



# Healthcare Information Technology

Titania is a small business leader in providing Healthcare Information Technology (IT) services to the Federal government. This is critically important where PII and 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). Working 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 your mission and the program initiatives enacted to fulfill those goals.

## Capabilities

- Automated Test Engineering of Federal Healthcare Enterprise Systems.
- Healthcare expertise in 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.
- DevSecOps systems implementation.
- Governance services, to include the development of policies, procedures, and best practices, which are validated through audits.
- 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 (ATF).
- Knowledge/Information Management of healthcare IT data.
- Development of Analysis and Metrics techniques and tools.



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## **CMS HCQIS Enterprise Integrated Supplemental Testing (HEIST)**

- Subject matter expertise in CMS quality reporting systems through functional testing validation of more than a dozen applications and sub-components.
- Developed data generation tools conforming to specific healthcare IT system requirements.
- Deep experience with FISMA controls through security testing tasks and protection of PHI/PII data.
- Agile testing for health care systems leveraging a variety of methodologies.
- Integration 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.
  - 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.
  - Embedded agile team automated testing to shift testing left and find defects more quickly.
  - Develop governance documents articulating all policies and procedures for program contractors
- Conduct IV&V testing, develop software testing strategies, and conduct total testing governance for more than 30 CMS Quality Reporting Systems.

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

- Provide the DoD's JTIC with test and evaluation senior-level expertise to support the Interagency Program Office for integrated Electronic Health Record Medical Community of Interest.
- Provide technical advisement to the Defense Information Systems Agency 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 record capture, storage, transmission, and receipt were performed correctly and create a baseline for future system integration.

## IHS Software Engineering Support Services (SESS)

- Provides software testing services for enhancements and newly developed modules within the Electronic Health Record (EHR) of the Resource and Patient Management System (RPMS).
- Supports the Drug Enforcement Administration (DEA) initiative by ensuring the product is tested for applications prescribing controlled substances electronically to be compliant 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, program and data management, test and evaluation, and healthcare information technology. [www.titaniasolutionsgroup.com](http://www.titaniasolutionsgroup.com)

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