

# SpinSys Capabilities Brief

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# SpinSys Corporate Profile

## Our Company

SpinSys develops systems integration solutions for cloud based services, specializing in enterprise sustainment and modernization. We help create business intelligence from big data problems, harden systems to create an enhanced security posture and modernize complex legacy applications.

Headquartered in Northern Virginia, SpinSys has been providing information technology and cybersecurity to the Federal Government and the Fortune 500 since 1998.



## SpinSys Corporate Values

- Never Stop Learning
- Don't Optimize for The Short Term
- Be Transparent
- Go Above and Beyond

## Our Mission

We are in the business of creating time so our customers can follow their passion. We do this by being the premier small business systems integrator for cloud based services specializing in sustainment and modernization for the enterprise. By taking the complexity out of building and migrating applications into a private or public cloud, our always available solutions create time for our customers.

## Our Leadership

**Wael Ali**  
President & CEO



With over 25 years of experience in the IT industry, Wael has a unique ability to bridge business goals with technology enablers to produce value-based solutions. Wael promotes innovative product development using open source technologies to produce cost effective solutions and was the recipient of the 2013 Red Hat Innovation Award for Best Middleware Implementation.

**Shourya Ray**  
Chief Operating Officer



As the Chief Operating Officer, Shourya's focus is on aligning and scaling technology and business operations with organizational strategy. He also oversees sales and business development, commercial cloud product development, financial, legal and regulatory affairs, human resources, marketing, security policy, and communications.

**Chakib Jaber**  
Chief Technology Officer



Chakib manages the strategic and tactical direction of the software engineering teams. He is also responsible for directing software product strategy, software development and product deployment. With over 20 years of experience in enterprise software design and architecture and development, Chakib is also a subject matter expert in the development of financial, legal and medical software systems.

**Jamie Dahlum**  
Vice President, Navy Programs



Jamie oversees all aspects of the Department of Navy (DON) programs, from program level to relationship management to ensure successful delivery to our DON clients. With a background in cybersecurity, Jamie brings over 20 years of technical and management experience in information technology with a focus on defense programs including the Navy and the Air Force.

# Application Services

## Application Services Success

“ The case management system remains a very dependable system with no major faults because of SpinSys’ high quality of support. Given what I know today about the Contractor’s ability to execute what they promised in their proposal, I definitely would award to them today. ”

Contracting Officer  
Civilian Federal Agency

### Software Services

SpinSys combines disciplined SDLC processes, including a custom Agile methodology, earned value management and CMMI derived processes to provide a sustainable track record of delivering high-quality custom software development and integration on time and budget.

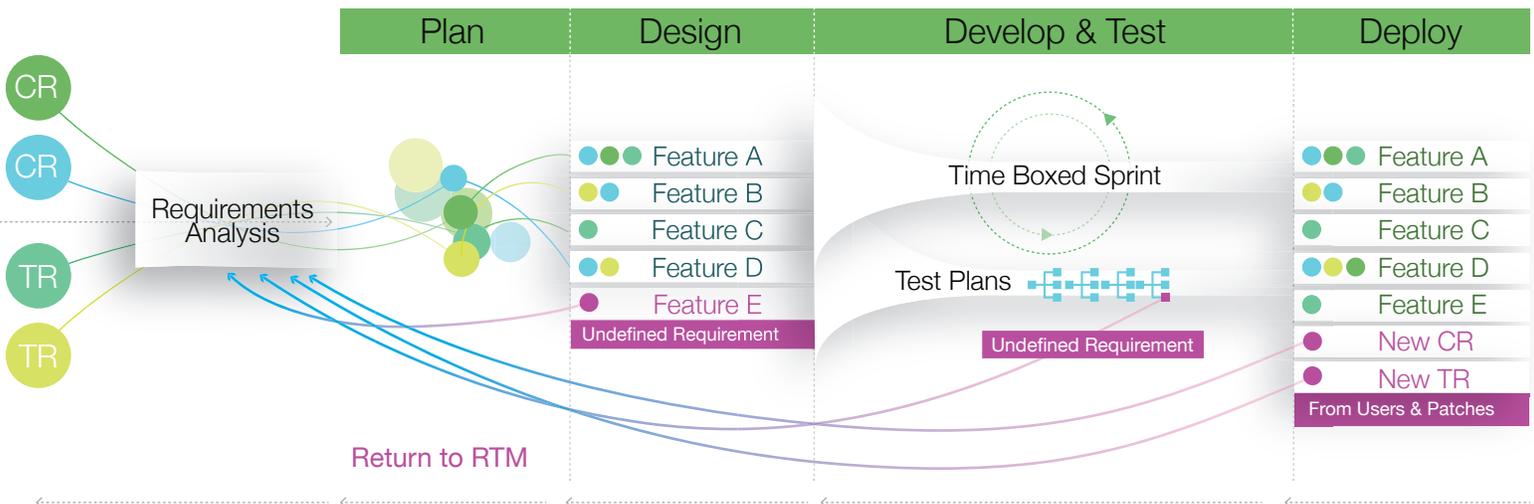
### Portal Frameworks

From agency-wide Government sites to commercial applications, SpinSys has designed, developed and maintained enterprise and scalable information management frameworks.

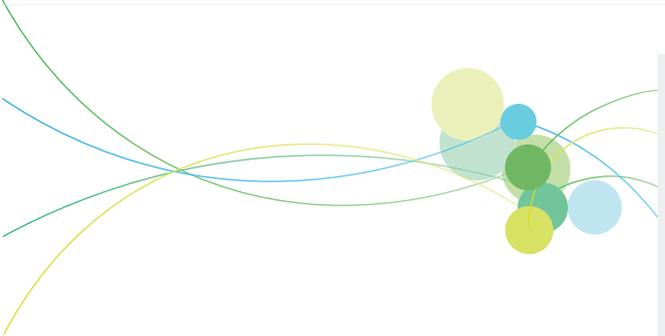
### Scalable Databases

SpinSys has developed and successfully deployed, at a major DoD agency, the Spin Data Aggregation and Collection Analytics (SDACA), a back-end platform that supports the collection of data from multiple, decentralized locations (including disconnected/intermittently connected modes), consolidating it into a centralized view that allows for real time analytics, reports, alerts and modeling. It can be used to connect the many “islands” of information from disparate interfaces through a Service Oriented Architecture (SOA), enabling the information to flow through the Enterprise Service Bus (ESB) and providing interoperability for multiple industry standard interfaces and protocols.

## SpinSys Agile Development



CR: Change Request  
TR: Trouble Request  
RTM: Requirements Traceability Matrix



## Application Services in Practice

SpinSys developed a portal based Matter Management and E-Billing systems for a Fortune 500 client to replace their legacy Case and Matter Management System. Our portal solution allowed enterprise wide access to manage the entire lifecycle of legal case management, including handling outside counsel billing and invoicing.

Using the Spin Business Framework Portal, SpinSys was able to field a customized portal solution for matter management and e-billing. Key features of this enterprise wide system at a Fortune 500 client included:

### 1 Dynamic Input Screens

A Smart Forms engine provides the capability to dynamically generate forms based on a predefined set of business rules that are set by the system administrator. This flexibility in generating forms allows for easy configuration and deployment of custom modules, and eliminates duplicative screens. The Smart Forms can also be generated based on user roles, thus allowing administrators to use a smaller set of basic forms to meet the various business needs. The flexibility to use the same screens in different context also allows for easier maintenance and reduced support costs with administrators having a smaller amount of data entry forms to manage.

### 2 Reporting Module

Provides a robust and flexible reporting engine that allows users to quickly configure and deploy reports. This flexibility is key to providing the data analysis tools that are needed for day-to-day business. The reporting module contains over 100 custom reports with a scheduling functionality so users can schedule reports to be run on a predetermined interval. The scheduler also has the ability to e-mail reports out automatically once they are run.

### 3 Workflow

A sophisticated workflow engine permits the routing of case matter within teams by using pre-determined access level by user and teams. Integrated security and audit trails coupled with an automated document retention policy guarantees corporate and regulatory compliancy.

### 4 Advanced Security Model

The flexible security model provides the capability to secure the system down to the field level. This robust security model allows the system administrator to configure and deploy modules for specific users, or user groups, by business area, or practice area. The same forms can be deployed in multiple formats to meet the various business needs.

### 5 Invoicing and E-Billing

Invoicing is used to track outside counsel invoices, attorney fees, billable hours, and time spent on each matter. Coupled with E-Billing capabilities, the application is able to upload and generate all invoices related to legal matters for outside counsel. Along with advanced reporting capabilities, users are able to generate ad-hoc reports and invoices directly from the interface, as well as high-level reports for the executive management.

### 6 Document Management Integration

Allows for easy integration with third party systems. For the customer, document management was used throughout the legal department to track matter-related documents. The integration between the application and the document management system provided the users with the ability to view all matter-related documents from one screen.

## Cloud Success

SpinSys successfully migrated the US Military Health System's Referral Management System application from a client-server framework, running on Air Force infrastructure, to the AWS Cloud platform.

# Cloud

## Integrated Solutions

SpinSys is an integrated solution provider for creating private and public cloud solutions for enterprise applications. As a technology integrator, we provide value added experience and services above and beyond what is offered directly by public cloud providers such as Amazon or Google.

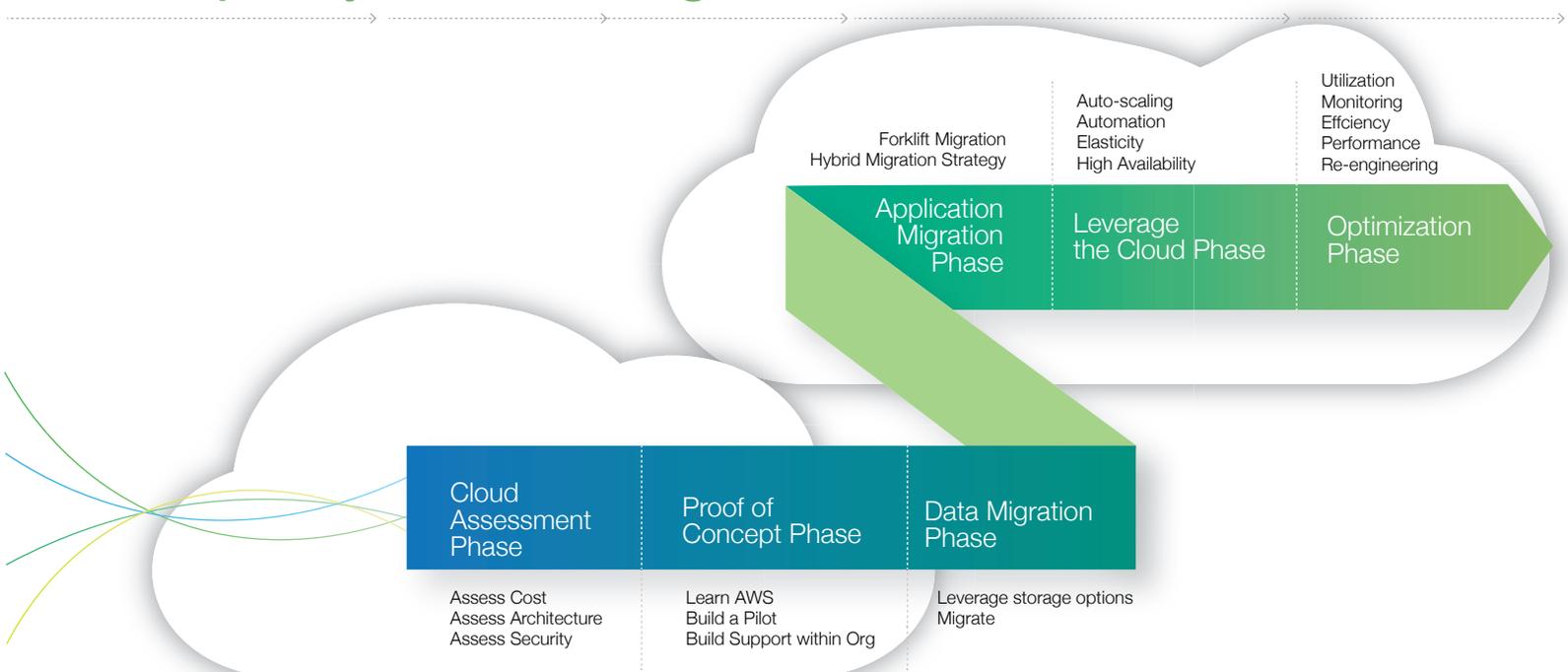
## Compliance

We also possess a deep understanding of our federal customer's compliance frameworks including DoD, FISMA, DIACAP, DCID, and other federal, state, and local mandates so we can architect the solution to match the cloud vendor's capabilities and maintain consistent security and governance standards across multiple platforms.

## Diversity

SpinSys provides a comprehensive range of cloud services including stabilizing and migrating legacy enterprise applications to clouds, developing migration plans and roadmaps, refactoring applications to take advantage of cloud features, and developing new cloud-based systems as needed. By offering a range of integration services and options to migrate legacy applications into a public or private cloud, we enable our clients to design hybrid solutions that meet their precise needs for security, collaboration, and virtualization. We are vendor agnostic and have a decade of experience working with VMware products. We are also an Amazon APN technology partner and the recipient of the 2013 Best Middleware Implementation award from Red Hat.

# The SpinSys Cloud Migration Process





## Cloud in Practice

SpinSys developed the Referral Management System (RMS) for the U.S. Military Health System (MHS) to allow expedited and reliable referral services between doctors and health insurance providers. The previous referral process depended on phone and fax exchanges and often created communication breakdowns that could lead to delayed diagnoses, unnecessary testing or poor continuity of care.

SpinSys developed RMS as a service oriented messaging system that handles all Medical Treatment Facility (MTF) to Managed Care Support Contractor (MCSC) for Department of Defense health insurance provider referrals and Right of First Refusal determinations.

Fully integrated with USAF Point of Care (POC) Systems, RMS eliminates the need for manual fax requests from the MTF level. RMS is a “business to business” application that integrates with no less than five large POC systems and processes approximately 1.5M referrals annually.

SpinSys successfully migrated the RMS application from a client-server framework, running on USAF infrastructure, to the AWS Cloud platform.

Application migration to the Cloud should be carefully evaluated for its ROI. Cloud computing offers many benefits over traditional on-premise computing solutions including but not limited to:

- Ability to auto scale up or down to match fluctuating demand for resources
- Overall lower Total Cost of Ownership (TCO) with no or minimal upfront cost
- Fully managed infrastructure services with high level of security, reliability and availability
- Higher team productivity and agility with automated and fast provisioning of infrastructure resources

However, not every application lends itself to a successful cloud migration and will fully recognize the benefits of the cloud. An upfront analysis of the application portfolio to identify best candidates for migration is highly suggested.

A deep dive into the candidate application to confirm development based on best practices is required. Applications may require updates, including design changes, before migration to the cloud. These steps should be taken to ensure the highest probability of success and highest ROI.

**Lower TCO and higher team productivity with a high level of security, reliability and availability**

# Big Data and Analytics

## Informed Business Decisions

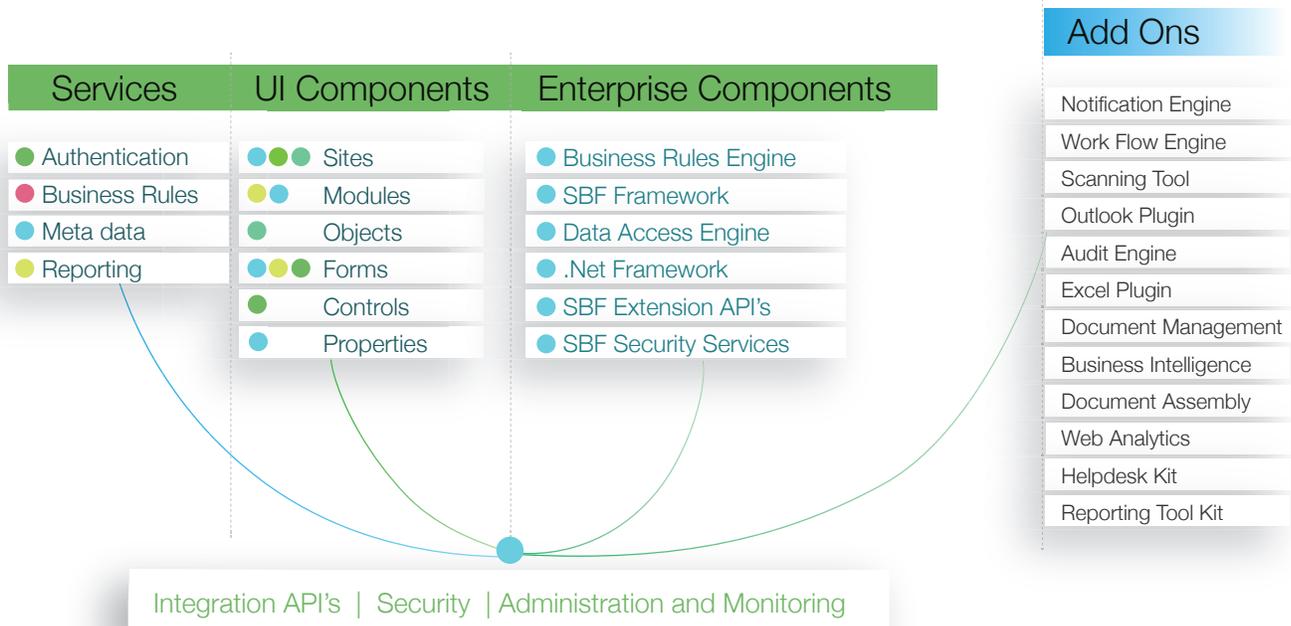
SpinSys specializes in big data analytics to help our customers make more informed business decisions by enabling data scientists, predictive modelers and other analytics professionals analyze large volumes of transactional data. By democratizing accessibility and analysis of data in near real time, we can help uncover hidden patterns, unknown correlations, market trends, and customer preferences. This will lead to more effective marketing, new revenue opportunities, better customer services, improved operational efficiency and make data intelligence a competitive advantage for your business.

## Big Data & Analytics Success

SpinSys deployed a data collection agent across a hundred military sites globally within six months. Today it processes more than a billion transactions per day and supports more than 35,000 users

- Applications designed to efficiently and smoothly collect, archive, display, transform, and process large structured and unstructured volumes of data.
- Cloud-based strategies to provide access to data no matter where it resides inside or outside the organization.
- Analytics suites that contain automated capabilities, an open architecture, and a standards-based framework necessary to support activity-based intelligence.
- Dynamic capabilities that enable data integration from across the enterprise without the need for a lengthy and costly rigid data warehouse integration.

# The SpinSys Business Framework (SBF)



# Big Data and Analytics in Practice

SpinSys helped a DoD client gather intelligence on how their enterprise application portal applications deployed globally across numerous SharePoint farms: where were the portal applications being used, what data was being accessed and who was requesting access. This information needed to be available in near real time to allow executive management to understand the utilization and expenditures across the enterprise, diagnose unnecessary testing and improve continuity of care.

## SpinSys created a business intelligence application to provide access to analytics.

The first step was to centralize the enterprise usage metrics into a single repository. This allowed the collection of data from each sharepoint farm in near-real time, moving millions of records into a central data repository for analysis. Once the data is moved into the centralized location, each data center can view and maintain their own data retention policies guaranteeing that no data is lost.

The benefit of a near real time BI helped the customer utilize the data to make future decisions on investments as well as improve the user experience across the enterprise. Some of these benefits include:

- Identify browsers, operating systems, and mobile devices for specific applications and tailor testing as development to meet the needs of the user community
- Diagnose and resolve performance bottlenecks
- Identify user trends of specific applications and develop tailored approaches as well scheduled maintenance windows to minimize downtime in a 24x7 operations
- Develop full understanding of how the user community is using each application and make funding decisions that are application specific
- Enhance data security by reviewing access patterns and better understanding how data is accessed and utilized
- Perform studies on effectiveness of training programs on applications, by examining how users are using the application post training session
- Identify orphan pages and error pages within the enterprise, and work with the different application owners to help address the issues
- Leverage data collected to assist in justifications for funding

- The solution included executive dashboards, analytics tools for analysts allowing them to cut and dice the data to answer a wide range of questions that could not be achieved by canned dashboards and reports.

The Analytics Explorer was developed with analysts in mind by providing online tools allowing analysts the ability to cut and dice data to answer a wide range of questions about the utilizations of applications across the enterprise as well as who and how users are accessing specific data. The Analytics Explorer allows analysts to access, format, and manipulate data without the need to write any code. By utilizing the power of Excel Services integrated with Microsoft SharePoint the Analytics Explorer is able to perform complex metrics and in-depth analysis against the multi-dimensional cube that contains the enterprise's data within a matter of seconds.

The data will improve future decision making ability on investments as well as improve the user experience

# Cyber Security

## Decades of Experience

Our decades long experience in supporting Department of Defense agencies have helped us develop technologies and solutions that help protect their vital networks and hosting enclaves against a spectrum of threats. Our services are tailored to the needs of the organization based on certification standards utilized for the Certification and Accreditation for DoD or NIST. We support organizations from all branches of the DoD; the US Army, Department of the Navy, US Air Force, TRICARE, and other federal agencies.

- Baseline network compliance - Baseline compliance of the system or network based on assigned MAC/CL
- Security engineering - Perform Security Engineering to enforce assigned IA Controls (DoDI 8500.2)
- DIACAP implementation plan - Plan and execute the DIACAP Implementation Plan (DIP)
- Certification and accreditation prep - Perform Certification and Accreditation (C&A) preparation
- DIACAP scorecard package - Create DIACAP Scorecard Package for submission to the Certification Authority (CA)
- Gap assessment - DIACAP Gap Assessment and Plan of Action and Milestones
- Defense-in-depth strategy - Enforce Defense-In-depth Strategy (DiD)

## Cyber Security Success

SpinSys secured DIACAP certification across several major Air Force applications, to meet DoD requirements, in record time.

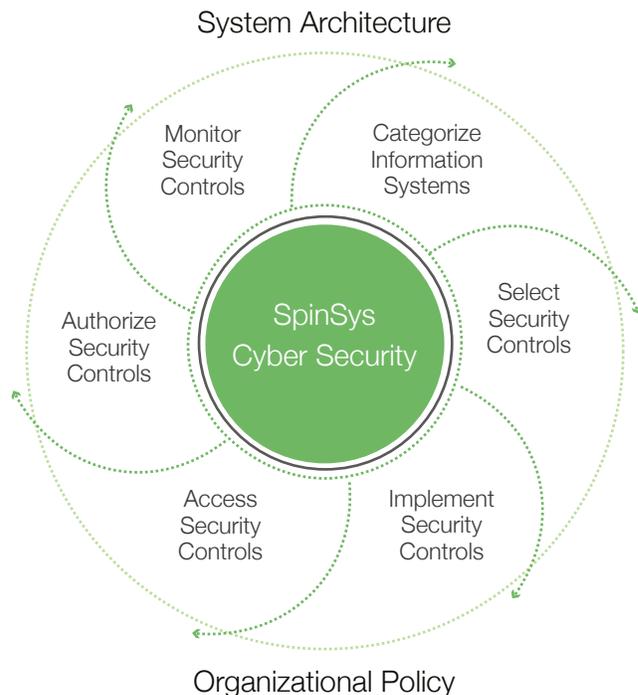
## Cyber Security in Practice

Our USAF client needed to achieve DITSCAP and DIACAP certification and accreditation (C&A) on two major applications.

Our security engineers are ISC2 Certified Information Systems Security Professionals (CISSP). In support of the United States Air Force, they have assisted at differing levels of compliance execution of the DIACAP Implementation Plan. Their efforts have resulted in obtaining and maintaining a positive accreditation decision (IATT – Interim Authority to Test, IATO – Interim Authority to Operate, and ATO – Authority to Operate).

- **Analysis**  
Of the application architecture and documentation to better understand and evaluate risk
- **Application Vulnerability Assessment**  
and remediation and mitigation planning
- **Application Security Assessment**  
Integrating technical layered defenses
- **Maintaining Situational Awareness**  
Continuous monitoring throughout the SDLC phases
- **Testing and verification**  
Both manual and automated with partner tools

## Cyber Security Framework



# IT Managed Services

## Software Services

SpinSys uses a highly disciplined, yet agile, SDLC to respond to unpredictable and changing requirements with incremental, iterative work cadences, that shows transparency and continuous progress to the customer.

Our services run the gamut of the SDLC: software design and concept development, requirements definition, development and implementation, testing, deployment and maintenance.

We provide:

- Integration and development
- Excel in offering systems integration services with commercial off the shelf products with value added custom software development
- Legacy modernization
- SpinSys offers an accomplished record in sustaining legacy

## Portal Frameworks

SpinSys offers secure, robust, configurable web portal framework solutions. From agency-wide Government sites to commercial applications, SpinSys has designed, developed and maintained enterprise, scalable information management frameworks that allow organizations to:

- Migrate legacy implementations to modern web based application and integrate with third party applications
- Allow secure access of multiple applications through Single Sign On capability
- Easily configure business rules and processes
- Define a workflow with adjustable business rules
- Consolidate and standardize disparate applications and eliminate silos

SpinSys was able to help the Air Force realize a 75% reduction in hardware resources

# SpinSys Current Worldwide DoD Support



# IT Managed Services in Practice

The US Air Force needed help to consolidate physical, legacy, commodity servers into virtual resources in order to reduce acquisition and maintenance cost, manpower requirements, and shrink the overall footprint and management costs.

The Department of the Air Force, Air Force Surgeon General's awarded this contract to SpinSys to acquire Information Management and Information Technology Enhancement/Development services for the COHORT system including maturing the referral management applications to support the Modernization Division (AF/SGRM) and the Air Force Medical Service.

The Air Force tasked SpinSys to acquire Information Management and Information Technology Enhancement services for the COHORT system including maturing the referral management applications to support the Modernization Division and the Air Force Medical Service. SpinSys organized resources and personnel needed to effectively meet the objectives of each task, as well as exploring new approaches to gain efficiencies. Project activities included project management, customer calls and support, software planning and development, configuration management, controls, and documentation, reporting and functional analysis services, network, hardware, application, and component, testing, evaluation, and deployment.

SpinSys maintained system software to include, complete system rebuilds, any table updates, interfaces, remote training, problem resolution in coordination with local facility administrators, the Program Office, and other agencies/offices. All changes to the source code were documented with change requests in the approved Project Office format and system. The project team provided technical support for the Air Force, AFSGR, AFIOH, and other approved customers.

The project team also provided support for the maintenance of network, hardware, software and items for the current operations and systems delivered during the period of performance of this order to include: analysis of problem or change requests, preparation of resource estimates and schedules to effect necessary changes, design and code changes, conducted testing of all changes, complete and/or update all documentation affected by the required change(s), and coordination of change implementation through appropriate approvals as required by the customers configuration management procedures. SpinSys developed a Contingency and Continuity of Operations Plan (COOP) to specify planning for the remediation of specific systems, equipment, software, and/or operations in the event of critical impact resulting from natural, accidental, or intentional events.

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1.6 billion transactions were performed daily in near real time.

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# System Modernization

## On the Leading Edge

As cloud, mobility and big data gather momentum, now is the time to consider your systems modernization options. Properly managed, a system modernization effort can be a low-risk and cost-effective process to maximize your return on current and future investments while maintaining your enterprise goals.

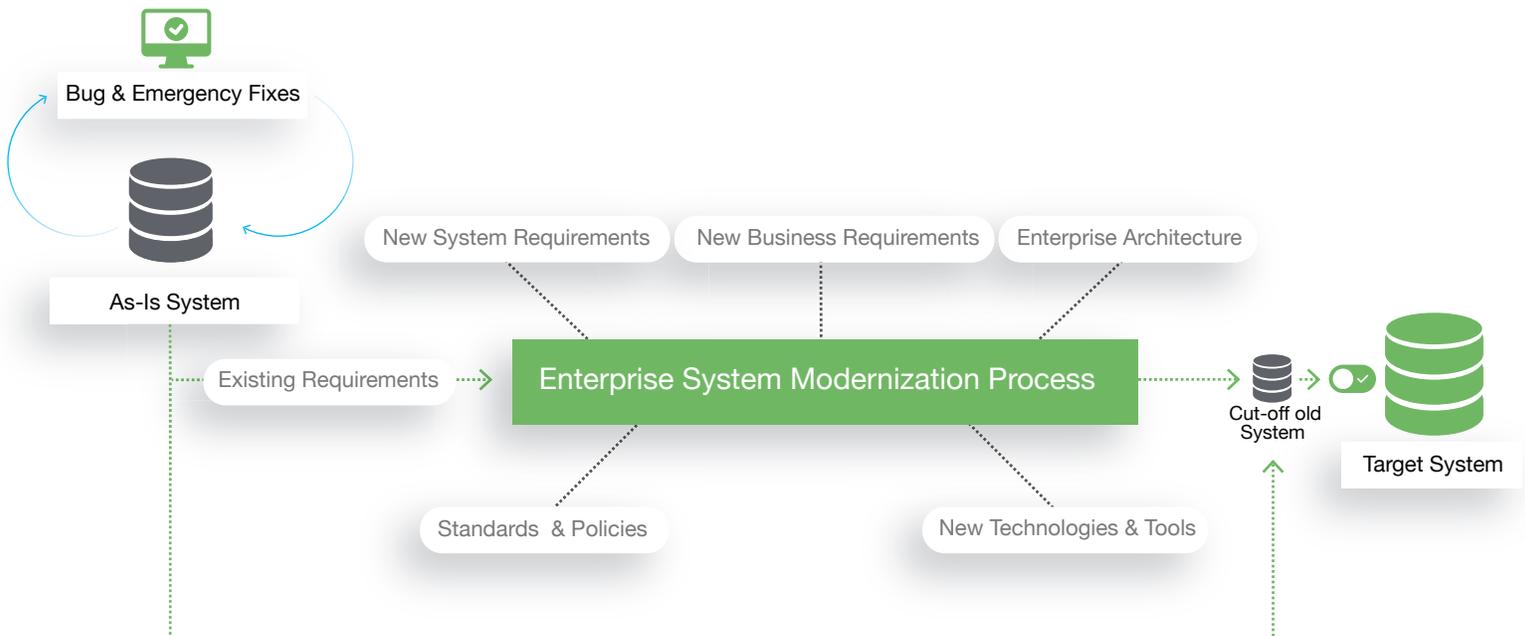
Legacy systems are the backbone to any company's technical infrastructure. By nature, they are successful, mature, and have been in existence for a long period of time. Though these systems thrive, they are hobbled by outdated technologies that are no longer supported by the OEM and may also lack the ability to interoperate with your contemporary systems in the cloud and on mobile devices. Rather than considering a wholesale technology reboot, consider embarking on a system modernization journey, that when strategically planned and properly managed, can be a low-risk, cost-effective way to conserve your critical intellectual property and maximize investments.

SpinSys has decades of experience in modernizing legacy systems, and has developed a proven methodology for legacy system sustainment and simultaneous improvements utilizing manual and automated processes. Our holistic approach is both future oriented and considers your enterprise goals.

## System Modernization Success

At the Department of Navy, SpinSys built out new environments achieving Authority To Operate (ATO) in a record time of 3 months.

## SpinSys System Modernization Process



# System Modernization in Practice

The US Department of the Navy (DON) needed to modernize their legacy asset management enterprise system. This need was uncovered as part of an audit and a baseline assessment that showed that the legacy system did not meet DoD security guidelines.

SpinSys migrated the systems away from the legacy hardware and as per customer guidance, the systems was moved to commodity hardware with full SAN storage capability, in the Navy's Enterprise Data Center (NEDC) in Charleston, SC. In addition, all services were virtualized to further increase the operational efficiency of the hardware. This addressed several concerns but most importantly, it provided the ability to better leverage the hardware resources and used in combination with the SAN resources, to reduce the incidence of outages due to hardware failure. The following current hardware security gaps would be met with the relocation of the systems to the NEDC: current vendor support (warranty), virtualization of the systems (redundancy), fault tolerance/high availability (live maintenance capabilities), SAN Storage (increased uptime, performance and data integrity) and scalability (on-demand resource allocation).

With the program stabilized, SpinSys moved on to the secondary phase of modernizing legacy technology. The technology upgrade was accomplished via requirement management, including fit/gap analysis, software configuration management, as well as the development of Reports, Interfaces, Conversions, Extensions (RICE) objects, and their minimization.

All change requests were implemented in agreement with DON CIO and DoD CIO Product Management stakeholders, via Configuration Management processes architected and implemented by the customer. Our active participation in the Change Configuration Board (CCB) sessions, as well as follow-up meetings with individual feature stakeholders, and descriptions of the changes to be implemented via our Spin Application Lifecycle Management (SALM) portal, were essential parts of our Requirement Management strategy and success.

Among their major features, included a re-design of the DON EA (Department of Navy Enterprise Architecture) review process, impacting the database, user interface, business logic, reports and metrics. Due to the fact that the vast majority of US Navy IT systems is subject to the DON EA review, until final signoff by the DON CIO, we paid particular attention to regression testing, and data migration.

A successful implementation was architected and executed using a rolling wave pattern, allowing for early release of individual features, minimizing rework, and proactively raising the bar in terms of quality and timeliness. Our Agile approach favored an open dialog with the final stakeholders when re-visiting each Change Request for further requirements analysis, and going through multiple Walkthroughs during and after the implementation phase, to ensure correctness, enforce quality, and reduce subsequent rework.

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SpinSys modernized the asset management portal at the Department of Navy to track 100,000 assets and service 10,000 users

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# Contract Vehicles

SpinSys is a Delaware registered small business with headquarters in Northern Virginia.

- Dun and Bradstreet Number (DUNS): 82-908-8116
- CAGE Code: 3ED90
- NAICS Classifications: 541512, 511210, 518210, 541330, 541511, 541513, 541519, 541611, 541990, 611420
- SIC Classifications: 737, 7373, 7379

## GSA IT Schedule 70

Contract #:GS35F0598N  
SIN 132-51 – IT Professional Services  
SIN 132-56 Health Information Technology (HIT) Services



## SeaPort-e

Contract #:N000178-14-D-7498  
Period of Performance: 4/2013 - 4/2019

**SeaPort-e**

## JITC (DoD)

Subcontractor to Smartronix, Inc.  
Contract #:HT001-12-D-0003  
Period of Performance: 6/2012 - 6/2019

## T4 (VA)

Subcontractor to ASM Research, Inc.  
Contract #:VA118-11-D-1011  
Period of Performance: 5/2014 – 5/2019

## CIO-SP3 (NIH)

Subcontractor to LGS Innovations, Inc.  
Contract #:HHSN316201200033W  
Period of Performance: 6/2012 – 6/2022

## TEAMS (MHS)

Subcontractor to Booz Allen Hamilton, Inc.  
Contract #:W81XWH-08-D-0025  
Period of Performance: 1/2012 – 1/2018

## CATS (USAF)

Subcontractor to Booz Allen Hamilton  
Contract #:FA8053-12-D-0002  
Period of Performance: 2/2012 – 2/2017

## ITSS-4 (DOJ)

Subcontractor to QinetiQ, Inc.  
Contract #:DJJ11-C-2165  
Period of Performance: September 30, 2017

Let's Talk  
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