

**Everware-CBDI
Agile Modernization
Engagement Case
Studies**

U.S. Government Agency
Supporting a prime Integrator and their Agile development team, Everware-CBDI developed a service architecture and delivered a MDA/MDD generated codebase. The effort delivered 42 User Stories requiring 75 web pages in a 16-week accelerated task and included service integration of COTS functions.

Global Retailer
Everware-CBDI was engaged to transform a legacy application to Java targeting Ibatis, a new persistence framework. Models and generated code were adjusted to incorporate Ibatis and applied to the legacy database. The architectural patterns and code templates were then adopted by the client's offshore development staff.



Agile Modernization

Consulting Service Offering

Many organizations have successfully applied Agile software development methodologies to delivering new application functionality. But increasingly, the business demand to reduce the excessive cost of application ownership and to respond to business process improvement initiatives is driving broad-scale application modernization to rationalize, re-architect and service enable core capabilities.

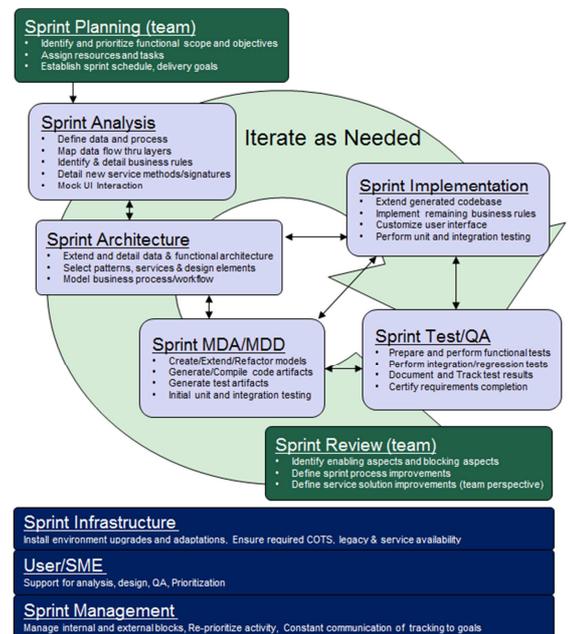
The de facto approach to application modernization is still traditional “big bang” software replacement – yet that approach is widely viewed as high-cost, long delivery cycle, and high risk because of a disturbingly high failure rate. Organizations are demanding faster results and lower-risk investments as they modernize their software portfolio. However, the dynamic nature of the Agile methodology is often viewed as at odds with the transition engineering required to fundamentally modernize application portfolios.

Everware-CBDI has successfully integrated key principles of Agile methodologies, in particular rapid, frequent delivery and Scrum techniques, within its Service Oriented Application Modernization (SOAM) practice. The unique and powerful combination of Agile with Service Oriented Architecture (SOA) and Model-Driven Development (MDD) provides the structure, standards compliance and consistency required for modernizing legacy portfolios with rapid and efficient solution delivery.

Service Description

Everware-CBDI’s Agile Modernization approach leverages User Stories and Service Architecture to organize large projects into collections of functionality delivered as sprints. Architecture is key to establishing units of work and the interfaces that connect them creating a scalable foundation ensuring that sprint products can be consumed and deployed with optimal reuse and minimal rework.

Our sprints usually consist of multiple-track teams collaborating to produce the elements required by the in-scope User Stories. User Interface and Service Provisioning teams include modelers who leverage MDA/MDD tools to rapidly generate an operational codebase that is then extended by Agile developers with User support. Other teams are focused on data migration and legacy integration in support of incremental delivery of functionality as appropriate. Activities within the sprint are very dynamic with experts tapped to resolve blockages, continuous testing/QA, and iteration back through modeling and even architecture as appropriate. In modernization efforts, business requirements are harvested from legacy assets, refined with user input, and captured in more accessible and dynamic mediums such as models and rules engines. Knowledge discovery and preservation are critical components of successful modernization projects.



Typical Agile Modernization Sprint Cycle

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Everware-CBDI transformed two legacy applications, one client-server and the other mainframe-CICS, to Java with a browser-based UI. Many patterns and templates adopted and customized for the first were reused by the second creating a consistent codebase and optimizing reuse.

U.S. Government Agency

Following a customer decision to sunset a legacy technology, Everware-CBDI was engaged to apply its model-driven approaches to accelerate the replacement of a mission critical application into industry-standard Java with a rich browser-based UI. Legacy business rules were converted to UML and extended to incorporate new requirements. The new application was generated, extended, tested and delivered in iterations.



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Service Delivery

Rather than a traditionally large development team, Everware-CBDI's Agile Modernization approach requires significantly fewer developers, testers, and commensurately fewer managers and support staff to complete the solution – generally at least 40% fewer. Additionally, our approach yields results more quickly, produces a more consistent, modular codebase easing ongoing maintenance, and greatly reduces the typically time-consuming and risk-prone test/repair/integration tasks.

Although we can perform this service as an out-sourced project, it is best performed in partnership with our customer's staff, involving architects, analysts, developers, and others as desired. This approach ensures both the near-term ownership and the long-term maintainability of the resultant solution. We use adaptable tools and processes to accelerate sprint production allowing each 2-4 week sprint to deliver significantly more functionality than other approaches.

Our Agile Modernization approach can be applied to scopes ranging from application to enterprise and is particularly powerful when applied across a functional domain. Integral to the approach is the managed incremental transition of modernized functionality within the production environment on a business priority and technical dependency basis.

About Everware-CBDI

At Everware-CBDI we enable large enterprises and governments to become more agile by modernizing their business systems. We have repeatable processes, resources, tools and knowledge-based products that enable enterprises to transform their current applications in an efficient, low risk manner, into an optimized service-based solutions portfolio that supports continuous, rapid and low cost evolution. Our consulting services range from providing practices and independent governance to architecture development, solution delivery and service engineering.

Consulting Services

Application Modernization

- Portfolio Transition Engineering
- Application Modernization Planning
- Model-Driven Agile Modernization
- CA Gen Modernization

SOA Consulting

- Roadmap Planning
- Reference Framework Development
- Business Case Development
- Establishing SOA Governance

Service Engineering

- Service Specification
- Architected Solution Development
- Shared Service Provisioning
- Information Sharing

Architecture Services

- Enterprise Architecture
- Service Architecture
- Business Process Modeling & Reengineering
- Information Architecture

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