**Title:** DoD Directive 5101.18E

**Title:** DoD Executive Agent for Printed Circuit Board and Interconnect Technology

**Originating Component:** Office of the Under Secretary of Defense for Acquisition and Sustainment

**Effective:** June 12, 2016

**Change 1 Effective:** August 31, 2018


**Incorporates and cancels:** Deputy Secretary of Defense Memorandum, “Designation of the Secretary of the Navy as the DoD Executive Agent for Printed Circuit Board Technology,” June 8, 2009

**Approved by:** Robert O. Work, Deputy Secretary of Defense

**Change 1 Approved by:** Karen Saunders, Chief of Staff

**Purpose:** This issuance:

- Establishes policy and assigns responsibilities for a DoD Executive Agent (EA) for Printed Circuit Board (PrCB) and Interconnect Technology and designates the Secretary of the Navy as the DoD EA for PrCB and Interconnect Technology, in accordance with Section 256 of Public Law 110-417 (also known as the “Duncan Hunter National Defense Authorization Act for Fiscal Year 2009”) and DoD Directive 5101.1.

- Designates the Under Secretary of Defense for Acquisition, Technology, and Logistics (USD(AT&L)) to serve as the Principal Staff Assistant for PrCB and interconnect technology.
TABLE OF CONTENTS

SECTION 1: GENERAL ISSUANCE INFORMATION ................................................................. 3
  1.1. Applicability ........................................................................................................ 3
  1.2. Policy .................................................................................................................. 3
  1.3. Summary of Change 1 ...................................................................................... 3

SECTION 2: RESPONSIBILITIES .................................................................................... 4
  2.1. USD(AT&L) ......................................................................................................... 4
  2.2. Deputy Assistant Secretary of Defense for Manufacturing and Industrial Base Policy (DASD(MIBP)) ................................................................. 4
  2.3. DoD Chief Information Officer ......................................................................... 4
  2.4. DoD Component Heads .................................................................................... 4
  2.5. Secretary of the Navy ....................................................................................... 4

GLOSSARY ..................................................................................................................... 5
  G.1. Acronyms ........................................................................................................... 5
  G.2. Definitions .......................................................................................................... 5

REFERENCES ................................................................................................................ 6
1.1. **APPLICABILITY.** This issuance applies to OSD, the Military Departments, the Office of the Chairman of the Joint Chiefs of Staff and the Joint Staff, the Combatant Commands, the Office of the Inspector General of the Department of Defense, the Defense Agencies, the DoD Field Activities, and all other organizational entities within the DoD (referred to collectively in this issuance as the “DoD Components”).

1.2. **POLICY.** It is DoD policy that the DoD EA for PrCB and Interconnect Technology facilitates access to reliable, trusted, and affordable PrCB fabrication and assembly products and technologies that meet the quality, performance, and security requirements of the DoD. The DoD EA for PrCB and Interconnect Technology will facilitate collaboration within and across the DoD to conduct research, development, and sustainment efforts targeting Component-unique requirements.

1.3. **SUMMARY OF CHANGE 1.** This change reassigns the office of primary responsibility for this issuance to the Under Secretary of Defense for Acquisition and Sustainment in accordance with the July 13, 2018 Deputy Secretary of Defense Memorandum.
SECTION 2: RESPONSIBILITIES

2.1. USD(AT&L). As the Principal Staff Assistant for PrCB and interconnect technology, the USD(AT&L) oversees the DoD EA for PrCB and Interconnect Technology.

2.2. DEPUTY ASSISTANT SECRETARY OF DEFENSE FOR MANUFACTURING AND INDUSTRIAL BASE POLICY (DASD(MIBP)). Under the authority, direction, and control of the USD(AT&L), the DASD(MIBP) serves as the OSD focal point to coordinate matters regarding PrCB and interconnect technology with other OSD stakeholders.

2.3. DOD CHIEF INFORMATION OFFICER. The DoD Chief Information Officer coordinates the development of cybersecurity requirements for PrCB and Interconnect Technology with DoD EA for PrCB and Interconnect Technology.

2.4. DOD COMPONENT HEADS. The DoD Component heads:

   a. Coordinate PrCB and interconnect technology research and development with the DoD EA for PrCB and Interconnect Technology.

   b. Designate a Component focal point for PrCB and interconnect technologies to act in an advisory and staff capacity to the DoD EA for PrCB and Interconnect Technology.

2.5. SECRETARY OF THE NAVY. The Secretary of the Navy is the DoD EA for PrCB and Interconnect Technology. In addition to the responsibilities in Paragraph 2.4., and in his or her capacity as the DoD EA for PrCB and Interconnect Technology, and in accordance with Section 256 of Public Law 110-417, the Secretary of the Navy:

   a. Develops and maintains a PrCB and interconnect technology roadmap to ensure the DoD has access to manufacturing capabilities and technical expertise necessary to meet future military requirements regarding this technology.

   b. Assesses vulnerabilities, trustworthiness, and diversity of the industrial base supply chain and develops strategies to address matters resulting from that assessment in accordance with DoD Instruction 5200.44.

   c. Recommends funding strategies necessary to sustain the PrCB and interconnect technology management functions and meet requirements identified as a result of these assessments.

   d. Recommends to the Secretary of Defense other roles and responsibilities to be included in the PrCB and interconnect technology program.
Glossary

G.1. Acronyms.

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<tr>
<th>Acronym</th>
<th>Definition</th>
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<tbody>
<tr>
<td>DASD(MIBP)</td>
<td>Deputy Assistant Secretary of Defense for Manufacturing and Industrial Base Policy</td>
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<td>DoD EA</td>
<td>DoD Executive Agent</td>
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<tr>
<td>PrCB</td>
<td>printed circuit board</td>
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<tr>
<td>USD(AT&amp;L)</td>
<td>Under Secretary of Defense for Acquisition, Technology, and Logistics</td>
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G.2. Definitions. These terms and their definitions are for the purpose of this issuance.

**interconnect technology.** Technology associated with all physical connections that provide mechanical, chemical, electrical, optical, sonic, or thermal linkages between a pairing of individual components, integrated circuits, electronic subassemblies, or the application environment.

**PrCB.** The foundation for all electronic equipment which both mechanically supports and provides electrical connections between electronic components using conductive traces, usually etched from copper sheets laminated onto a non-conductive substrate. The acronym “PCB” (printed circuit board) is used interchangeably with PrCB in industry.

**trustworthiness.** The inherent confidence in a particular item as it pertains to quality, reliability, availability, integrity, and technology protection. With reliance on global sources of supply growing across the spectrum of electronic products, confidence in system availability and performance is becoming increasingly difficult. Characteristics of trust range from anti-counterfeit on the supply end of the life cycle, to anti-tamper on the protection end.
REFERENCES

Deputy Secretary of Defense Memorandum, “Establishment of the Office of the Under Secretary of Defense for Research and Engineering and the Office of the Under Secretary of Defense for Acquisition and Sustainment,” July 13, 2018

