Healthcare Information Technology

Titania is a small business leader that provides Healthcare Information Technology (IT) services to the Federal government. This is critically important where Personally Identifiable Information (PII) and Protected Health Information (PHI) are involved. Our Healthcare IT experience includes the Centers for Medicare & Medicaid Services (CMS), Indian Health Services (IHS), and the Department of Defense (DoD). By working closely with these organizations, Titania has developed a deep understanding of government healthcare initiatives and legislation. We recognize that to be an effective partner to government healthcare organizations, we need to fully understand the respective mission and the program initiatives enacted to fulfill those goals.

Capabilities

- Automated test engineering of Federal Healthcare enterprise systems
- Healthcare expertise in Health and Human Services (HHS)/CMS security and privacy requirements and controls to include FISMA and HIPAA
- Agile implementation that conforms with IT lifecycle strategies and models
- Cloud deployment, operations, and maintenance leveraging "Infrastructure as Code"
- Development, Security, and Operations (DevSecOps) systems implementation
- Governance services, to include the development of policies, procedures, and best practices that are validated through audits
- Capability Maturity Model Integration (CMMI) and Lean Process improvement in the areas of healthcare software development and testing processes
- Architecture design and development of healthcare application Automated Test Frameworks (ATFs)
- Knowledge/information management of Healthcare IT data
- Development of analysis and metrics techniques and tools

CMS HCQIS Enterprise Integrated Supplemental Testing (HEIST)

- Provide subject matter expertise (SME) in CMS quality reporting systems through functional testing validation of more than a dozen applications and sub-components
- Develop data generation tools conforming to specific healthcare IT system requirements
- Possess deep experience with FISMA controls through security testing tasks and protection of PHI/PII data
- Leverage agile testing for health care systems for methodology variety
- Integrate testing of systems collection to ensure Healthcare IT interoperability

CMS HCQIS Independent Validation & Verification Services (HIVVS)

- Conduct IV&V testing, develop software testing strategies, and conduct total testing governance for more than 30 CMS Quality Reporting Systems

- Develop two key policy governance documents: the HCQIS Integrated Testing Model (HITM) and the HCQIS Testing Standard Operating Procedures (HTSOPs)
- Leverage test tool expertise for healthcare applications in HP Application Lifecycle Management (ALM), HP Unified Functional Testing (UFT), Selenium, TestRail, and Serena Application Lifecycle Management
- Provide architects and software developers for CMS' HIVVS Automated Test Framework using C# and Ruby
- Provide Agile and Agile-Hybrid SMEs for CMS software development and testing
- Embed agile team automated testing to shift testing left and find defects more quickly
- Develop governance documents articulating all policies and procedures for program contractors

DoD Joint Interoperability Test Command (JITC) Medical Community of Interest (Med-COI)

- Provide the DoD's JITC with test and evaluation senior-level expertise to support the Interagency Program Office (IPO) for integrated Electronic Health Record (E H R) Medical Community of Interest (Med-COI)
- Provide technical advisement to the Defense Information Systems Agency (DISA) on a range of relevant integration issues, including transfer formats and acceptable encryption ciphers
- Establish a common data dictionary to ensure that effective and accurate medical records were captured, stored, and transmitted; receipts were correctly received; and a baseline was created for future system integration

IHS Software Engineering Support Services (SESS)

- Provide software testing services for enhancements and newly developed modules within the Electronic Health Record (E H R) of the Resource and Patient Management System (RPMS)
- Support the Drug Enforcement Administration (DEA) initiative by ensuring that the software product is tested for applications prescribing controlled substances electronically, thus ensuring compliance with DEA regulations

About Titania

Founded in 2012, Titania delivers valued services to the Federal government in support of their most critical missions. In 2020, the company was acquired by Swish Data and operates as an independent business subsidiary. Titania professional services include Operational Intelligence and Training, Health Information Technology, IT and Program Management, and Test and Evaluation Services.

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