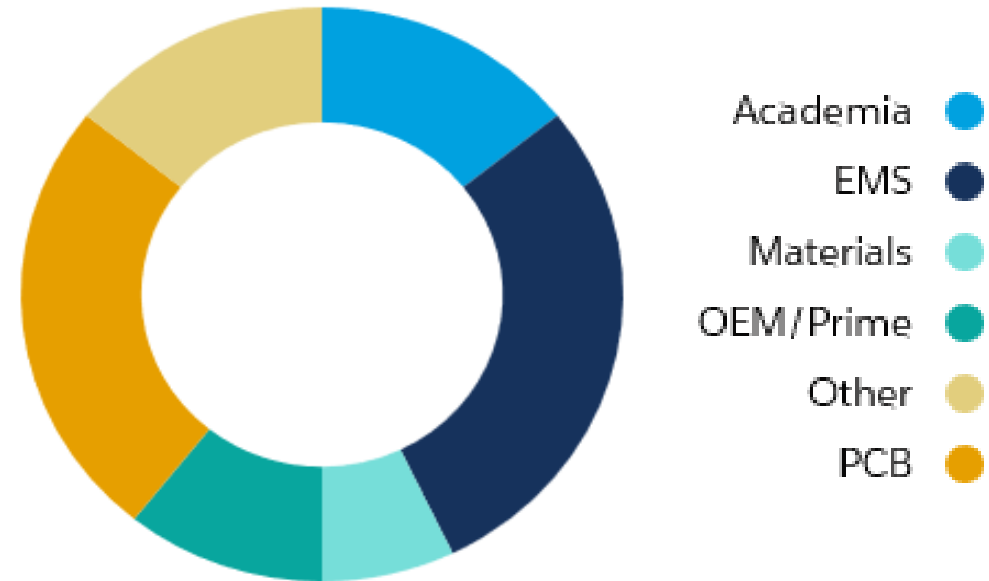
Defense Lead-free Initiative



USPAE Overview

Mission: *Strengthen the global competitiveness of the U.S. electronics industry through partnership with the U.S. Government.*

- Non-profit Organization
- Launched in February 2020
- Members must be organized in U.S. or one of its allied countries
- Members certify to IPC1791 standard within one year
 - Developed with DoD PCB Executive Agent
 - Cyber & physical security, Ownership, Personnel Checks, SCRM, Anti-counterfeit

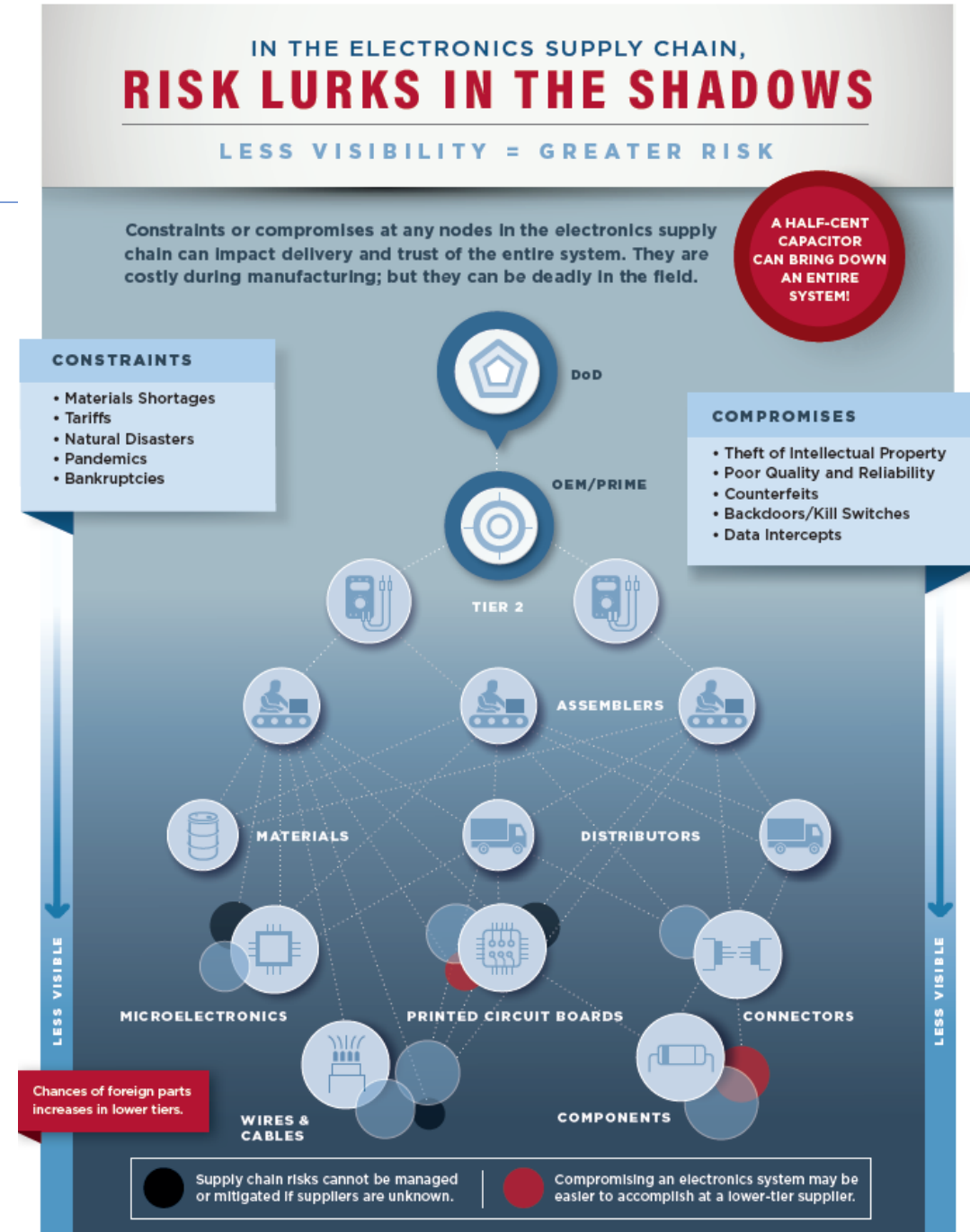


Member Type Distribution



Industry Benefits

- Greater access to USG opportunities
 - DEC, other contracts
- Industry growth
 - Find new teaming partners
 - Connect with new customers
- Technology insights
 - Learn about government agency directions
 - Better position firm for growth
- Global competitiveness
 - Join USPAE in advocating for programs and funding to strengthen U.S. electronics industry





Activities

- Support DoD efforts
 - Collaborate with Executive Agent for PCB and Interconnect Technology
- Strengthen electronics security
 - Support and promote standards, like IPC-1791
- Help educate industry
 - CMMC, Section 889, Section 224, Title III
- Raise awareness of electronics industry issues
 - DoD Joint Defense ManTech Panels
 - NDIA Electronics Division
 - USG briefings, speaking engagements, media
- Manage Defense Electronics Consortium



Electronics Supply Chains – Secured.

Advanced electronics are at the heart of most defense and security systems and many other kinds of critical infrastructure.

But as electronics have become more and more crucial in these vital systems, supply chain disruptions have become a greater concern. Constraints or compromises involving electronics system components – even tiny, inexpensive ones – can bring entire systems to a halt.

IPC, the global electronics manufacturing industry association, responded to this concern by developing IPC-1791, the “Trusted Supplier” standard, in collaboration with the U.S. Department of Defense. Companies certified as “Trusted Suppliers” under IPC-1791 can assure customers that their products and services meet the highest levels of integrity and reliability.

BENEFITS OF IPC-1791

- Greater supply chain assurance for customers with the highest security needs
- Reduced risk of tampering and counterfeiting
- Reduced risk of intellectual property theft
- Highest product quality requirements

THE KEY ELEMENTS OF IPC-1791 ARE:



SECURITY: IPC-1791 provides security protocols for personnel, facilities, and data, and it is the only standard that validates compliance with the U.S. Government’s NIST 800-171 cybersecurity controls.



COUNTERFEIT PREVENTION: IPC-1791 combats counterfeits by requiring chain of custody documentation for data, hardware, work in progress, scrap, finished goods, and shipping.



SUPPLY CHAIN RISK MANAGEMENT: Requirements include supply chain visibility, dual-sourcing, obsolescence management, financial checks, and a disaster-recovery plan.



OWNERSHIP: IPC-1791 prohibits investors from any company on the U.S. Government’s “ITAR prohibited country” list and requires notification of ownership and management changes.



QUALITY: Companies must meet the highest quality requirements under multiple other industry standards, addressing all stages from design through production.

Learn more about how IPC-1791 helps ensure supply chain security and resilience.

SUPPLIERS:

→ [Start here](#) to get your copy of IPC-1791 and begin the journey to becoming a more valued supplier.

BUYERS:

→ [Learn more](#) about the details of IPC-1791 to better understand how it can help strengthen your supply chains.

For further information:

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DEC Overview

Mission: Strengthen the economic and force posture of the U.S. defense electronics industrial base.

- Other Transaction Agreement (OTA)
 - Managed by USPAE
- Collaboration between industry & DoD
- DoD wants greater access to lower tier suppliers
- Industry has longed for greater DoD access
- DoD benefits:
 - Reduced cost and time while increasing innovation
 - Increased awareness of industry weaknesses and gaps
 - Stronger and more resilient defense electronics industrial base



www.deconsortium.org



DEC Overview

- Example opportunities to strengthen U.S. industrial base
 - Finer circuit traces
 - Manufacturing advances
 - 3-D Electronics printing
 - Materials (New and domestic sources)
 - Workforce (Scale and velocity)
- Electronics ecosystem must keep pace with semiconductor advances
 - Entire supply chain must be addressed





Lead-free Initiative

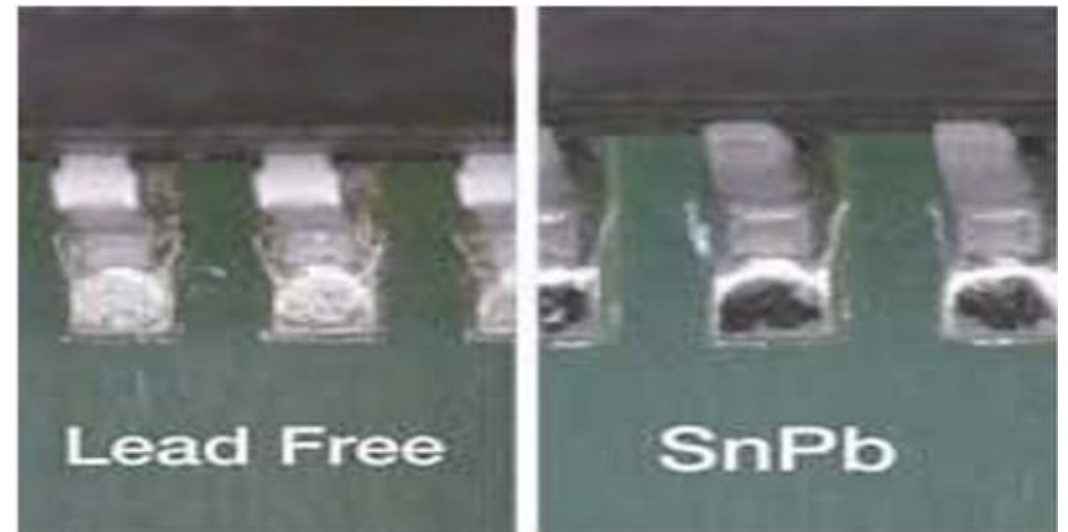
Objective: Accelerate the adoption of lead-free electronics by the Aerospace, Defense, and High Performance sectors.





Defense Lead-free Initiative

- Data-driven solder performance specifications
 - Lead-free solutions in DoD systems
- DoD solder user's handbook and roadmap
 - Solder selection through verification and validation
 - Implementation plan by use case
- DoD benefits:
 - Reduced supply chain risks
 - Faster delivery time and lower costs
 - Accelerate tech refresh rates
- Industry benefit:
 - Greater sales opportunities



Source: CEDOS Electronics



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