

Annual DoD Chief Information Officer Awards Criteria and Guidance for 2016

Attachment 2 Example: Winning Team Nomination

Nominee: NGA's Data Center Consolidation and Recapitalization Team

Position: Kevin S. Dowling, plus 9 team members.

Location: NGA: Springfield, 7500 GEOINT Drive, Springfield, VA., 22150-7500

Background: NGA's Area 82 (A82) Data Center in Bagram Airbase, Afghanistan provided Geospatial Intelligence (GEOINT) to US, coalition, and Special Operations Forces in the Afghanistan Theater. A82 was the central National System for GEOINT (NSG) storage and dissemination hub that provided discovery and access to full-spectrum GEOINT. The GEOINT data at A82 was stored and disseminated on multiple U.S. and coalition networks (JWICS, SIPR, CX-I, and NIPR), and provided access and storage to structured and unstructured data for NGA and partners' analytical services. With the Afghanistan transition from Operation Enduring Freedom to the Resolute Support Mission (RSM), NEA transitioned NGA services to the OCONUS Data Center (ODC) in Bahrain to set the conditions that ensure IT services remained a force enabler during future operations, while enabling NGA to draw-down in accordance with RSM requirements.

By 2015, ODC Information Technology (IT) equipment was reaching its end of life and needed to be recapitalized to sustain support to ongoing and emerging operations throughout the region (i.e., Afghanistan, Iraq, Libya, Yemen and Somalia). We analyzed how to maximize regional support while gaining efficiencies afforded by mission partners. We determined NGA could realize significant cost savings by consolidating ODC and A82 data centers into the Qatar-based CENTCOM Forward Headquarters (CFH) data center.

Functional Areas: Enterprise Architecture; Enterprise Services; IT Efficiencies; Business Process Improvement; Network Operations (Customer Support).

Judging Criteria: Broad user base; Cost avoidance/savings; Improved information delivery/dissemination; Improved processes; Management efficiency/effectiveness; Mission impact.

Accomplishments:

- Cost Avoidance/Savings:
 - Consolidated three NGA technical hubs (A82, ODC, and CFH) into a single data center at CFH, and reduced associated annual operating costs in FY17 and beyond by an estimated \$30M. By itself, the A82 retrograde will provide almost \$6M in software, hardware, and personnel cost avoidance in FY16.
 - Reduced communications requirements more than 70% by consolidating three imagery data streams into one, and eliminating unnecessary imagery data pushes, avoiding \$6-10M in annual transport costs.
 - Modernized equipment and reduced our infrastructure footprint by over 60% and decreased our power and cooling requirements while increasing overall compute capacity to accommodate for an increased user base.
 - Revalidated requirements and instituted improved retention policies which allowed us to reduce storage infrastructure by over 50 percent.
 - Relocated, consolidated, or eliminated approximately 75% of GEOINT applications, providing simpler licensing and a 70% reduction in required licensing and on-site support saving several millions annually.
 - Implemented cloud technologies that allow us to leverage future IC-ITE and JIE OCONUS capabilities, enabling access to the community infrastructure without the need to build a unique GEOINT architectures to support warfighters current and future regional conflicts.
- Management Efficiency/Effectiveness:
 - Managed NGAs Tech Center retrograde from Afghanistan; relocated 15 GEOINT services on separate US, SOF, and coalition networks; decommissioned 3 IT systems, reduced in-country IT manning

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requirements by 60%; ensured uninterrupted access to GEOINT services; saved more than \$15M in annual operating costs.

- Proactively led the planning for transitioning IT services out of A82 to ensure uninterrupted GEOINT services during the Afghanistan retrograde—prevented any impact on the Afghanistan user community while providing sufficient time to properly dispose of or return equipment.
- Consolidation of ODC and A-82 into CFH improved force protection by reducing the number of on-site personnel, moving to a hardened structure, and eliminating the need for IT personnel in a hostile environment.
- Conducted a four month Analysis of Alternatives (AOA) study involving over 40 personnel from five Key Components and three Combatant Commands (COCOM) to assess current and future data center requirements that meet NGA's current and future deployed missions.
 - Explored various locations, assessed user performance requirements, and identified the GEOINT services that were needed beyond FY16
 - Delivered a cost-efficient solution utilizing a minimal OCONUS footprint and capable of remote management through NGA's Enterprise network.

Mission Impact Summary:

NGA's Data Center Consolidation and Recapitalization Team delivered a plan that consolidated three data centers into one. It's estimated that by FY17, this plan could realize annual cost avoidance of over \$40M annually in facility, personnel, communications, and operating costs. The team found ways to reduce communications costs by over 70 percent, hardware footprint by over 60 percent, storage needs by over 50 percent, and applications by over 75 percent! It implements cloud technologies that will allow us to leverage future community IC ITE and JIE OCONUS capabilities creating efficiencies for future support to the tactical edge. The team's plan allows NGA to gain incredible IT efficiencies while ensuring uninterrupted GEOINT support to missions in hostile environments. The Data Center Consolidation and Recapitalization Team also anticipated changes a year in advance and led the planning for transitioning IT Services out of Bagram AB during the Afghanistan Retrograde. The team's outstanding, persistent collaboration with in-country, COCOM, and NGA stakeholders assured a smooth, operationally focused transition plan that achieved zero loss or degradation of services. It also significantly reduced our manpower and material footprint which will potentially save lives and avoid tens of millions of dollars in costs annually.

Nominator and Primary Contact: Kevin S. Dowling, NGA NEA, 571-557-1958 Kevin.S.Dowling@coe.ic.gov

Component CIO or Senior IRM Official: David Cacner, NGA NEA, Director, SES, 571-557-5670, david.w.cacner@nga.mil

The Nominator and Component CIO/Senior IRM Official have verified the award nomination is not a duplicate or similar nomination from a previous DoD CIO Annual Award year.

How did you hear about the DoD CIO Award Ceremony Program: e-mail announcement

Recommended Award Presentation Summary: The NGA's Data Center Consolidation and Recapitalization Team delivered capabilities to analysts across the Geospatial Intelligence National System while reducing NGA's forward personnel and material footprint by 50 to 75 percent, with an annual cost savings of over \$40 million. The team anticipated changes a year in advance and led the planning for transitioning IT services out of Afghanistan. This transition was accomplished with no interruption and no degradation to IT services for the warfighter. The team's collaboration with deployed, Combatant Command, and Agency stakeholders assured a smooth transition that will save lives and avoid millions of dollars in costs annually. Additionally, the team

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implemented cloud technologies to allow NGA to leverage future intelligence community IT and joint intelligence environment OCONUS capabilities, creating efficiencies for future geospatial intelligence support out to the tactical edge. These accomplishments reflect great credit on the Data Center Consolidation and Recapitalization Team, the National Geospatial-Intelligence Agency, and the Department of Defense.