

WHY THIS DOD AGENCY DECIDED

# DYNAMIC SYSTEMS MIGRATION SOLUTION

WAS THE RIGHT CHOICE TO HELP  
THEM UPGRADE THEIR EQUIPMENT  
AND SYSTEMS

## ABOUT THE CLIENT

**Industry:** Government

**Location:** Undisclosed



## AT A GLANCE

### Challenge

A legacy infrastructure environment running on non-standard systems and old equipment led a defense agency to seek the expertise of Dynamic Systems in systems migration.

### Solution

Perform a tech refresh by migrating from SPARC/Solaris running custom applications to an X86/Linux platform.

### Results

- Platform standardization
- Ease of administration of systems
- More efficient backup and restores

## Overview

A Department of Defense (DOD) Agency had been operating using old equipment and legacy systems and needed an upgrade and migration solution for their organization. Dynamic Systems helped them perform the tech refresh while ensuring the implementation of best practices and with zero interruption.

## Challenge

This agency of the DOD was running its development using old hardware and software that were in dire need of replacement.

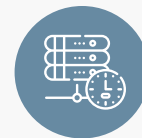
Other significant challenges for the defense agency branch were to standardize on Industry-Standard x86/Linux from its SPARC-Solaris platform in order to improve operational efficiency, as well as improve systems backup and restore times and ease of operation.



Older equipment that needed to be replaced



Migration to x86/Linux to improve operational efficiency



Improve backup and restore times and ease of operation

This Defense Agency needed a highly-reliable, flexible and affordable migration services and solution.

## Solution

At the genesis of the project, the DOD agency contacted Dynamic Systems to recommend the most effective solution to the client's problem. And if there's one thing the agency is aware of, it's that Dynamic Systems has the SPARC/Solaris expertise and the experience to migrate to x86 and Red Hat Linux utilizing TS/SCI cleared engineers.

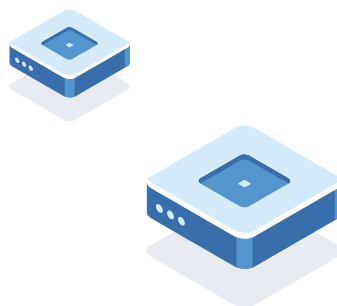
The solution design included all hardware parameters, job scheduling software, server hardware, storage hardware, network hardware, administrator training, etc. The solution components include:

- Oracle X7-8 servers
- Oracle ZFS Storage with Encryption enabled
- Arista networking
- Over 1,700 CPU Cores
- Networking secure implementation
- Large storage implementation using Oracle ZFS Storage solution
- Rubrik backup solution

Dynamic Systems Experts spend several weeks on site:

- Chief Architect
- System Engineers
- Project Management
- Documentation and training completed

The solution has been successfully implemented with complete documentation, STIG security hardening and testing, and provided a turnkey solution ready for the agency's custom applications.





## Results

Dynamic Systems' technology implementation has a significant impact on the agency's environment relative to the defense agency's old equipment and legacy systems. With Dynamic Systems, this customer has:

### **Achieved Authority to Operate (ATO), passing all security audits.**

The agency's expertise is security, so above anything else, it is crucial for the customer to pass all security audits and maintain security measures even during the migration. Dynamic Systems has become instrumental in ensuring this objective.

### **Standardized platform from legacy system to industry-standard X86.**

With Dynamic Systems' expertise in Red Hat and Linux, the agency has successfully migrated their systems and upgraded their equipment with zero interruption to the current system.

### **Simplified systems operations and administration.**

Best practices were recommended, documentation and training were completed. This was instrumental in improving the operational efficiency and allowed the new system to go-live ahead of schedule.

### **Improved backup and restore times efficiency.**


With the new system and technology implemented, the agency has improved its backup and restore systems to a great deal.



*Hardware and OS is running well. Your engineers provided outstanding support.*

**Classified DOD Agency**

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