



Case Study

DoD Cloud Migration & RMF Accreditation

Two-Stage Migration of US Army AFMIS: From On-Premises to Azure IL4 and then to cArmy Enterprise Cloud

Data Center Services (DCS)

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Executive Summary

The US Army Food Management Information System (AFMIS) required a secure, phased migration from legacy on-premises infrastructure to modern DoD cloud environments while maintaining continuous RMF accreditation and operational continuity.

DCS provided lead architecture, engineering, and RMF support across **two major migration stages**:

- **Stage 1 (June 2019)**: On-premises VMware/Hitachi UCP 4000E to the first fully accredited Microsoft Azure IL4 environment.
- **Stage 2 (2025)**: Standalone Azure IL4 to the cArmy Enterprise cloud, with full integration into Army enterprise services.

Key Results:

- Successful implementation of the first IL4 production Cloud Access Point (CAP) with zero-downtime migrations.
- Groundbreaking VDMS security stack deployment in Azure IL4.
- Return to enterprise-supported VDMS security in cArmy, reducing operational burden.
- AFMIS became a bellwether project for CECOM Software Engineering Center.

The Challenge

Legacy systems like AFMIS faced urgent deadlines to exit physical data centers, complex RMF requirements across multiple cloud environments, and the need for secure, compliant connectivity via DISA SCCA and Cloud Access Points (CAP). Early phases lacked full CSSP support, requiring custom security solutions, while later phases demanded seamless integration with Army enterprise services.

The DCS Solution

DCS delivered end-to-end leadership in architecture, engineering, and RMF compliance:

Stage 1 – Azure IL4 Migration (Completed June 2019)

- Led architectural design and engineering for migration from on-premises VMware/Hitachi UCP 4000E SAN-centric environment.
- Achieved full RMF ATO for the first production Azure IL4 environment.
- Worked directly with DISA SCCA team to implement the Virtual Data Center Managed Services (VDMS) security stack within the AFMIS accreditation boundary (C5ISR Azure CSSP services were not yet available).
- Developed advanced Cloud Access Point (CAP) expertise, including complete buildout of the AFMIS VDMS security stack.
- Coordinated handover of VDMS (including McAfee and Nessus support) to C5ISR in September 2019, while continuing support for Microsoft Active Directory and custom Azure Virtual Desktop services.

Stage 2 – cArmy Enterprise Migration (Completed 2025)

- Led cybersecurity, architecture, and engineering for migration from standalone Azure IL4 to the cArmy Enterprise cloud.
- Fully integrated AFMIS with cArmy Enterprise Active Directory and cArmy Azure Virtual Desktops.
- Returned AFMIS to enterprise-supported VDMS security, significantly reducing operational burden while maintaining RMF 2.0 and cATO compliance.

Implementation Highlights

- Rapid prototyping and sandbox environments to validate design decisions.
- Maximized inheritance of security controls to streamline accreditation.
- Live, zero-downtime CAP migrations (v1.0 → v3.0).
- Strong collaboration with DISA, Microsoft, and C5ISR teams.

Results & Benefits

- AFMIS successfully migrated to Azure IL4 (June 2019) and cArmy (2025) with full RMF compliance.
- Established groundbreaking capabilities in Azure IL4 VDMS and CAP implementation.
- Achieved return to enterprise-supported security in cArmy, improving efficiency and reducing risk.
- Maintained project schedules under tight deadlines and became a model for CECOM-SEC.

Why DCS?

With Robert Hermanns' extensive background (former Northrop Grumman Senior Cybersecurity Architect and author of the DCLD 101 CAP course), DCS brings proven, hands-on expertise that bridges legacy systems to modern DoD cloud environments.

Next Steps

Ready to accelerate your multi-stage cloud migration and RMF accreditation? Contact DCS today for a technical consultation or to add our support bundle to your GSA order.

Contact DCS

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