Information Innovators Inc.
A Service-Disabled Veteran-Owned Small Business

Enterprise Services

Common Food Management System (CFMS) Web Portal

Customer: Defense Logistics Agency (DLA) | Period: 2/1/2005 – 9/30/2006

Why Triple-i?

Qualified civilian and defense industry experience

Proven implementation with the most advanced Web development and testing tools available

Design and development with future needs in mind

Customer-focused, value driven management approach

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Customer Profile

The Defense Logistics Agency (DLA) is a U.S. Department of Defense (DoD) agency that provides wide-ranging logistical support for peacetime and wartime operations, as well as emergency preparedness and humanitarian missions. The agency currently employs over 28,000 civilian and military employees working in 50 states and 28 foreign countries.

Business Challenge

Over the years, some of DLA's infrastructure resources have become underutilized in providing logistical support. This has increased operational costs and increases the potential that technologies will remain in production beyond their useful life. This increases the risk of outages and interruption in operations as technologies age.

Our Solution

Triple-i was engaged to manage and conduct all activities associated with the technical planning, functional design, development and construction, implementation, and ongoing sustainment of the CFMS Web portal. The new portal will provide a secure user interface integrating all aspects of food management with newly developed and legacy food management systems.

Because CFMS is a new system with significant business changes resulting from the integration of all military services, it is expected that additional future enhancements will be required. This requirement has influenced the tools that Triple-i recommended to DLA management. Triple-i's goal was to propose a technical environment that would not only allow for the rapid initial development of the portal, but also allow for the efficient ongoing enhancement of the portal. Triple-i also selected Web development tools that would allow for a small, effective team to collaborate on all design, development, and testing activities.

The following is an overview of the major activities associated with the Web portal that Triple-i is performing:

- **Development of Architectural Approach:** Triple-i has developed the architecture and recommended the technologies that will be used to develop the portal. The business drivers that influenced the selection of the tools were currency of technology and the ability to rapidly develop the portal from the design components to a fully testable model. The frameworks adopted are Spring, Hibernate, and JavaServerFaces (JSF), due to the flexibility and expandability that these technologies afford. Triple-i has also applied a concept that confines the business logic to a single tier, which will allow for accelerated enhancement of future functionality of the portal.
- **Development of Architectural Artifacts:** As part of the development of architectural artifacts, Triple-i performed an OOA (Object Oriented Analysis) to determine classes, developed UML class diagrams, and used code generators to translate classes into Web tier, business, and database components.
- **Definition of User Customization Components and User Roles:** This activity will define the user functionality by role and insure only authorized users can perform certain tasks.

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- **Security Planning:** The security requirements are under discussion. The portal is designed to utilize Public Key Infrastructure (PKI)
- **Development of Portlets:** The portlets are equivalent to Web applications. Triple-i has introduced JSF (javaServerFaces) technology into construction of the portlets.
- **Development and Construction of the Portal:** Triple-i will develop and test the portlets using the most advanced components available.
- **Portal Testing:** This will include all testing from unit testing through full integration testing in conformance with the DLA testing guidelines prior to implementation. This will also include a comprehensive testing of the interfaces to the legacy systems.

The technologies recommended by Triple-i and accepted by DLA management include some of the most advanced Web development and testing tools available, including:

- WebSphere Portal 6 on WebSphere 6 Application Server (IBM products)
- RAD7 Development Environment (IBM product)
- Spring
- Hibernate
- JavaServerFaces (JSF)
- Testing components such as junit, jmock, and integration testing

Other Customers

In addition to providing Enterprise Services to DLA, Triple-i has also provided services such as testing, systems administration, SAN architecture, portal and oracle development, interface development, and help desk support. Triple-i has also provided Web design and development, software development, and independent verification and validation (IV&V) for the Defense Contract Management Agency (DCMA).

To find out more about these and other contract services, visit our website at www.iiinfo.com or contact sales@iiinfo.com.