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open systems architecture is a system design approach which aims to produce systems that are inherently interoperable and connectable without recourse to retrofit and redesign in the development of department of defense dod systems mosa is an acquisition and design strategy consisting of technical architectures that adopts open standards and supports a modular loosely coupled and highly cohesive system structure a mosa formerly known as open systems architecture or open systems approach can be defined as a technical and business strategy for designing an affordable and adaptable system a mosa is the dod preferred method for implementation of open systems and it is required by us law open architecture is a way of designing software and hardware that makes it easy to upgrade and add functions to a computer system it can also make it simpler for two different computer systems or programs to work together wosa weapon open systems architecture a framework for munitions development in addition to the broad benefit of making defense products and systems more cost effective with more interoperability mosa is also designed to spur competition among defense and intelligence community partners congress began citing the benefits of modular open architectures as early as 2009 and by 2016 mandated that all major defense acquisition programs be designed and developed with a modular open system approach 10 usc 2446a 2446c open architecture can be defined as a computer or software architecture that has been developed using open standards and makes it easier to add change and replace new components openness refers open architecture allows potential users to see inside all or parts of the architecture without any proprietary constraints typically an open architecture publishes all or parts of its architecture that the developer or integrator wants to share a promising approach to meet these goals is open systems architecture osa which combines modular open development practices designed to reduce the cycle time needed to acquire new systems and insert new technology into legacy systems and open architecture is a hardware or software design that allows adding or changing single components without changing other components these components are connected over a basic platform fig 1 jadc2 demands a modular open system approach mosa that keeps up with evolving threats modular approaches and flexible open system architectures allow system components to evolve in response to changing technologies threats and interoperability needs ever wonder what open systems architecture osa is all about how it links to modular open systems architecture mosa and what exactly do open systems have to do with technical data management and technical data rights issues which of course all have tremendous ramifications from a product support and sustainment perspective open architecture is a type of computing system that provides users with flexibility in terms of how they use their hardware and software it allows them to build custom solutions that are tailored to their business needs the approach allows the department to flexibly acquire full capabilities and individual components including systems subsystems and software and create end item systems and services that can respond to changing threats and missions allow for technology advances upgrade and sustain when necessary and maintain appropriate security assuran definition a characteristic of a system which uses a technical architecture that adopts consensus based standards supporting a modular loosely coupled and highly cohesive system structure that includes the publishing of key interfaces within the system and relevant design disclosure source defense acquisition guidebook open systems standards and architectures elsys provides a breadth of open architecture expertise in analysis design and implementation for system factors encompassing software hardware and functional decomposition this paper presents a framework for evaluating dod s readiness for modular open systems approaches mosa as it aims to transition how it acquires new technology by relying on open standards and interfaces to increase competition and simplify technology integration why use open systems architectures modular open systems architectures mosa provide industry standard technologies and a modular approach to system design that delivers rapid innovation increased vendor choice and greater interoperability open systems architecture solutions to ensure a more agile and connected multi domain battlespace our avionics and mission connectivity solutions are open and modular enabling rapid technology insertions and increased mission flexibility to help outpace evolving enemy threats marshall scars is a 10 year id iq to develop a centralized enterprise solution that establishes a common open systems architecture for u s air force usaf simulators platforms and the joint

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