

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE OF 2021 AMENDMENT

Amendment by Pub. L. 117-81 applicable as if included in the enactment of title XVIII of Pub. L. 116-283 as enacted, see section 1701(a)(2) of Pub. L. 117-81, set out in a note preceding section 3001 of this title and Effective Date note below.

EFFECTIVE DATE

Section and amendment by Pub. L. 116-283 effective Jan. 1, 2022, with additional provisions for delayed implementation and applicability of existing law, see section 1801(d) of Pub. L. 116-283, set out as an Effective Date of 2021 Amendment note preceding section 3001 of this title.

REVIEWS OF PROGRAMS RESTRUCTURED AFTER EXPERIENCING CRITICAL COST GROWTH

Pub. L. 111-23, title II, §205(c), May 22, 2009, 123 Stat. 1725, as amended by Pub. L. 111-383, div. A, title VIII, §813(e), title X, §1075(k)(2), Jan. 7, 2011, 124 Stat. 4266, 4378, provided that: "The official designated to perform oversight of performance assessment pursuant to section 103 of this Act [formerly set out as a note under section 2430 of this title, see 10 U.S.C. 4273], shall assess the performance of each major defense acquisition program that has exceeded critical cost growth thresholds established pursuant to [former] section 2433(e) of title 10, United States Code [see 10 U.S.C. 4375(a) to (c)], but has not been terminated in accordance with [former] section 2433a of such title [see 10 U.S.C. 4376, 4377] (as added by section 206(a) of this Act) not less often than semi-annually until one year after the date on which such program receives a new milestone approval, in accordance with [former] section 2433a(c)(1)(C) of such title [see 10 U.S.C. 4377(a)(3)] (as so added). The results of reviews performed under this subsection shall be reported to the Under Secretary of Defense for Acquisition, Technology, and Logistics and summarized in the next annual report of such designated official."

[Pub. L. 111-383, div. A, title VIII, §813(e), Jan. 7, 2011, 124 Stat. 4266, provided that the amendment made by section 813(e) to section 205(c) of Pub. L. 111-23, set out above, is effective as of May 22, 2009, and as if included in Pub. L. 111-23, as enacted.]

[For definition of "major defense acquisition program" as used in section 205(c) of Pub. L. 111-23, set out above, see section 2(2) of Pub. L. 111-23, set out as a note preceding section 4321 of this title.]

CHAPTER 327—WEAPON SYSTEMS DEVELOPMENT AND RELATED MATTERS

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Editorial Notes

PRIOR PROVISIONS

A prior chapter 327 "RESEARCH AND DEVELOPMENT CENTERS AND FACILITIES", consisting of reserved section 4401, was repealed by Pub. L. 116-283, div. A, title XVIII, §1841(a)(1)(A), Jan. 1, 2021, 134 Stat. 4242.

A prior chapter 329 "OPERATIONAL TEST AND EVALUATION; DEVELOPMENTAL TEST AND EVALUATION", consisting of reserved section 4451, was repealed by Pub. L. 116-283, div. A, title XVIII, §1841(a)(1)(A), Jan. 1, 2021, 134 Stat. 4242.

SUBCHAPTER I—MODULAR OPEN SYSTEM APPROACH IN DEVELOPMENT OF WEAPON SYSTEMS

- Sec. 4401. Requirement for modular open system approach in major defense acquisition programs; definitions. 4402. Requirement to address modular open system approach in program capabilities development and acquisition weapon system design. 4403. Requirements relating to availability of major system interfaces and support for modular open system approach.

§ 4401. Requirement for modular open system approach in major defense acquisition programs; definitions

(a) MODULAR OPEN SYSTEM APPROACH REQUIREMENT.—A major defense acquisition program that receives Milestone A or Milestone B approval after January 1, 2019, shall be designed and developed, to the maximum extent practicable, with a modular open system approach to enable incremental development and enhance competition, innovation, and interoperability. Other defense acquisition programs shall also be designed and developed, to the maximum extent practicable, with a modular open system approach to enable incremental development and enhance competition, innovation, and interoperability.

(b) DEFINITIONS.—In this chapter:

(1) The term "modular open system approach" means, with respect to a major defense acquisition program, an integrated business and technical strategy that—

(A) employs a modular design that uses modular system interfaces between major systems, major system components and modular systems;

(B) is subjected to verification to ensure that relevant modular system interfaces—

(i) comply with, if available and suitable, widely supported and consensus-based standards; or

(ii) are delivered pursuant to the requirements established in subsection (a)(2)(B) of section 804 of the William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021, including the delivery of—

(I) software-defined interface syntax and properties, specifically governing how values are validly passed and received between major subsystems and components, in machine-readable format;

(II) a machine-readable definition of the relationship between the delivered interface and existing common standards or interfaces available in Department interface repositories; and

(III) documentation with functional descriptions of software-defined interfaces, conveying semantic meaning of interface elements, such as the function of a given interface field;

(C) uses a system architecture that allows severable major system components and modular systems at the appropriate level to