Cost Neutral Cloud Journey

Federal Law Enforcement Agency Moves Mission Critical Applications to Hybrid Cloud using 1901 Group’s Cost Neutral Cloud Approach

With 7,500 employees in 280 offices across the U.S., this federal law enforcement Agency relies upon public facing applications, mission systems and large volumes of data, including sensitive law enforcement and evidentiary data to protect communities from violent crimes and acts of terrorism. Many of the Agency’s activities are carried out in conjunction with task forces made up of federal, state and local law enforcement officers. In the event of an incident, law enforcement professionals from multiple organizations depend on rapid access to the federal Agency’s applications and data to protect the public from violent crimes.

In response to the Office of Management and Budget’s (OMB) Cloud First and Data Center Optimization Initiative, the Agency revised their architecture to replace their legacy data center with an innovative hybrid cloud architecture to meet its increasing mission needs and stringent security requirements. To improve operational performance while reducing costs, the Agency wanted to take advantage of cloud computing to turn capital expenses into operational expenses, reducing existing operations and maintenance (O&M) costs to create the funding to migrate their mission critical applications to the cloud.

The federal law enforcement agency turned to 1901 Group to support their journey to the cloud. This transformation is built upon 1901 Group’s cost neutral cloud journey approach that immediately reduced the current O&M spending by 30%, enabling the agency to apply those savings to establish a hybrid cloud environment and migrate mission critical data and applications to the cloud. The first step was transitioning the infrastructure O&M contract to 1901 Group’s FedRAMP authorized, network infrastructure as a service (NIaaS) offering that leverages process and technology automation and 24x7 managed services to improve performance and reduce costs. For step two, 1901 Group used their In3Sight™ FedRAMP authorized software as service (SaaS) platform to assess the Agency’s mission systems, applications and data to build a cloud migration plan. Upon approval of the migration plan, 1901 Group established a FISMA High, Private cloud storage as a service (STaaS) to provide disaster recovery as a service (DRaaS) with a recovery point objective and recovery time objective of less than one minute. 1901 Group then established the cloud infrastructure as a service (IaaS) and began the migration of cloud ready, live workloads to the cloud DR environment using cloud and data synchronization tools, which ensure no mission disruption. The last phase was the systematic refactoring of legacy applications to an open source solution and establishing a DevSecOps environment to support continuous integration/continuous development to improve the efficiency, security and O&M costs for refactored mission system and applications. The net result is a transformed environment that leverages hybrid cloud, adhering to all federal security mandates that significantly reduce costs over time through 1901 Group’s cost neutral cloud journey.

Customer Challenges

- 80% of IT budget is spent on O&M of legacy infrastructure making it difficult to fund transformation initiatives in a cost neutral approach
- End of life hardware and diverse, non-standardized technology stacks coupled with increased customer demands for computer, storage and infrastructure services
- Many of the legacy applications operate on legacy operating systems and applications not supported by cloud service providers
- Maintain compliance with FISMA High requirements
- Federal law enforcement chain of custody data requirements prevents the agency from leveraging the public cloud for data storage

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With its secure hybrid cloud solution, the agency has established a FISMA High hybrid cloud environment and an architecture for federal agencies that have stringent data requirements to improve performance, reducing IT budgets while improving operational efficiencies and security. The agency is proof that it is possible for one of the largest federal law enforcement agencies to maintain data control and governance while dramatically lowering costs using the cloud.
Company Highlights

Established in 2009 as an innovative Managed Service Provider delivering IT in an “as a service” model for federal and commercial customers.

Experience, expertise, and best practices securely migrating mission critical applications from on-premise data centers to private and public cloud.

FedRAMP authorized InSight™ SaaS and IaaS service platform used to monitor, manage, and optimize enterprise IT environments.

Capabilities

What We Do

Cloud
- Cloud Migration Readiness Analysis & Planning
- Cloud Architecture, Design, Engineering, & Security
- Private Cloud, Public Cloud, Community Cloud, Hybrid Cloud Architecture, Development, & Integration
- Integration of Machine Learning, Robotic Process Automation, & Artificial Intelligence
- Application Re-factoring, Re-hosting, Re-platforming
- DevSecOps Deployment
- 24x7 Cloud Managed Services
- Elasticity Engineering & Auto Scaling Automation

Cyber Security
- FedRAMP authorized Cyber Security Management Platform
- Identity, Credential, & Access Management
- Fully Managed SOC as a Service
- Hybrid/Co-Managed SOC as a Service
- Traditional SOC
- Incident Response
- Information Security Continuous Monitoring (ISCM)
- Vulnerability Assessment, Compliance, & Patch Management

Managed Services
- Network Monitoring & Management
- Storage Monitoring & Management
- Server & Virtualization Monitoring & Management
- Database Administration
- Service Desk & End User Support
- Unified Communications
- Event, Configuration, Change, Incident, Configuration, & Request Management
- Mobile Device Management
- Enterprise Backup & Recovery

Engineering Services
- Infrastructure Architecture & Engineering
- Data Center Consolidation & Migration
- LAN/WAN/Cloud Optimization
- Cloud Exchange
- Security Engineering
- Physical to Virtual Machine Migration
- Identify, Credential, & Access Management

Application Development
- Agile Software Development
- DevSecOps Continuous Integration, Continuous Development
- Application Re-Factoring, Re-Hosting, Re-Platforming
- Open Source Development
- Containerization
- Legacy System Modernization
- Machine Learning & Artificial Intelligence
- Big Data Analytics & Visualization
- Application Monitoring & Management

Infrastructure
- Network Engineering & Management
- Server Engineering & Management
- 24 x 7 Network Operations Center
- Help Desk and Call Center
- Desktop Support
- Unified Communications
- Storage Engineering & Management
- End-User Support

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Our Enterprise IT Operations Center (EITOC) uses an “IT Factory” model of repeatable processes and multi-tenant ITSM platform that significantly improves performance of IT operations on premise and in the cloud. 1901 Group has created high technology jobs in rural America and built truly scalable capacity to migrate mission applications to the cloud, while investing in our people and our community, all of which delivers real value to our customers.

1901 Group’s FedRAMP authorized In³Sight SaaS solution provides monitoring, management, and optimization of environments that span government-owned data centers, commercial data centers, and CSPs.

In³Sight incorporates 1901 Group’s data analytics capability where we have automated cloud provisioning and optimization through elasticity engineering which is used to optimize compute and storage costs across CSP environments.

In³Sight provides customer-facing SLA dashboards and KPIs for all 1901 Group provided managed services, and leverages a predictive data analytics platform that identifies performance issues at all level of the IT Infrastructure, and automates the creation of a ticket for root cause analysis and resolution before an unplanned IT Incident occurs.

Contract Vehicles

GSA Schedule 70

IT Schedule 70 is the largest, most widely used acquisition vehicle in the Federal Government. IT Schedule 70 is an indefinite delivery/indefinite quantity (IDIQ) multiple award schedule, providing direct access to products, services and solutions from more than 5,000 certified industry partners.

Schedule 70 provides:
- Information Technology
- Program Management
- Logistics and Engineering Support Services

Contract# GS-35F-0617W
SIN 132-40: Cloud
SIN 132-51: Information Technology Professional Services
SIN 132-52: Electronic Commerce
Prompt Payment Terms: 1%/Net 10

Partnerships, Certifications, and Authorizations

- Amazon Web Services (AWS) – AWS Partner Network (APN) Advanced Tier Consulting Partner
- Equinix – Gold Partner
- Microsoft Azure – Public Sector Channel Partner
- NetApp – Gold & CloudFirst Partner
- RedHat – Solutions Provider Partner
- ServiceNow™ – Managed Server Provider and Sales Partner

Pertinent Codes:

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