

Department of Defense INSTRUCTION

NUMBER 5000.02T January 7, 2015 Incorporating Change 10, December 31, 2020

USD(A&S)

SUBJECT: Operation of the Defense Acquisition System

References: See References

1. PURPOSE. This instruction:

- a. In accordance with the authority in DoD Directive (DoDD) 5000.01 (Reference (a)) and DoDD 5135.02 (Reference (cm)), establishes policy for the management of all acquisition programs in accordance with Reference (a), the guidelines of Office of Management and Budget Circular A-11 (Reference (c)), and References (d) through (cw).
- b. Authorizes Milestone Decision Authorities (MDAs) to tailor the regulatory requirements and acquisition procedures in this instruction to more efficiently achieve program objectives, consistent with statutory requirements and Reference (a).
- c. Assigns, reinforces, and prescribes procedures for acquisition responsibilities related to cybersecurity in the Defense Acquisition System.
 - d. Incorporates and cancels Directive-type Memorandum 17-001 (Reference (cl)).
- 2. <u>APPLICABILITY</u>. This instruction 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 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 instruction as the "DoD Components").
- 3. <u>TRANSITION PLAN</u>. DoD Instruction (DoDI) 5000.02 (Reference (b)) lays the groundwork for operation of the Adaptive Acquisition Framework, which is part of the Defense Acquisition System described in DoDD 5000.01. DoDI 5000.02 will eventually cancel this issuance, which has been renumbered DoDI 5000.02T (Transition) to establish a distinction between the two issuances.

- a. This issuance will remain in effect, with content removed as it is cancelled or transitions to a new issuance, as shown in Table 1. When the Adaptive Acquisition Framework realignment is complete, an administrative change to DoDI 5000.02 will cancel this issuance.
- b. Each new or reissued acquisition policy document listed in Table 1 will clearly state the content from this issuance it incorporates and cancels.
- c. After each issuance's publication, this issuance will be administratively updated to remove the cancelled material and the Summary of Changes will state the title and number of the issuance replacing it.
- d. Those parts of this issuance that are cancelled without replacement will be formally coordinated in accordance with DoDI 5025.01 (Reference (cz)) and their cancellation similarly documented.

Table 1. Relationship of DoDI 5000.02T and New Policy

DoDI 5000.02T, Operation of the Defense Acquisition System	Associated New Policy (Issuances with Lettered Extensions in Development)
Core Acquisition Policy (Paragraph 6, Procedures)	DoDI 5000.85, "Major Capability Acquisition"
Enclosure 1. Acquisition Program Categories and Compliance Requirements Information Requirements Tables	 DoDI 5000.85, "Major Capability Acquisition" Tables "authorized by DoDI 5000.85" will be posted on the Adaptive Acquisition Framework website
Enclosure 2. Program Management	 DoDI 5000.85, "Major Capability Acquisition" DoDI 5010.44, "Intellectual Property," October 16, 2019 has replaced "IP Strategy" (formerly Para 6.a.(4))
Enclosure 3. Systems Engineering	DoDI 5000.88, "Engineering of Defense Systems"
 Enclosure 4. Developmental Test and Evaluation (DT&E) Enclosure 5. Operational and Live Fire Test and Evaluation (OT&E and LFT&E) 	DoDI 5000.89, "Test and Evaluation (T&E)"
Enclosure 6. Life-Cycle Sustainment	DoDI 5000.85, "Major Capability Acquisition"
Enclosure 7. Human Systems Integration (HIS)	DoDI 5000.PR, "Human Systems Integration in Defense Acquisition"
Enclosure 8. Affordability Analysis and Investment Constraints	Replaced by direction in §807 of Public Law 114-328

Table 1. Relationship of DoDI 5000.02T and New Policy, Continued

DoDI 5000.02T, Operation of the Defense Acquisition System	Associated New Policy (Issuances with Lettered Extensions in Development)
Enclosure 9. Analysis of Alternatives (AoA)	Necessary information is in DoDD 5105.84, "Director of Cost Assessment and Program Evaluation," and the Defense Acquisition Guidance.
Enclosure 10. Cost Estimating and Reporting	Necessary guidance is available in DoDI 5000.73, "Cost Analysis Guidance and Procedures."
Enclosure 11. Requirements Applicable to All Programs Containing Information Technology (IT)	DoDI 5000.82, "Acquisition of Information Technology (IT)"
Enclosure 12. Urgent Capability Acquisition	DoDI 5000.81, "Urgent Capability Acquisition"
Enclosure 13. Cybersecurity in the Defense Acquisition System	 DoDI 5000.83, "Tehcnology and Program Protection to Maintain Technological Advantage" DoDI 5000.90, "Cybersecurity for Acquisition Decision Authorities and Program Managers"

4. <u>POLICY</u>. The overarching management principles and mandatory policies that govern the Defense Acquisition System are described in Reference (a). This instruction and the associated new policy listed in Table 1 provide the detailed procedures that guide the operation of the system.

5. RESPONSIBILITIES

- a. <u>Defense Acquisition Executive (DAE)</u>. The DAE is the Under Secretary of Defense for Acquisition, Technology, and Logistics (USD(AT&L)). The DAE will act as the MDA for Major Defense Acquisition Programs (MDAPs) and Major Automated Information System (MAIS) programs. In accordance with DoDI 5000.85 (Reference (dc)), the DAE may delegate authority to act as the MDA to the head of a DoD Component, who may further delegate the authority to the Component Acquisition Executive (CAE). The DAE may also delegate MDA authority to another OSD official as the DAE considers appropriate.
- b. <u>MDA</u>. The MDA will establish procedures for assigned programs using this instruction as guidance. MDAs should limit mandatory procedures applicable to all assigned programs so as to not exceed the requirements for MDAPs or MAIS programs and other acquisition programs governed by this instruction or DoDD 5000.01 (Reference (a)). MDAs should tailor regulatory procedures in the document consistent with sound business practice and the risks associated with the product being acquired.

- c. <u>Heads of the DoD Components</u>. The DoD Component Head will implement the procedures in this instruction and Reference (a). Component-required procedures will not exceed those specified in this instruction. When necessary, waivers or requests for exceptions to the provisions of this instruction will be submitted to the DAE, the DoD Chief Information Officer (DoD CIO), the Director, Operational Test and Evaluation (DOT&E), or the Director, Cost Assessment and Program Evaluation (DCAPE), via the CAE. Statutory requirements cannot be waived unless the statute permits.
- d. <u>Secretaries of the Military Departments</u>. In addition to the responsibilities described in paragraph 5.c., the Secretary of the Military Department acquiring an MDAP will represent the customer (i.e., the DoD Component(s) fielding the system). The Secretary concerned, in coordination with the Chief of the Military Service fielding the system, will balance resources against priorities and ensure appropriate trade-offs are made among cost, schedule, technical feasibility, and performance throughout the life of the program.
- e. <u>Chiefs of the Military Services</u>. The Chiefs of the Military Services fielding MDAPs will represent the customer and, with the Secretary of the Military Department acquiring the MDAP, balance resources against priorities and ensure that appropriate trade-offs are made among cost, schedule, technical feasibility, and performance throughout the life of the program. The Chief concerned will advise the MDA on trade-offs before Milestones A and B. As part of the MDA's Written Determination before Milestone A and Certification and Determination before Milestone B (these milestone information requirements are detailed in Reference (dc)), the MDA must determine that the Chief and the Secretary concur with the cost, schedule, technical feasibility, and performance trade-offs that have been made.
- 6. <u>PROCEDURES</u>. This section was removed through formal coordination and approval of Reference (dc); necessary information can be found in that issuance.
- 7. <u>RELEASABILITY</u>. **Cleared for public release**. This instruction is available on the Directives Division Website at https://www.esd.whs.mil/DD/.
- 8. <u>SUMMARY OF CHANGE 10</u>. This change removes Enclosure 13, which has been incorporated and cancelled by DoDI 5000.90 (Reference (dh)).
- 9. <u>EFFECTIVE DATE</u>. This instruction is effective January 7, 2015.

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Under Secretary of Defense for

J. Michael Gilmore

Director, Operational

Terry Halvorsen

Acting DoD Chief

Acquisition, Technology, and Logistics

Test and Evaluation

Information Officer

References

Enclosures

- 1. Acquisition Program Categories and Compliance Requirements
- 2. Program Management
- 3. Systems Engineering
- 4. Developmental Test and Evaluation (DT&E)
- 5. Operational and Live Fire Test and Evaluation (OT&E and LFT&E)
- 6. Life-Cycle Sustainment
- 7. Human Systems Integration (HSI)
- 8. Affordability Analysis and Investment Constraints
- 9. Analysis of Alternatives (AoA)
- 10. Cost Estimating and Reporting
- 11. Requirements Applicable to All Programs Containing Information Technology (IT)
- 12. Urgent Capability Acquisition
- 13. Cybersecurity in the Defense Acquisition System

Glossary

TABLE OF CONTENTS

PURPOSE	1
APPLICABILITY	1
TRANSITION PLAN	1
POLICY	3
RESPONSIBILITIES	3
Defense Acquisition Executive (DAE)	
MDA	
Heads of the DoD Components	4
Secretaries of the Military Departments	
Chiefs of the Military Services	
PROCEDURES	
RELEASABILITY	
SUMMARY OF CHANGE 10	
EFFECTIVE DATE	
REFERENCES	8
ENCLOSURE 1: ACQUISITION PROGRAM CATEGORIES AND COMPLIANCE	
REQUIREMENTS	13
ENCLOSURE 2: PROGRAM MANAGEMENT	14
ENCLOSURE 3: SYSTEMS ENGINEERING	15
Extended the state of the service of	
ENCLOSURE 4: DEVELOPMENTAL TEST AND EVALUATION (DT&E)	16
ENCEDOSCILE II DE VELOTIVIET TEST TIND E VILEOTITION (B 164)	10
ENCLOSURE 5: OPERATIONAL AND LIVE FIRE TEST AND EVALUATION	17
ENCEOSCIE 3. OI EMITTORIE TROP ETVET TROP EVILENTION	1 /
ENCLOSURE 6: LIFE-CYCLE SUSTAINMENT	10
ENCLOSURE 0. EII E-CTCLE SUSTAINWILINT	10
ENCLOSURE 7: HUMAN SYSTEMS INTEGRATION (HSI)	10
PURPOSE	
GENERAL	
HSI PLANNING	
Human Factors Engineering	
Personnel	
Habitability	
Manpower	
Training	
Safety and Occupational HealthForce Protection and Survivability	20
TURA LIUGUIUI AIU AUTVIVADIIIV	

6

ENCLOSURE 8: AFFORDABILITY ANALYSIS AND INVESTMENT CONSTRAINTS	. 21
ENCLOSURE 9: ANALYSIS OF ALTERNATIVES (AOA)	. 22
ENCLOSURE 10: COST ESTIMATING AND REPORTING	. 23
ENCLOSURE 11: REQUIREMENTS APPLICABLE TO ALL PROGRAMS CONTAINING INFORMATION TECHNOLOGY (IT)	
ENCLOSURE 12: URGENT CAPABILITY ACQUISITION	. 25
ENCLOSURE 13: CYBERSECURITY IN THE DEFENSE ACQUISITION SYSTEMPROGRAM MANAGER RESPONSIBILITIES	
GLOSSARY	. 34

REFERENCES

- (a) DoD Directive 5000.01, "The Defense Acquisition System," September 9, 2020
- (b) Interim DoD Instruction 5000.02, "Operation of the Defense Acquisition System," November 26, 2013 (hereby cancelled)
- (c) Office of Management and Budget Circular A-11, "Preparing, Submitting, and Executing the Budget," current edition
- (d) Public Law 114-92, "National Defense Authorization Act for Fiscal Year 2016"
- (e) Chairman of the Joint Chiefs of Staff Instruction 3170.01I, "Joint Capabilities Integration and Development System," January 23, 2015
- (f) Assistant Secretary of Defense for Research and Engineering Guide, "Technology Readiness Assessment (TRA) Guidance," April 2011, as amended¹
- (g) Public Law 110-417, "The Duncan Hunter National Defense Authorization Act for Fiscal Year 2009," October 14, 2008
- (h) Title 10, United States Code
- (i) DoD Instruction 5000.74, "Defense Acquisition of Services," January 5, 2016
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- (n) Public Law 101-576, "Chief Financial Officers Act of 1990," November 15, 1990
- (o) Statement of Federal Financial Accounting Standards (SFFAS) No. 23, "Eliminating the Category National Defense Property, Plant, and Equipment," May 8, 2003
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- (t) Defense Intelligence Agency Directive 5000.200, "Intelligence Threat Support for Major Defense Acquisition Programs," September 19, 2016³
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- (v) Public Law 112-81, "National Defense Authorization Act for Fiscal Year 2012," December 31, 2011

¹ https://acc.dau.mil/CommunityBrowser.aspx?id=18545

² https://www.intelink.gov/inteldocs/action.php?kt_path_info=ktcore.actions.document.view&fDocumentId= 1517681

³ This is a controlled document. The office of primary responsibility is the Defense Intelligence Agency, (202) 231-0678

⁴ This is a controlled document. The office of primary responsibility is the Defense Intelligence Agency, (202) 231-0678

- (w) DoD Instruction 5000.73, "Cost Analysis Guidance and Procedures," March 13, 2020
- (x) DoD Instruction 8500.01, "Cybersecurity," March 14, 2014
- (y) DoD Instruction 7041.03, "Economic Analysis for Decision-Making," September 9, 2015
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- (ac) DoD Instruction 8320.02, "Sharing Data, Information, and Information Technology (IT) Services in the Department of Defense," August 5, 2013
- (ad) DoD Instruction 8410.03, "Network Management (NM)," August 29, 2012, as amended
- (ae) DoD Instruction 8320.04, "Item Unique Identification (IUID) Standards for Tangible Personal Property," September 3, 2015
- (af) DoD Directive 5250.01, "Management of Intelligence Mission Data (IMD) in DoD Acquisition," January 22, 2013
- (ag) Section 4321, Title 42, United States Code
- (ah) Executive Order 12114, "Environmental Effects Abroad of Major Federal Actions," January 4, 1979
- (ai) DoD Instruction 5200.39, "Critical Program Information (CPI) Identification and Protection Within Research, Development, Test, and Evaluation (RDT&E)," May 28, 2015
- (aj) DoD Instruction 5200.44, "Protection of Mission Critical Functions to Achieve Trusted Systems and Networks (TSN)," November 5, 2012, as amended
- (ak) Federal Acquisition Regulation, current edition
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- (am) DoD Instruction 4650.01, "Policy and Procedures for Management and Use of the Electromagnetic Spectrum," January 9, 2009
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- (ap) DoD Instruction 4630.09, "Wireless Communications Waveform Development and Management," July 15, 2015
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- (ar) Memorandum of Agreement between the Director of National Intelligence and the Secretary of Defense concerning the Management of Acquisition Programs Executed at the Department of Defense Intelligence Community Elements, March 25, 2008⁶
- (as) Intelligence Community Policy Guidance 801.1, "Acquisition," July 12, 2007
- (at) DoD 5000.04-M-1, "Cost and Software Data Reporting (CSDR) Manual," November 4, 2011
- (au) American National Standards Institute (ANSI)/Electronic Industries Alliance (EIA) 748, March 2013

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⁵ This is a controlled document. The office of primary responsibility is Under Secretary of Defense (Intelligence), USDI.Pubs@osd.mil. Access requires a DoD PKI Certificate.

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- (bc) DoD 5015.02-STD, "Electronic Records Management Software Applications Design Criteria Standard," April 25, 2007
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- (cj) Integrated Program Management Report Implementation Guide, February 5, 2016¹⁴
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- (co) DoD Instruction 5205.13, "Defense Industrial Base (DIB) Cyber Security/Information Assurance (CS/IA) Activities," January 29, 2010
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- (cz) DoD Instruction 5025.01, "DoD Issuances Program," August 1. 2016, as amended
- (da) DoD Instruction 5000.82, "Acquisition of Information Technology (IT)," April 21, 2020
- (db) DoD Instruction 5000.83, "Technology and Program Protection to Maintain Technological Advantage," July 20, 2020
- (dc) DoD Instruction 5000.85, "Major Capability Acquisition," August 6, 2020
- (de) DoD Instruction 5000.81, "Urgent Capability Acquisition," December 31, 2019
- (df) DoD Instruction 5000.88, "Engineering of Defense Systems," November 18, 2020
- (dg) DoD Instruction 5000.89, "Test and Evaluation," November 19, 2020
- (dh) DoD Instruction 5000.90, "Cybersecurity and Aquisition Decision Authorities and Program Managers" December 31, 2020

ACQUISITION PROGRAM CATEGORIES AND COMPLIANCE REQUIREMENTS

Enclosure 1 was removed through formal coordination and approval of Reference (dc); necessary information can be found in that issuance.

PROGRAM MANAGEMENT

Enclosure 2 was removed through formal coordination and approval of Reference (dc); necessary information can be found in that issuance.

SYSTEMS ENGINEERING

Enclosure 3 was removed through formal coordination and approval of Reference (df); necessary information can be found in that issuance.

DEVELOPMENTAL TEST AND EVALUATION (DT&E)

Enclosure 4 was removed through formal coordination and approval of Reference (dg); necessary information can be found in that issuance.

OPERATIONAL AND LIVE FIRE TEST AND EVALUATION (OT&E AND LFT&E)

Enclosure 5 was removed through formal coordination and approval of Reference (dg); necessary information can be found in that issuance.

LIFE-CYCLE SUSTAINMENT

Enclosure 6 was removed through formal coordination and approval of Reference (dc); necessary information can be found in that issuance.

HUMAN SYSTEMS INTEGRATION (HSI)

- 1. <u>PURPOSE</u>. This enclosure describes the HSI policy and procedure applicable to defense acquisition programs.
- 2. <u>GENERAL</u>. The Program Manager will plan for and implement HSI beginning early in the acquisition process and throughout the product life cycle. The goal will be to optimize total system performance and total ownership costs, while ensuring that the system is designed, operated, and maintained to effectively provide the user with the ability to complete their mission. Program Managers will ensure that the DoD Component HSI staff is aware of and engaged with WIPTs tasked with the development and review of program planning documents that reflect HSI planning and inform program decisions.
- 3. <u>HSI PLANNING</u>. HSI planning and implementation will address the following seven HSI domains recognized by the DoD:
- a. <u>Human Factors Engineering</u>. The Program Manager will take steps (e.g., contract deliverables and government/contractor integrated product teams) to ensure ergonomics, human factors engineering, and cognitive engineering is employed during systems engineering over the life of the program to provide for effective human-machine interfaces and to meet HSI requirements. System designs will minimize or eliminate system characteristics that require excessive cognitive, physical, or sensory skills; entail extensive training or workload-intensive tasks; result in mission-critical errors; or produce safety or health hazards.
- b. <u>Personnel</u>. The Program Manager will, in conjunction with designated DoD Component HSI staff, define the human performance characteristics of the user population based on the system description, projected characteristics of target occupational specialties, and recruitment and retention trends. To the extent possible, systems will not require special cognitive, physical, or sensory skills beyond that found in the specified user population. For those programs that have skill requirements that exceed the knowledge, skills, and abilities of current military occupational specialties, or that require additional skill indicators or hard-to-fill military occupational specialties, the Program Manager will consult with personnel communities to mitigate readiness, personnel tempo, and funding issues.
- c. <u>Habitability</u>. The Program Manager will, in conjunction with designated DoD Component staff, establish requirements for the physical environment (e.g., adequate space and temperature control) and, if appropriate, requirements for personnel services (e.g., medical and mess) and living conditions (e.g., berthing and personal hygiene) for conditions that have a direct impact on meeting or sustaining system performance or that have such an adverse impact on quality of life and morale that recruitment or retention is degraded.

- d. <u>Manpower</u>. In advance of contracting for operational support services, the Program Manager will, in conjunction with the designated DoD Component manpower authority, determine the most efficient and cost-effective mix of DoD manpower and contract support. The mix of military, DoD civilian, and contract support necessary to operate, maintain, and support (to include providing training) the system will be determined based on the manpower mix criteria (see DoD Instruction 1100.22 (Reference (bm))). Manpower mix data will be reported to cost analysts and factored into the preparation of independent cost estimates and DoD Component cost estimates. Economic analyses used to support workforce mix decisions will use costing tools, to include DoD Instruction 7041.04 (Reference (bn)), that account for fully loaded costs (i.e., all variable and fixed costs, compensation and non-compensation costs, current and deferred benefits, and cash and in-kind benefits) approved by the DoD Component manpower authority.
- e. <u>Training</u>. The Program Manager will, in conjunction with designated DoD Component staff, develop options for individual, collective, and joint training for operators, maintenance and support personnel, and, where appropriate, base training decisions on training effectiveness evaluations (which can be integrated with other test and evaluation). The major tasks identified in the job task analysis, training device document coordinating paper and training plans will support a comprehensive analysis with special emphasis on options that enhance user capabilities, maintain skill proficiencies, and reduce individual and collective training costs. The Program Manager will develop training system plans that consider the use of new learning techniques, simulation technology, embedded training and distributed learning, and instrumentation systems that provide "anytime, anyplace" training and reduce the demand on the training establishment. Where cost effective and practical, the Program Manager will use simulation-supported embedded training, and the training systems will fully support and mirror the interoperability of the operational system in accordance with DoD Directive 1322.18 (Reference (bo)).
- f. <u>Safety and Occupational Health</u>. The Program Manager will ensure that appropriate HSI and environmental, safety, and occupational health efforts are integrated across disciplines and into systems engineering to determine system design characteristics that can minimize the risks of acute or chronic illness, disability, or death or injury to operators and maintainers; and enhance job performance and productivity of the personnel who operate, maintain, or support the system.
- g. <u>Force Protection and Survivability</u>. The Program Manager will assess risks to personnel and address, in terms of system design, protection from direct threat events and accidents (such as chemical, biological, and nuclear threats). Design consideration will include primary and secondary effects from these events and consider any special equipment necessary for egress and survivability.

AFFORDABILITY ANALYSIS AND INVESTMENT CONSTRAINTS

Enclosure 8 was removed through formal coordination and approval of Reference (dc); necessary information can be found in that issuance.

ANALYSIS OF ALTERNATIVES (AOA)

Enclosure 9 was removed through formal coordination. Necessary information can be found in Reference (bp) or in the Defense Acquisition Guidance.

COST ESTIMATING AND REPORTING

Enclosure 10 was removed through formal coordination. Necessary information is available in Reference (w).

REQUIREMENTS APPLICABLE TO ALL PROGRAMS CONTAINING INFORMATION TECHNOLOGY (IT)

Enclosure 11 was removed through formal coordination and approval of Reference (da); necessary information can be found in that issuance.

URGENT CAPABILITY ACQUISITION

Enclosure 12 was removed through formal coordination and approval of Reference (de); necessary information can be found in that issuance.

CYBERSECURITY IN THE DEFENSE ACQUISITION SYSTEM

Enclosure 13 was removed through formal coordination and approval of References (db) and (dh); necessary information can be found in those issuances.

GLOSSARY

A complete Glossary of acquisition terms and common acquisition acronyms is maintained on the Defense Acquisition University website (Reference (ce)). The DAU Glossary (Reference (cf)) may be found at https://dap.dau.mil/glossary/Pages/Default.aspx.