

# E CYBER7

Rapid Acquisition  
Facilitation Tool  
Capability  
January 2023

## E Cyber7 Capabilities Overview

E Cyber7 possesses proven expertise in information systems, information assurance, information technology, data analytics, program, and product management as mission enablers for government operations. We understand the mission of the federal government to deliver in-depth knowledge in engineering, software development, and network security processes. Our innovative, industry leading solutions have provided customized products which are revolutionizing how the government procures and analyzes its data. As a result, organizations are better equipped to take advantage of evolving technology implementing automation and Artificial Intelligence (AI) and Machine Learning (ML) capabilities to utilize and protect their resources to improve business outcomes more effectively and efficiently. With cyber certified employees (CISSP, Security+, CEH), E Cyber7 provides solutions with expertise in Agile software development, cyber engineering and integration, and systems analysis and design. Our capabilities span the full Software Development Lifecycle (SDLC), from concept definition to operations, which will enable us to holistically manage software design and development, as well as operational and maintenance support services for the Enterprise Solution and its components and services.

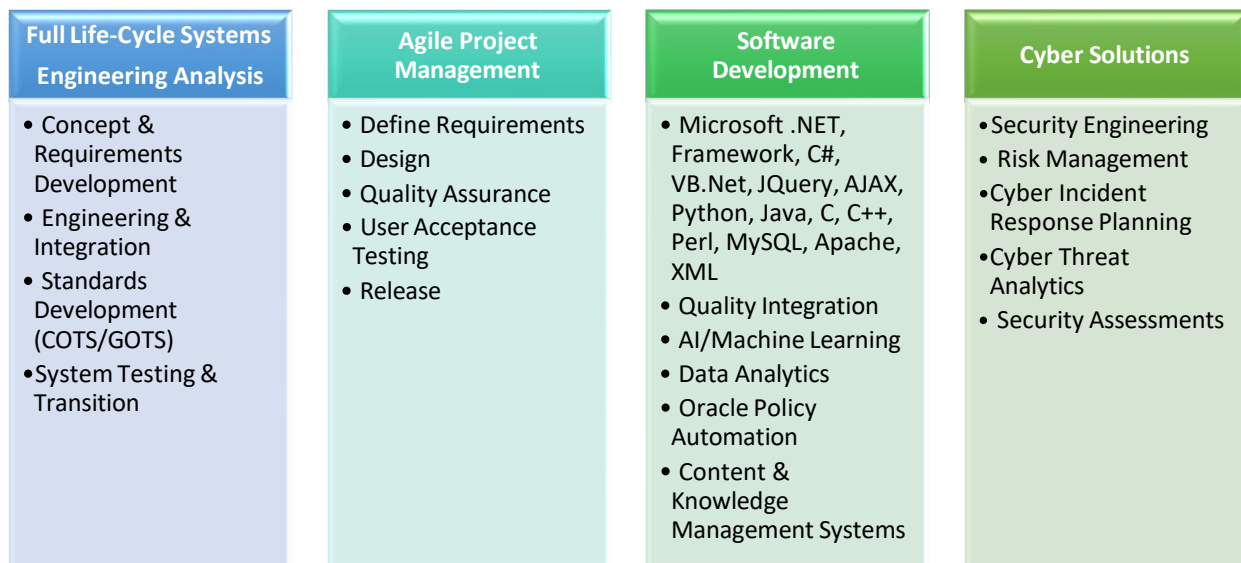
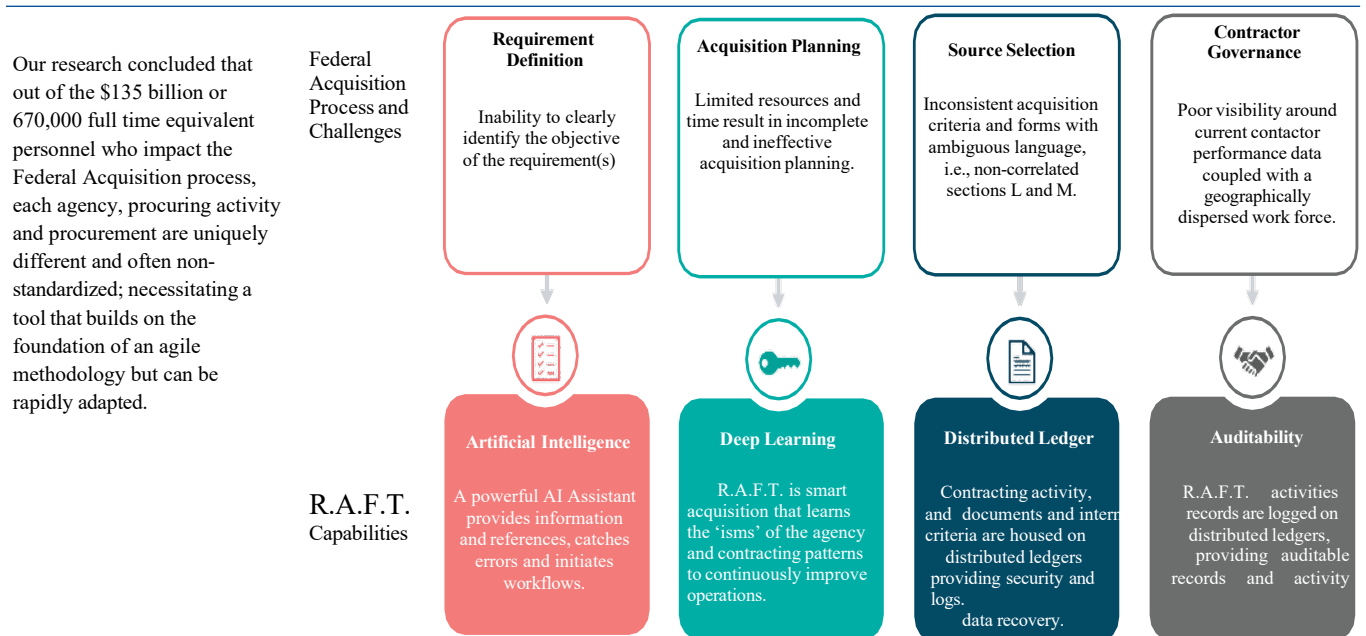


Figure 1: E Cyber7's Core Capabilities

Federal agencies have been searching for comprehensive emerging tech-empowered tools to support an agile acquisition process. E-Cyber7 has developed the Rapid Acquisition Facilitation Tool (R.A.F.T.), to provide agencies with a collaborative, iterative, and agile approach to Federal acquisition. Artificial Intelligence (AI), deep learning, advanced analytics and distributed ledgers facilitate improved collaboration, knowledge transfer, transparency while also providing Agency leadership with clear, concise, and auditable management reporting metrics in a real-time environment. R.A.F.T. was developed to overhaul the disconnected, siloed systems, people, and processes by creating an intelligence-driven collaboration hub packed with agency-tailored tools, resources, and templates.

## Acquisition challenges



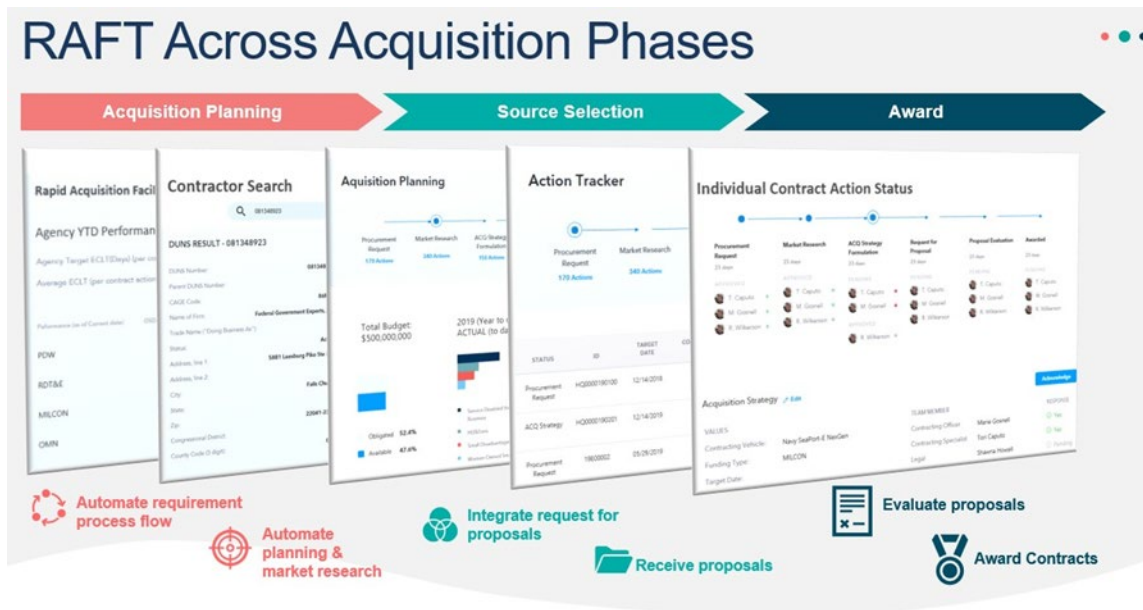
**Figure 2: E-Cyber7's R.A.F.T. Capabilities**

R.A.F.T. supports the acquisition workforce and the regulatory process, enabling contracting and non-contracting professionals to collaborate on requirements definition. R.A.F.T.'s AI and collaboration abilities are built on a powerful data integration platform that provides a seamless link to any current or previous procurement or program data set(s), irrespective of its native format.

Through deep learning processes, R.A.F.T. learns the patterns and behaviors of each agent and begins to streamline the acquisition process based on conditions presented during the contracting process. R.A.F.T. leverages a patent-pending deep learning programming language developed by Coral's MIT founders which enables speech recognition and discrimination of erroneous data and artifacts that may cause issues in the procurement process. For example, preventing the contracting team from using ambiguous or 'highly disputed' language that is likely to set off a protest.

R.A.F.T. generates real-time questions and feedback to each member of the acquisition team to simplify the process of selecting which of the sixteen procurement methods is most appropriate for a given acquisition. For instance, R.A.F.T. might identify that a given acquisition is best performed via non-traditional routes, such as OTA, and provide related references, similar documents, and contact information for other knowledgeable professionals to facilitate rapid preparation of required documents.

R.A.F.T. enhances transparency in the acquisition lifecycle. The data integration hub gives insight on various data metrics regardless of the contracting type or procurement method (i.e., cost v. fixed, or letter-contract v. task order level). This versatility allows contracting activities, policy makers and auditing agencies access to both procurement data (i.e., PDII) and its substantiating resource data source (e.g., Defense Agency Initiative) at the contract action level.



**Figure 3: E Cyber7's R.A.F.T screenshot**

E Cyber7's leadership team has many years of trusted industry experience consisting primarily of members who possess security clearances from the government and/or military services. They have held key leadership positions in the areas of software development, information security, cybersecurity, risk management, data science, education, and DAWIA/PMP program management, industry, and academia. More importantly, they bring these skills and experience to shape each program E Cyber7 supports.

In addition to our technical skills, E Cyber7's leadership includes members who have held education and training leadership positions within academia and government. They are experienced in developing curricula, incorporating instructional technologies, and delivering training globally, utilizing a variety of delivery methods (e.g., in-person, online, etc.). They have also managed and trained educators and led corporate data science literacy efforts for government and academic personnel to gain insights from data.

### **E Cyber7 Past Performance**

E Cyber7 offers capabilities in software development, program and product management, testing, system security and compliance, user training, user engagement, service desk support, service maintenance based on experience supporting the DoD programs.

E Cyber7 is currently delivering to the Knowledge Management System cloud-based analytic platform designed to track and manage commercial medical products.

AI software tool provides intelligent analytics and includes self-service access tools that enable users collect relevant data on the current product inventory, including vulnerabilities and other security features, without compromising the sensitive data associated with those products. It includes four personas that are restricted based on security controls and a need to know with role-based access to information and features, customizable dashboards, workspaces that facilitate collaboration for designated user groups, and a Support Request feature. With access to this data in a centralized place, stakeholders throughout our client's environment can now deliver timely and accurate information needed to make decisions which are vital to their business practice which aligns to government needs to implement a single agency wide solution that will provide a corporate view of the Acquisition portfolio.

### **Software Development, Infrastructure Management, Technical Management, and Information Assurance compliance**

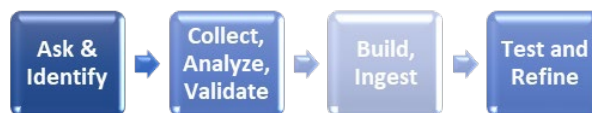
Throughout the software development effort, E Cyber7 worked closely with our clients' personnel through an Agile approach to define and clarify requirements, develop functionality to meet those needs, and test and assess new features as they were added to the platform. E Cyber7 used a proven process for gathering, refining, and implementing requirements. E Cyber7 applied a rigorous approach that involves decomposing, verifying, and certifying requirements by leveraging knowledge management questions to provide solutions to our clients.

Leveraging multiple data sources to conduct data mining efforts to gather data into a structured format was an ongoing task that E Cyber7 provided based on the condition of the data that was provided for the platform. E Cyber provided the staff and experience based on efforts on clients to condition any type of data to provide a finished product that can be ingested into a database

E Cyber7 provided clients with data conditioning expertise, which is a structured collection of steps to analyze, identify, collect, manipulate, and align product data from its native state to a condition that enabled the client's software application to "accurately report" product information as bounded by Knowledge management questions and user interface requirements.

E Cyber7 conducts the steps below to condition data:

1. Analyze each Knowledge Management Question
2. Identify the data and product attributes required to be able to answer each question.
3. Identify the sources of data required to represent product attributes and answer the question.
4. Collect the data from various sources.
5. Analyze the data to include identifying conflicts, duplication, and missing data.
6. Validate the data to ensure accuracy and resolve conflicts in data.
7. Build the analytic logic required to manipulate the data sources and resulting data in preparation for reporting.
8. Ingest the data in the system.
9. Test the system against the baseline Knowledge Management questions for accuracy, consistency, and completeness.
10. Refine analytics and data mapping based on testing.
11. Refine reporting based on user input.



**Figure 2: Overview of E Cyber7's Data Conditioning Process**

E Cyber7 developed a test plan to detail the baseline functionality within scope of the functional, non-functional, and derived requirements.

- Testing focused on meeting the business objectives, cost efficiency, and quality.
- Consistent procedures for all teams supporting testing activities were developed.

- Testing processes were defined, yet flexible, with the ability to change as needed.
- Testing activities were continually developed based upon previous stages to avoid redundancy or duplication of effort.
- Testing environment and data emulated a production environment.
- Testing was repeatable, quantifiable, and a measurable activity.
- Testing was divided into distinct phases, each with clearly defined objectives and goals.
- There were entrance and exit criteria.

## **System Security and Compliance**

E Cyber7 performed system and security compliance in support of programs. E Cyber7 reviewed technical security requirements to identify points of vulnerability, non-compliance with established Information Assurance (IA) standards and regulations and recommend mitigation strategies. E Cyber7 performed assessments of the AI software tool to identify where the platform deviated from acceptable configurations, enclave policy, or local policy. This was achieved through passive evaluations such as compliance audits and active evaluations such as vulnerability assessments. E Cyber7 validated and verified system security requirements definitions and analysis and established a secure system design. E Cyber7 assisted in the implementation of the required policy, made recommendations on process tailoring, participated in and documented process activities. E Cyber7 performed analyses to validate established security requirements and to recommend additional security requirements and safeguards. E Cyber7 supports the formal Security Test and Evaluation (ST&E) required by the government accrediting authority through pre-test preparations, participation in the tests, analysis of the results and preparation of required reports. E Cyber7 documented the results of Certification and Accreditation (C&A) activities and technical or coordination activity and prepared the System Security Plans (SSP) and manage/update the Plan of Actions and Milestones (POA&M). Perform Continuous Monitoring (CONMON) activities throughout the lifecycle of the system. E Cyber7 supported security authorization activities to include Initial Authority to Test (IATT) and Authority to Operate (ATO) requirements.

## **Support Customer Care**

E Cyber7 engaged stakeholders several times each week through hands-on technical exchanges and program status meetings, as the AI software tool is customized and repeatedly updated based on changing leadership priorities throughout the product management process. User engagement and feedback will facilitate these weekly exchanges and meetings to ensure that a continuous feedback loop was established to meet customer expectations and to meet requirements.

## **User Training**

E Cyber7 creates user training and other supporting documentation to assist customers with using and maintaining the AI software tool. E Cyber7 provides the following training methods to Users:

- Training Video (walkthrough for users to gain understanding of the platform without instructor).
- User Guide (provides users detailed instructions for steps to manipulate inventory for desired information and curated results).
- Data Dictionary (defines the data attributes utilized).
- Instructor-led training can be provided to users upon request.



## **Project Management**

E Cyber7 manages Program consistent with the Program Management Institute Project Management Body of Knowledge (PMBOK) and the Defense Acquisition Management Framework. E Cyber implements the PMBOK-based “Plan, Execute, Monitor, and Control” approach to manage the contract. E Cyber7’s Program Manager manages the program utilizing approved the Program Management Plan and Communication Plan. In support of the program, weekly meetings, monthly status reports, quarterly Program Management Reviews and Contract Deliverables (CDRLs) will be leveraged to ensure Government stakeholders are engaged with all aspects of the program’s progress and status.

## **Product Management**

E Cyber7 used a Scrum based agile development process for its programs. This process provided customers an iterative and incremental model flexible enough to adapt to changing needs and user priorities, complexity, and risk throughout each iteration. We use daily scrums to maintain synchronization amongst the stakeholders, development team and leverage planning sessions with the customer to constantly reevaluate development priorities. Development was done in short 2–4-week recursive Sprint cycles. All issues, users’ stories and epics were captured in one tool. E Cyber7 uses the same tool for bug tracking to capture all relevant details, including descriptions, severity level, screenshots, and versions of the bug. E Cyber7 uses the below approach for its program.

## **Services Maintenance**

E Cyber7 manages user accounts and roles to ensure all user account provisioning and approvals are authorized by stakeholders. E Cyber7 is responsible for all platform enhancements, debugging, repairs, build, release, testing and security support to ensure the tool meets the document requirements based on mission and stakeholders needs. All updates and maintenance are coordinated with Stakeholders, and all releases are approved prior to deployment on the customer’s network. E Cyber7 incorporate configuration management (CM) into our systems engineering approach to establish and maintain the consistency of performance, functionality, and physical attributes with its requirements, design, and operational information throughout the life cycle. Configuration Management (CM) provided a formal and disciplined approach for defining and documenting requirements, control changes, provide current and accurate baseline accounting and supporting the verification process to assure that the final product meets the baseline requirements. The CM program is developed for all elements of the AI software tool repository.

E Cyber7 has a “Best in Class” GSA STARS III contract vehicle (to make life easier for government client to meet their small business needs.

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