



Updated August 2, 2019

# DOD’s Cloud Strategy and the JEDI Cloud Procurement

In September 2017, the Deputy Secretary of Defense issued a memorandum calling for the accelerated adoption of a Department of Defense (DOD) enterprise-wide cloud services solution as a fundamental component of ongoing DOD modernization efforts. As a component of this effort, DOD is seeking to acquire a cloud services solution accessible to the entirety of the Department that can support Unclassified, Secret, and Top Secret requirements, focusing on commercially available cloud service solutions, through the Joint Enterprise Defense Infrastructure (JEDI) Cloud acquisition program. The Department originally expected to award the contract in August 2019. However, Secretary of Defense Dr. Mark T. Esper is reportedly currently reviewing the JEDI Cloud program, which may delay the award.

Significant industry and congressional attention has been focused on DOD’s intent to award the JEDI Cloud contract to a single company.

## Background

Broadly speaking, *cloud computing* refers to the practice of remotely storing and accessing information and software programs on demand, instead of storing data on a computer’s hard drive or accessing it through an organization’s intranet. This practice relies on a *cloud infrastructure*, a collection of hardware and software that may include components such as servers and a network. Cloud infrastructure can be deployed *privately* to a select user group, *publicly* through subscription-based commercial services available to the general public, or through *hybrid* deployments that combine aspects of both private and public cloud infrastructure. As of mid-2018, DOD reported maintaining more than 500 public and private cloud infrastructures that supported Unclassified and Secret requirements. DOD has been critical of its current cloud services implementation, describing them as “decentralized” and creating “additional layers of complexity” that impede shared access to common applications and data across the department. DOD has also acknowledged that its prior lack of “clear guidance on cloud computing, adoption, and migration” has led to “limited capability ... and inefficient acquisitions that cannot take advantage of economies of scale.”

## DOD’s Cloud Strategy

DOD publicly released its Cloud Strategy in February 2019. The strategy described plans to extend cloud computing services across the Department through developing a “multi-cloud, multi-vendor ... ecosystem composed of a General Purpose and [multiple] Fit For Purpose” clouds. DOD anticipates that the JEDI Cloud acquisition program will ultimately lead to a foundational enterprise-wide General Purpose cloud suitable for the majority of DOD

systems and applications. DOD envisions Fit For Purpose clouds as task-specific clouds, or on-premises cloud solutions, to be used in limited situations where the General Purpose cloud is “not capable of supporting mission needs.”

## The JEDI Cloud Program

DOD issued its Request for Proposals (RFP) for the JEDI Cloud on July 26, 2018; the RFP closed on October 9, 2018. DOD has completed its initial downselect from proposals submitted by offerors, with Amazon Web Services and Microsoft remaining in contention for the contract. DOD requested \$61.9 million in funding for the JEDI Cloud acquisition program for FY2020.

## Contract Structure

DOD is conducting a full and open competition that is expected to result in a single award Indefinite Delivery/Indefinite Quantity (ID/IQ) firm-fixed price contract for commercial items. DOD has indicated that the minimum guaranteed award is \$1 million. The contract is expected to have a maximum ceiling of \$10 billion across a potential 10-year period of performance. Under an ID/IQ contract, the government is only required to purchase the minimum amount specified in the contract, and may ultimately choose not to reach the contract ceiling. The contract period of performance is structured as a 2-year base ordering period, with 3 additional option periods, for a potential total of 10 years (see **Table 1**).

**Table 1. Anticipated Period of Performance**

Performance Period	Timeframe
Base ordering period (2 years, guaranteed)	2019-2021
Option #1 (3 years, if exercised)	2021-2024
Option #2 (3 years, if exercised)	2024-2027
Option #3 (2 years, if exercised)	2027-2029

**Source:** JEDI Cloud RFP, “Combined Synopsis/Solicitation for Commercial Items.”

## JEDI Cloud Source Selection Process

DOD has indicated that it intends to award the JEDI Cloud contract to the offeror whose proposal meets specified requirements and represents the best value to the government, based on a two-step evaluation process. In the first step, offerors were evaluated against seven “sub-factor” performance-based criteria. Offerors’ proposals were deemed acceptable or unacceptable for each individual sub-factor as considered sequentially. A judgement of unacceptable for any sub-factor immediately disqualified a proposal from further consideration. If a proposal received a mark of acceptable for each sub-factor, it proceeded to the second phase of the source selection

process, where it was then evaluated against five additional technical factors, together with the offeror's price proposals, to determine a competitive range of offerors. Qualifying offerors were next evaluated against two additional factors: the offeror's approach to meeting small business participation goals and a demonstration of the proposed solution's capabilities.

## Industry Reactions

DOD's acquisition strategy sparked resistance from many commercial cloud vendors and industry observers who opposed DOD's intent to award the contract to a single company. Oracle America and IBM both filed pre-award bid protests with the Government Accountability Office (GAO) against the JEDI Cloud solicitation. GAO denied Oracle America's protests and dismissed IBM's protests. Oracle America then filed a pre-award bid protest lawsuit with the U.S. Court of Federal Claims; the court ruled against Oracle America in a July 12, 2019, decision.

In filings associated with its bid protest lawsuit, Oracle America in part alleged that the JEDI Cloud acquisition process was unfairly skewed in favor of Amazon Web Services through potential organizational conflicts of interest associated with three former DOD employees, each of whom was involved to greater or lesser degrees in the early development of the program. Two of these individuals were subsequently employed by Amazon. DOD investigations determined that Amazon Web Services had no conflicts of interest and established that the actions of the individuals identified by Oracle America did not negatively impact the procurement or grant Amazon Web Services an unfair competitive advantage. However, the investigations did identify individual violations of ethical standards established by the Federal Acquisition Regulation (FAR), which directs government procurement activities to be "conducted in a manner above reproach," and for government employees to strictly avoid "even the appearance of a conflict of interest in Government-contractor relationships." These findings were reportedly referred to the DOD Inspector General for further review.

## Congressional Activity

### Enacted Legislation

Section 1064 of P.L. 115-232, the FY2019 National Defense Authorization Act (NDAA), requires the DOD Chief Information Officer (CIO) to conduct specified enabling activities to support DOD's cloud adoption initiative and to submit a report detailing the current status and anticipated implementation of DOD's cloud adoption initiative. The section also established a limitation on the obligation or expenditure of 15% of the authorized FY2019 funds for the initiative until the required report's submission. Section 1064 also required the Deputy Secretary of Defense to "ensure that the acquisition approach of the Department continues to follow the [FAR] with respect to competition."

Section 8137 of P.L. 115-245, which provided FY2019 DOD appropriations, prevents the obligation or expenditure of FY2019 funds to "migrate data and applications to the proposed [JEDI] ... cloud computing services" until 90 days after the Secretary of Defense submits (1) a plan to

establish a DOD-wide budget accounting system for funds requested and expended for cloud services, as well as funds requested and expended to migrate to a cloud environment; and (2) a detailed description of DOD's strategy to implement enterprise-wide cloud computing to the congressional defense committees.

### Proposed Legislation

Section 1035 of S. 1790, the Senate-passed version of the FY2020 NDAA, would specify that the DOD CIO and the DOD Chief Data Officer, in consultation with the J6 C4 & Cyber Directorate of the Joint Staff and the DOD Chief Management Officer, must develop and issue DOD-wide policy and implementing instructions regarding the transition of data and applications to the cloud.

H.Rept. 116-84, which accompanies H.R. 2968, the House Appropriations Committee-reported version of the FY2020 DOD appropriations act, highlights the committee's questions regarding DOD's pursuit of a "single vendor contract strategy" for the JEDI Cloud procurement. Accordingly, the House Appropriations Committee would direct that no funds may be obligated or expended to migrate data and applications to the JEDI Cloud until the DOD CIO provides a report to Congress expanding on the Department's plans to transition to a "multi-cloud, multi-vendor" cloud environment. The DOD CIO would also be directed to submit quarterly reports on the Department's cloud adoption and implementation strategy.

### Considerations for Congress

Some industry observers contend that an initial single award appears to contradict broader federal cloud computing implementation guidance and industry best practices that stress the importance of multi-cloud solutions. Others point to the implementation approaches identified by DOD's Cloud Strategy that indicate the Department expects the JEDI Cloud to serve certain enterprise-wide functions, performing as one component of a broader multi-cloud, multi-vendor DOD cloud system. Opponents of DOD's use of a single-award contract for the JEDI Cloud program have suggested that this tactic could restrict future competition for enterprise-wide DOD and cloud services. Supporters of DOD's approach argue that the JEDI Cloud program's requirement for offerors to develop platform-agnostic applications and data schema suggests that the Department may be well equipped to migrate from any service environment developed under the JEDI Cloud contract to another such environment.

#### Other Resources

DOD Cloud Strategy, available at <https://go.usa.gov/xy2Wm>

#### CRS Products

CRS Report R45847, *The Department of Defense's JEDI Cloud Program*, by Heidi M. Peters

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