Department of Defense
DIRECTIVE

SUBJECT: DoD Command and Control Enabling Capabilities

References: See Enclosure 1

1. <u>PURPOSE</u>. This directive:

   a. Reissues, retitles, and renumbers DoD Directive (DoDD) 5100.30 (Reference (a)) to establish DoD command and control (C2) enabling capability policy and assign responsibilities under the authority of Title 10, United States Code (U.S.C.) (Reference (b)), DoD Instruction (DoDI) O-3710.02 (Reference (c)), and DoDD 5144.02 (Reference (d)) for funding, managing, developing, acquiring, operating, maintaining, evaluating, and improving DoD C2 information technology (IT) and National Security Systems enabling capabilities.

   b. Updates and reestablishes the functional and organizational relationships among all DoD elements involved in providing DoD C2 enabling capabilities and directs necessary operational links to non-DoD organizations.

   c. Assigns the responsibilities for DoD C2 enabling capability oversight and management; assigns responsibilities to the appropriate DoD Component to review, prioritize, and direct DoD programs; identifies and directs establishment of appropriate structures and processes to execute Secretary of Defense-directed compliance oversight responsibilities.

2. <u>APPLICABILITY</u>. This directive applies to OSD, the Military Departments, the Office of the Chairman of the Joint Chiefs of Staff (CJCS) 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 directive as the "DoD Components").

3. <u>POLICY</u>. It is DoD policy that:

   a. DoD C2 enabling capabilities extend across all warfighting decision-making levels, and support:

(1) Requirements of the President, the Secretary of Defense, the CJCS, the Combatant Commanders (CCDRs), other senior leaders, and warfighters.

(2) The successful execution of the Unified Command Plan (Reference (e)).

b. DoD C2 information integration and decision support services will:

(1) Ensure enhanced information sharing, collaboration, and situational awareness while maintaining cyber security and information assurance standards in accordance with DoDI 8500.01 (Reference (f)), DoDI 8320.02 (Reference (g)), DoDI 8330.01 (Reference (h)), and DoDI 8530.01 (Reference (i)).

(2) Be managed using integrated strategic planning, integrated architectures, standards, measures of performance, risk assessment and management, transition plans, and portfolio management in accordance with DoDD 8115.01 (Reference (j)).

(3) Support a seamless DoD C2 enabling capability that predictably degrades across the threat spectrum.

(4) Ensure the integration of DoD C2 enabling capabilities throughout the DoD information enterprise, and among federal department and agency systems directly supporting senior leaders.

(5) Support the integration of DoD C2 enabling capabilities with mission partners.

(6) Ensure DoD C2 enabling capabilities will be developed in such a manner as to maximize re-use across DoD Components, minimize redundant development efforts, and minimize cost to the DoD.

c. A DoD senior executive-level body under the authority and direction of the DoD Chief Information Officer (DoD CIO) Executive Board will provide governance and strategic oversight to develop recommendations on DoD C2 plans, policies and procedures, and initiate a review of issues, programs, initiatives, and systems in accordance with Deputy Secretary of Defense Memorandum (Reference (k)).

d. DoD C2 oversight and management processes will ensure that integrated, flexible, interoperable, and adaptable DoD C2 enabling capabilities are developed. All C2 management and governance structures developed within DoD must support, and be consistent with, the oversight and management structure established by DoD CIO in conjunction with this directive.

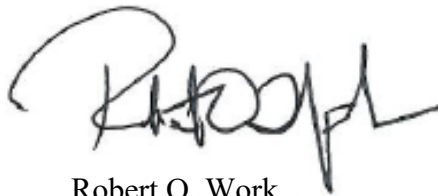4. RESPONSIBILITIES. See Enclosure 2.

5. RELEASABILITY. **Cleared for public release**. This directive is available on the Directives Division Website at https://www.esd.whs.mil/DD/.

6. SUMMARY OF CHANGE 2. The changes to this issuance:

    a. Update the responsibilities formerly delegated to the Under Secretary of Defense for Acquisition, Technology, and Logistics in accordance with DoDDs 5135.02 and 5137.02 (References (x) and (y)).

    b. Update organizational titles and references for currency.

7. EFFECTIVE DATE. This directive is effective October 22, 2014.

Robert O. Work
Deputy Secretary of Defense

Enclosures
    1. References
    2. Responsibilities
Glossary

ENCLOSURE 1

REFERENCES

(a)   DoD Directive 5100.30, "Department of Defense (DoD) Command and Control (C2)," January 5, 2006 (hereby cancelled)
(b)   Title 10, United States Code
(c)   DoD Instruction O-3710.02, "Secretary of Defense Communications (SDC)," October 20, 2014
(d)   DoD Directive 5144.02, "DoD Chief Information Officer (DoD CIO)," November 21, 2014, as amended
(e)   Unified Command Plan 2011, April 6, 2011, as amended[1]
(f)   DoD Instruction 8500.01, "Cybersecurity," March 14, 2014, as amended
(g)   DoD Instruction 8320.02, "Sharing Data, Information, and Information Technology (IT) Services in the Department of Defense," August 5, 2013, as amended
(h)   DoD Instruction 8330.01, "Interoperability of Information Technology (IT), Including National Security Systems (NSS)," May 21, 2014, as amended
(i)   DoD Instruction 8530.01, "Cyber Security Activities Support to DoD Information Network Operations," March 7, 2016, as amended
(j)   DoD Directive 8115.01, "Information Technology Portfolio Management," October 10, 2005
(k)   Deputy Secretary of Defense Memorandum, "Department of Defense Chief Information Officer Executive Board Charter," February 12, 2012
(l)   Section 3534 of Title 44, United States Code
(m) Chairman of the Joint Chiefs of Staff Instruction 5123.01I, "Charter of the Joint Requirements Oversight Council and Implementation of the Joint Capabilities Integration and Development System," October 30, 2021
(n)   DoD Directive S-3710.01, "(U) National Leadership Command Capability," May 27, 2015
(o)   DoD Instruction 5000.88, "Engineering of Defense Systems," November 18, 2020
(p)   DoD Directive 5000.01, "The Defense Acquisition System," ~~May 12, 2003~~ September 9, 2020
(q)   DoD Directive 5141.02, "Director of Operational Test and Evaluation (DOT&E)," February 2, 2009
(r)   DoD Directive 3020.26, "DoD Continuity Policy," February 14, 2018
(s)   DoD Directive 5111.01, "Under Secretary of Defense for Policy (USD(P))," June 23, 2020
(t)   DoD Directive 5000.71, "Rapid Fulfillment of Combatant Commander Urgent Operational Needs," August 24, 2012, as amended
(u)   DoD Directive S-5210.81, "(U) United States Nuclear Weapons Command and Control, Safety, and Security," April 24, 2017
(v)   Office of the Chairman of the Joint Chiefs of Staff, "DoD Dictionary of Military and Associated Terms," current edition
(w)   DoD Directive 8000.01, "Management of the Department of Defense Information Enterprise (DoD IE)," March 17, 2016, as amended

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[1] Available via the SIPRNET

(x) DoD Directive 5135.02, "Under Secretary of Defense for Acquisition and Sustainment (USD(A&S))," July 15, 2020

(y) DoD Directive 5137.02, "Under Secretary of Defense for Research and Engineering (USD(R&E))," July 15, 2020

(z) DoD Instruction 5000.02, "Operation of the Adaptive Acquisition Framework," January 23, 2020

ENCLOSURE 2

RESPONSIBILITIES

1. <u>DoD CIO</u>. The DoD CIO:

    a. Serves as the Principal Staff Assistant to the Secretary of Defense for all matters pertaining to the DoD information enterprise that supports DoD C2 enabling capabilities.

    b. Provides policy development, strategic planning, resource management, fiscal and program evaluation, and oversight for DoD C2 enabling capabilities.

    c. Develops and implements an oversight and management structure for DoD C2 enabling capabilities.

    d. Oversees DoD C2 enabling capabilities, including:

        (1) DoD Component policies and implementing instructions specific to DoD C2; coordinates on all DoD C2 planning, programming, and budgeting recommendations made to the Secretary of Defense, consistent with section 3534 of Title 44, U.S.C. (Reference (l)).

        (2) The integration of DoD C2 services, systems, applications, standards, and architectures in collaboration with the Under Secretary of Defense for Acquisition and Sustainment (USD(A&S)); the Under Secretary of Defense for Policy (USD(P)); the Under Secretary of Defense for Intelligence and Security (USD(I&S)); the Under Secretary of Defense for Research and Engineering (USD(R&E)); the CJCS; CCDRs; and Secretaries of the Military Departments.

        (3) DoD C2 plans, programs, and budgets that support development of materiel and non-materiel solutions for joint military capability requirements that have been validated in accordance with CJCS Instruction 5123.01I (Reference (m)) and Presidentially directed DoD C2 enabling capabilities.

        (4) The development and maintenance of DoD C2 reliability, survivability, security, and accessibility standards produced by the DoD Components.

        (5) Fixed, mobile, and airborne resources that support Presidential requirements to ensure they are integrated with DoD C2 enabling capabilities, in accordance with DoDD S-3710.01 (Reference (n))

    e. Ensures information sharing regarding DoD C2 enabling capabilities with mission partners.

    f. Develops overarching architectures and documentation that describe the specifications, data format, reliability requirements, and metrics necessary to promote DoD C2 enabling

capability strategies.

g. Chairs a senior executive-level body under the authority and direction of the DoD CIO Executive Board to provide governance and strategic oversight to address DoD C2 enabling capability issues.

h. Periodically updates and maintains the DoD C2 Strategic Plan and DoD C2 Implementation Plan in coordination with the USD(A&S); the USD(P), the USD(I&S); the USD(R&E); the CJCS; CCDRs; and Secretaries of the Military Departments.

2. <u>DIRECTOR, DEFENSE INFORMATION SYSTEMS AGENCY (DISA)</u>. Under the authority, direction, and control of the DoD CIO and in addition to the responsibilities in Paragraph 12 of this enclosure, the Director, DISA:

a. Leads systems engineering support, as identified in DoDIs 5000.88 and 5000.02 (References (o) and (z)), with input from the DoD Components, to sustain and modernize the DoD information enterprise that supports DoD C2 enabling capabilities.

b. Reviews and assesses DoD C2 capabilities to ensure system integration, interoperability, and standardization among the DoD Components, consistent with OSD and Joint Staff policy (e.g., Reference (h)), and with U.S. Government (USG) agencies.

c. Supports DoD C2 matters through plans, programs, and budgets to ensure the Department of Defense information network (DoDIN) and DoDIN Enterprise Services are capable of supporting DoD C2 requirements.

3. <u>USD(A&S)</u>. The USD(<u>A&S</u>):

a. Ensures acquisition of DoD C2 enabling capabilities conform with the policies and practices of the DoD Acquisition System pursuant to DoDD 5000.01 (Reference (p)).

b. Ensures acquisition activities related to DoD C2 programs that effectively support the Combatant Commands and Military Services in coordination with the DoD CIO and the CJCS.

c. Supports the periodic update of the DoD C2 Strategic Plan and DoD C2 Implementation Plan.

d. In coordination with the DoD CIO and the USD(R&E), ensures DoD C2 system acquisition enables the integration of DoD C2 services, capabilities, standards, and architectures.

e. Performs duties as the Principal Staff Assistant and capability portfolio manager for the nuclear command control and communications enterprise, with responsibility for nuclear command control and communications acquisition, procurement, modernization, sustainment, interoperability, and resources in accordance with Reference (x).

4. <u>DIRECTOR, DEFENSE THREAT REDUCTION AGENCY (DTRA)</u>. Under the authority, direction, and control of the USD(A&S), through the Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense Programs, and in addition to the responsibilities in Paragraph 12 of this enclosure, the Director, DTRA:

   a. Provides recommendations to the Secretary of Defense, DoD CIO, USD(A&S), and the CJCS for assessing vulnerabilities and enhancing the survivability and operability of DoD C2 resources and systems throughout the threat spectrum, with particular focus on the effects of chemical, biological, radiological, nuclear, and high yield explosive (CBRNE) weapons.

   b. Maintains and provides modeling, simulation, and testing capability to predict and assess the consequences of attacks using CBRNE weapons in warfighting and asymmetrical terrorist threat scenarios.

   c. Provides an assessment program on critical DoD C2 enabling capabilities, under the direction of USD(A&S) and DoD CIO, that continuously addresses the spectrum of natural hazards and hostile threats and provides the results of the assessment to identify vulnerabilities of critical missions and recommends solutions to mitigate them.

5. <u>USD(R&E)</u>. The USD(R&E):

   a. In coordination with the DoD CIO and the USD(A&S), ensures DoD C2 enabling capability related research and development provides for the integration of DoD C2 services, capabilities, standards, and architectures.

   b. Develops and evolves long-term command, control, and communication network architectures; initiates, manages, and coordinates technology maturation; and ensures suitability of the innovation base to support DoD C2 enabling capabilities.

   c. Coordinates with the Secretaries of the Military Departments, DoD CIO, CJCS, and USD(A&S) to develop viable transition paths for research, development, and engineering initiatives that support DoD C2 enabling capabilities.

   d. In coordination with the DoD CIO and the DoD Components, oversees developmental test and evaluation, systems engineering, and technology readiness assessments of designated DoD C2 systems and ensures that reviews are timely and effectively implemented.

6. <u>DIRECTOR, MISSILE DEFENSE AGENCY (MDA)</u>. Under the authority, direction, and control of the USD(R&E) and in addition to the responsibilities in Paragraph 12 of this enclosure, the Director, MDA, ensures missile defense C2 systems, processes, and procedures are integrated into DoD C2.

7. <u>DIRECTOR, OPERATIONAL TEST AND EVALUATION (DOT&E)</u>. The DOT&E:

    a. Oversees and approves operational testing related to DoD C2 systems acquisition.

    b. Oversees and manages efforts to improve interoperability and information assurance in the DoD through the operational evaluation of the systems under oversight and of exercises conducted by the Combatant Commands and the Military Departments in accordance with DoDD 5141.02 (Reference (q)).

8. <u>USD(P)</u>. The USD(P):

    a. Ensures DoD C2 supports overarching continuity of operations (COOP) and continuity of government (COG) policy and requirements in accordance with DoDD 3020.26 (Reference (r)), and that DoD C2 policies and procedures will support and complement current and future department and agency COOP and COG processes across the DoD Component community and other federal departments and agencies.

    b. Supports the periodic update of the DoD C2 Strategic Plan and DoD C2 Implementation Plan.

    c. Coordinates with DoD CIO on incorporation of DoD C2 enabling capabilities into the planning phase of the DoD Planning, Programming, and Budgeting System in accordance with DoDD 5111.01 (Reference (s)).

9. <u>UNDER SECRETARY OF DEFENSE (COMPTROLLER)/CHIEF FINANCIAL OFFICER, DEPARTMENT OF DEFENSE (USD(C)/CFO)</u>. The USD(C)/CFO reviews and evaluates DoD Component plans, programs, and budget submissions for adherence to established priorities, policies, procedures, standards, and resource guidance supporting DoD C2.

10. <u>USD(I&S)</u>. The USD(I&S):

    a. Ensures DoD intelligence, surveillance, and reconnaissance (ISR) policies, architectures, and functional capabilities are integrated with DoD C2 services and capabilities.

    b. Coordinates with the DoD CIO to ensure that current and future DoD ISR developments are consistent with net-enabled operations across the DoDIN and are interoperable to the level necessary to meet mission support requirements.

    c. Assesses the performance and support of Defense intelligence activities relevant to DoD C2 and works with the DoD CIO to ensure intelligence assessments are integrated into DoD C2 decision-support tools and processes.

d. Supports the periodic update of the DoD C2 Strategic Plan and DoD C2 Implementation Plan.

11. <u>DIRECTOR, DEFENSE INTELLIGENCE AGENCY (DIA)</u>. Under the authority, direction, and control of the USD(I&S) and in addition to the responsibilities in Paragraph 12 of this enclosure, the Director, DIA, develops and updates threat assessments used to determine DoD C2 survivability and reliability, deployments, deployment training scenarios, and system requirements.

12. <u>DoD COMPONENT HEADS</u>. The DoD Component heads:

a. Support DoD C2 by ensuring acquired systems are compliant with data-centric strategies, policies, and guidance, and provide survivable, reliable support for senior USG officials and the U.S. military, as well as the suitability of solutions to meet operational requirements.

b. Support DoD C2 through plans, programs, and budgets and execute programs that will develop materiel solutions for Joint Capabilities Integration and Development System-approved DoD C2 enabling capabilities.

c. Help the Director, DISA, provide systems engineering support for DoD C2 enabling capabilities.

d. Conduct operational evaluations of DoD C2 systems, equipment, and facilities in support of the geographic and functional commands.

e. Support the periodic update of the DoD C2 Strategic Plan and DoD C2 Implementation Plan.

f. Coordinate policies and implementing instructions specific to DoD C2 with the DoD CIO with regard to capabilities planning, programming, and budgeting recommendations.

g. Ensure that for DoD C2 enabling capabilities associated with urgent operational needs, as described in Reference (m), all oversight, management structures, reviews, assessments, support, assistance, and other actions described in this directive are performed in a manner consistent with the policy established by the DoD, including policy established in DoDD 5000.71 (Reference (t)).

13. <u>CJCS</u>. In addition to the responsibilities in Paragraph 12 of this enclosure and in coordination with the other DoD Component heads, the CJCS:

a. Provides advice and assessments on DoD C2 enabling capability needs and establishes the operational requirements for C2 capabilities, systems, and services, as well as the suitability of solutions to meet operational expectations.

    b. Defines the DoD C2 enabling capabilities required to support the full range of operations.

    c. Operates the National Military Command System (NMCS) to meet the needs of the President, the Secretary of Defense, and the global and regional warfighters. Defines the Component C2 capabilities of the NMCS, establishes operational policies, and ensures their compliance in accordance with Reference (n), DoDD S-5210.81 (Reference (u)), and CJCS guidance.

    d. Identifies specific DoD C2 systems, equipment, and facilities subject to survivability and reliability design standards.

    e. Monitors the development and readiness of DoD C2 capabilities compliance with established survivability, reliability, security, and accessibility standards.

    f. Confirms and supports capability-based requirements for DoD C2 through the capabilities-based assessment process.

    g. Supports the periodic update of the DoD C2 Strategic Plan and DoD C2 Implementation Plan.

    h. Participates in reviews and advises the OSD on all DoD C2 policy matters.

    i. On behalf of the warfighter, integrates and assesses DoD C2 enabling capabilities, data strategies and standards, architectures, operational concepts, and mission partner operations.

14. CCDRs. In addition to the responsibilities in Paragraph 12 of this enclosure, the CCDRs support the CJCS in establishing requirements for sharing DoD C2 information and data with mission partner networks.

15. COMMANDER, UNITED STATES STRATEGIC COMMAND (USSTRATCOM). In addition to the responsibilities in Paragraphs 12 and 14 of this enclosure and in coordination with the CJCS, the Commander, USSTRATCOM, ensures that USSTRATCOM mission responsibilities are properly integrated into plans, architectures, and processes that constitute and sustain DoD C2 capabilities, consistent with Reference (e).

GLOSSARY

PART I. ABBREVIATIONS AND ACRONYMS

C2	command and control
CBRNE	chemical, biological, radiological, nuclear, and high yield explosives
CCDR	Combatant Commander
CJCS	Chairman of the Joint Chiefs of Staff
COG	continuity of government
COOP	continuity of operations
DIA	Defense Intelligence Agency
DISA	Defense Information Systems Agency
DoD CIO	DoD Chief Information Officer
DoDD	DoD directive
DoDI	DoD instruction
DoDIN	Department of Defense information network
DOT&E	Director, Operational Test and Evaluation
DTRA	Defense Threat Reduction Agency
ISR	intelligence, surveillance, and reconnaissance
IT	information technology
MDA	Missile Defense Agency
NMCS	National Military Command System
U.S.C.	United States Code
USD(A&S)	Under Secretary of Defense for Acquisition and Sustainment
USD(C)/CFO	Under Secretary of Defense (Comptroller)/Chief Financial Officer, DoD
USD(I&S)	Under Secretary of Defense for Intelligence and Security
USD(P)	Under Secretary of Defense for Policy
USD(R&E)	Under Secretary of Defense for Research and Engineering
USG	U. S. Government
USSTRATCOM	United States Strategic Command

PART II. DEFINITIONS

Unless otherwise noted, these terms and their definitions are for purposes of this directive.

C2. Defined in the DoD Dictionary of Military and Associated Terms (Reference (v)).

<u>DoD C2 enabling capabilities</u>. Comprised of information integration and decision-support services, systems, processes, and related infrastructure that enable the exercise of authority and direction over assigned and attached forces. These capabilities enable commanders and decision makers to rapidly evaluate, select, and execute effective courses of action in accomplishing the mission.

<u>DoDIN</u>. Defined in Reference (v).

<u>mission partners</u>. Defined in DoDD 8000.01 (Reference (w)).

<u>urgent operational need</u>. Defined in Reference (t).