



DEFENSE INFORMATION SYSTEMS AGENCY
The IT Combat Support Agency



DISA Software Defined Enterprise

The Evolution of Today's Enterprise Services for Tomorrow and Beyond.

Overview

Software Defined Enterprise (SDE) represents a fundamental paradigm shift from traditional compute and network development, deployment and management approaches. Consisting of three core principles; virtualization, automation and operations, SDE aims to maximize economies of scale; reducing deployment timelines, operational budgets and streamlining security tools and situational awareness. By developing policy, implementation plans and strategic planning milestones, DISA will aim to increase the level of automation and orchestration across the agency within a one, three and five year planning cycle.

Rapid Automation & Orchestration

Programmable Infrastructure

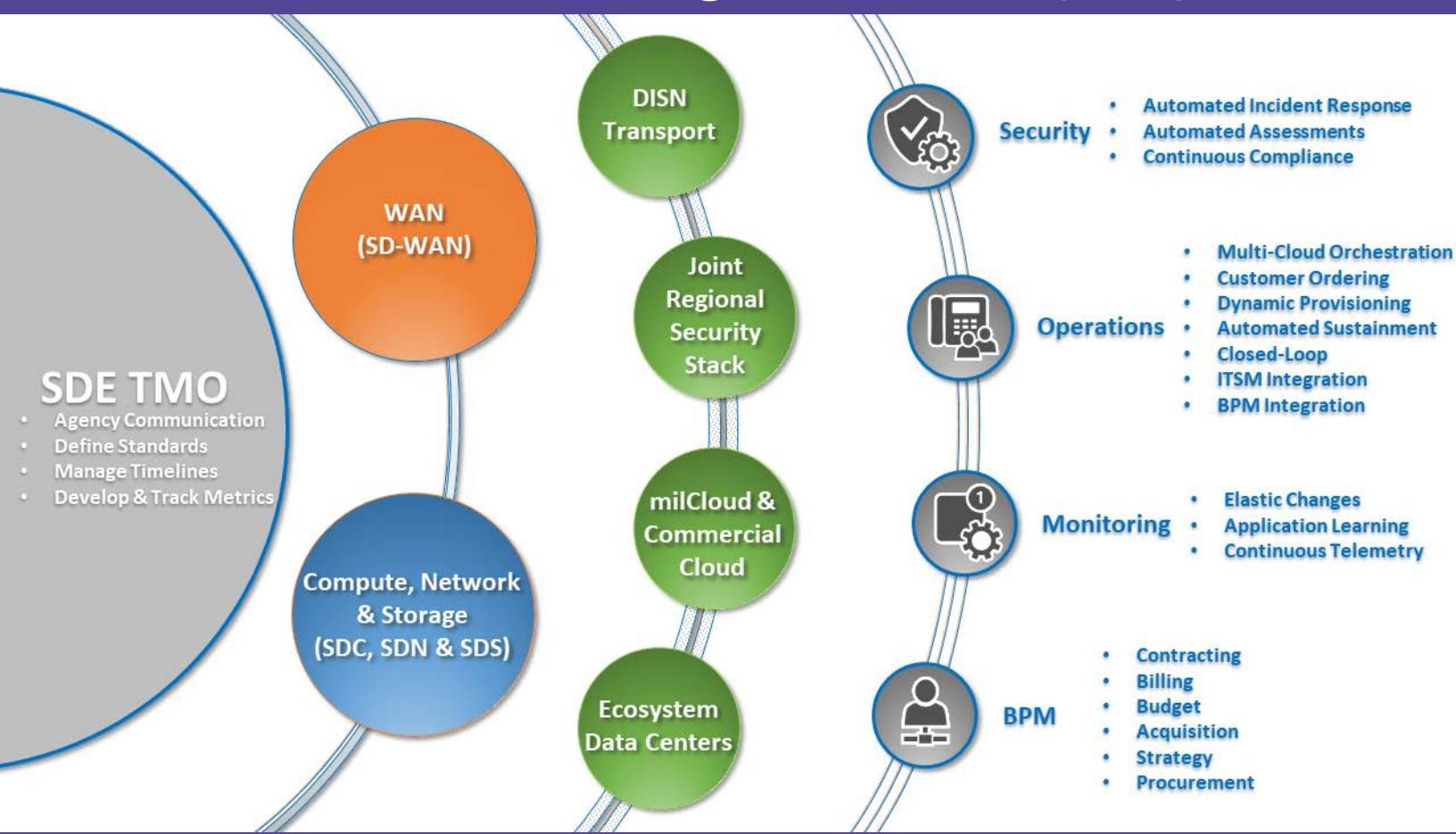
Diverse Deployment Environments

Closed Loop Operations

Tactical and Operational Benefits

- Application Orchestration:** Application deployment will include the provisioning of all compute, network, and storage configurations. Configuration will be tied to the application at deployment and will be removed upon application decommissioning.
- Programmable Devices:** Software Defined Infrastructure will enable centralized management and automation by the end-to-end orchestration platform.
- Rapid Network Provisioning:** SDE enables rapid provisioning of circuits, firewall, routing and switching configuration for an agile, resilient and highly available DODIN.
- Closed Loop Operations:** Enables automated incident response and automated scaling of applications. Security incidents detected by sensors and tools can then be instantly mitigated by automated workflows. Application monitoring can execute workflows to scale based on utilization.
- Orchestration across Diverse Deployment Environments:** Deploy using a single application blueprint across the DISA Ecosystem, milCloud, and Commercial Cloud. Enables the migration of application from test and development environments to production across different clouds.

DISA SDE Technical Management Office (TMO)



Aligning Infrastructure, Operations and Processes for Tomorrow's Enterprise

SDE Initiatives Across The Agency:

The SDE TMO is chartered to promote automation and coordinate the integration of software defined technologies. Here is a snap shot of DISA SDE efforts:

- **Ecosystem:** Automation of network, compute and storage provisioning of Mission Partner workload to expedite the delivery of standard, well-defined programs, drive closed-loop compliance and reduce the cost and inefficiencies of manually intensive processes.
- **Transport:** Layer 2/Layer 3 VPN automation of provisioning which will transform the DoD network from a physical paradigm to a software defined networking capability that increases networking agility, enhances reliability, enhances security and provides cost effective connectivity across DoD.
- **Storefront:** Automation of the Service Request Form (SRF) to provide increased tracking and accountability of the SRF process. Deploy automated provisioning of workflows to reduce manual touch points and timelines to quote standard DISA offerings.
- **Global Orchestrator:** Enable cross agency orchestration by abstracting service level automation toolsets. Drive automated provisioning workflows across cloud, cyber, transport and Ecosystem to integrate operations.

Contact Us

DISA SDE Technical Management Office

Email: disa.meade.bd.mbx.sde-tmo@mail.mil