Project Highlights

U.S. AIR FORCE – NETWORK INTEGRATION CENTER

The Air Force Active Directory and Exchange (ADX) migration program collapsed all individual or stand-alone Air Force, Air Force Reserve and Air National Guard networks into a central Air Force Network (AFNet). This engagement was the largest ever migration of multiple active directories supporting over 800,000 users. As the migration technical team lead for all Active Directory, Microsoft Exchange, and other core service migration efforts, Akima Global Technology provided:

- Advanced systems engineering support of unclassified or classified Microsoft Active Directory/Exchange environments

- Support for user, group, e-mail, computer, and file migration of Microsoft Active Directory/Exchange from multiple environments to the AFNet environment

- Server equipment and software installation services

- Network optimization and troubleshooting support for base-level and enterprise data center network equipment for ADX enterprise equipment and clients

Project Highlights

U.S. PATENT AND TRADEMARK OFFICE

The System Administration and Engineering Branch (SAEB) of the United States Patent and Trademark Office (USPTO) is responsible for all production, test and development databases for the USPTO. This environment consists of hundreds of databases, running on hundreds of servers accessed by hundreds of applications. These databases run on Oracle software including versions 9i, 10g, 11g, 12c, 18c, and 19c. This highly complex domain is constantly evolving due to software and hardware installations, upgrades, migrations, and patches.

Akima Global Technology Oracle technology architects and engineers implement, maintain, manage, and enhance all key Oracle-driven operations in this environment, including single point monitoring (Oracle Grid Control), backup and recovery (Oracle RMAN), high availability (Oracle RAC), standby databases (Oracle Data Guard), data replication (Oracle Golden Gate), and specialized application development (Oracle Application Express), as well as expanding business continuity and disaster recovery capabilities. Our personnel also assist USPTO in creating a virtual environment to support its Next Generation computer-based resources. This includes enhancing key Oracle legacy systems while migrating to a virtual architecture. Other Akima Global Technology contributions include defining and documenting information system requirements in the areas of overall system architecture and infrastructure components, capacity planning, testing procedures, system deployment change management strategy.

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Project Highlights

FOOD AND DRUG ADMINISTRATION

The FDA's Office of Information Management (OIM) manages information technology (IT) and other related services, including technical oversight of system processes, policies, and methodologies that enable interoperability across the organization and the development of the enterprise-wide systems necessary to meet FDA's mission of promoting and protecting public health. In support of this mission, Akima Global Technology architects and engineers provide agency-wide Oracle technology support services, including:

- Logical and physical database design

- Service oriented software implementation

- Operations, maintenance, and support of Oracle databases and application servers

- Custom application deployment

- Server transition and re-hosting

- Functional testing

- Backup/and recovery

- Performance optimization

- Hardware/software upgrade support

- Patch management support

- Troubleshooting support

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Project Highlights

BUREAU OF INDIAN AFFAIRS

Akima Global Technology provides the BIA's Office of Information Security and Privacy (OISP) a proactive, defense-in-depth Information Assurance (IA) strategy with a holistic view of the policies, standards, processes and metrics that support the BIA's security architecture and all of its individual components.

This is an enterprise-wide, full-lifecycle initiative which includes the following services:

- Security engineering and architecture support

- Security monitoring and analysis

- Vulnerability analysis

- Incident tracking and response

- Security log analysis

- Database and application security

- Data loss prevention

- Penetration testing

- Computer forensics

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Project Highlights

DEFENSE INFORMATION SYSTEMS AGENCY (DISA)

Akima Global Technology provides network and software security engineers who test and evaluate software and hardware for security vulnerabilities during development for secure and non-secure networks. They also assist personnel in understanding each security fix before and during installation, reducing the risk of vulnerability reoccurrence. Our engineers assist in securing new systems and coordinating turnover of systems to production being handled at other locations. The engineers help maintain the integrity of the site accreditation and they help coordinate activities related to the creation and maintenance of the site accreditation package.

- System security inspections to determine operating system integrity

- Implementation of application interfaces and access control products

- Vulnerability analysis and resolution recommendations/implementation

- Security Readiness Review (SRR) support

- Host-based IA tool deployment and maintenance

- Lifecycle security management

- System and network security administration

- Security awareness and education

- Coordination of turnover of systems into production at other facilities

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Project Highlights

U.S. ARMY – MEDICAL NETWORK OPERATIONS & SECURITY CENTER (MEDNOSC)

The U.S. Army's Medical Network Operations and Security Center is responsible for the operation, management and defense of the medical portion of the Army LandWarNet, an integrated combination of functional applications and network transmission services. Akima Global Technology's Information Assurance personnel provide Network Security Engineering support for the three major components of this network: Enterprise Network Management, Network Services, and Internal Services.

- Network Services
  - 24×7 on-site network support
  - Army Medical Departments and Medical Treatment Facilities audit
  - Network security design support
  - Virtual private network (VPN) infrastructure management
  - Firewall management
  - IP address management
  - Incident response
  - Configuration management of WAN services network electronics
  - Enterprise management of architectures to security suites
  - Global network defense
  - IPv6 implementation
  - Process and tools integration
- Enterprise Management
- Internal Services
  - Local Area Network (LAN) management
  - Logistics
  - Tool support for Information Technology Infrastructure Library (ITIL) management processes

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Project Highlights

FOOD AND DRUG ADMINISTRATION

Akima Global Technology provides strategic planning, development, and operation and maintenance (O&M) support for FDA's Oracle products hosted in their private cloud.

AGT provides enterprise architecture design, maintenance, and backup/recovery support for Oracle products including Grid infrastructure and Cloud Control. In addition, we are responsible for the administration of their Oracle databases and middleware (WebLogic) applications.

AGT has also provided server administration support to assist Hewlett-Packard with the server upgrades within their private cloud data center supporting FDA.

AGT personnel completed the deployment of Windows Server 2012 virtual servers and decommissioned the Windows Server 2003 environment. We were also responsible for the application development and deployment into the production environment.

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Project Highlights

U.S. NAVY AIR COMMAND (NAVAIR)

As airborne weapon systems develop and mature, they often undergo configuration changes and expansions of their operational flight parameters. At each step—from first flight to retirement—airworthiness must be assured and certified by a U.S. Naval Air System Command (NAVAIR) Flight Clearance. The NAVAIR Flight Clearance IT Web Processing System is key to this process because it houses all items, processes, and workflows required for any Navy office worldwide to attain flight clearance.

Akima Global Technology provides the following services to NAVAIR 4.0P:

- Requirements analysis for major and minor system enhancements

- Software development, testing, and deployment

- Software code and activity records management

- Database migration from MySQL to ORACLE

- Regular review and analysis of systems and processes

- Recommendations for enhanced performance, reliability, and maintenance

- Cost performance reports, database design documents, test plans, and test reports

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Project Highlights

U.S. NAVY PERSONNEL COMMAND

A web-based distributed system, Navy-Marine Corps Mobilization Processing System (NMCMPS) is the single authoritative data source providing Navy and Marine Corps Component Commanders end-to-end visibility and control of all current and future contingency augmentation requirements and processes, including automated workflow processing, order writing, and mobilization/demobilization processing. Akima Global Technology supports this system with:

- Functional requirements gathering
- Technical design and specifications to ensure DIACAP compliance
- System maintenance, support, and planned upgrades
- Subject matter expertise
- Improved user interfaces
- Identification and reduction of security threats
- Data archiving and retrieval
- Enhanced automated failover capability, disaster recovery
- Administrative planning and collaboration
- Operational and user support
- Web-based training

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Project Highlights

U.S. AIR FORCE AIR EDUCATION AND TRAINING COMMAND

The U.S. Air Force Air Education and Training Command's (AETC's) Decision Support System (ADSS) is an automated information system that provides AETC leadership and staff with key management information about training and production status, including monitoring and assessment of training. Akima Global Technology provided operational, technical, and maintenance support for ADSS, including:

- Application software sustainment—IBM, Oracle, and Microsoft

- System Integration

- Hardware maintenance—desktop, network, and servers

- System and network administration

- Database management—design, build, test, deploy, and support

- Website administration

- Security accreditation support

- Configuration management for all hardware, network, and software components

- Training support

- Operational and technical help desk support for all ADSS users

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