

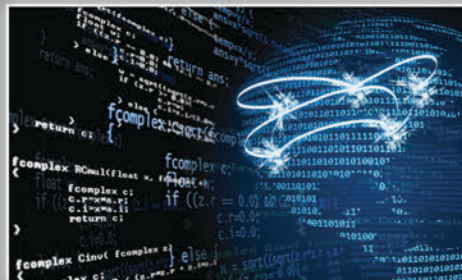


Open Source and Agile Software Development

NCI Facts

- Our engineering methodology leverages industry best practices and has been certified and appraised with standards like ISO 2000-1:2005, CMMI Level 3, and IEEE 12207.
- We have woven the Evolutionary Process for Integrating COTS-Based Systems (EPIC) framework into our integration approach to ensure consistent delivery of commercial off-the-shelf (COTS) and Government off-the-shelf (GOTS) systems.
- We leverage an Agile-/Scrum-based set of processes to ensure responsive system development, rapid prototyping, and continuous adherence to evolving requirements.

Federal and Department of Defense (DoD) customers are working within tighter information technology budgets to support ever-expanding mission requirements, thereby driving decreased fielding time and more efficient approaches for implementing new capabilities and applications. NCI uses an innovative, Agile-based methodology, incorporating rapid prototype devel-



opment, periodic system reviews, spiral development releases, and a proven approach to customizing open source software capabilities.

Open Source Integration

Leveraging and customizing open source software can be an efficient and effective approach to implementing specific capabilities as opposed to relying on traditional development cycles, developing proprietary solutions, and incurring high software licensing fees. NCI complements open source solutions with COTS and GOTS products, enabling an Agile customization approach to complement traditional software development discipline and to rapidly introduce tailored

system capabilities. The EPIC framework for COTS/GOTS integration further ensures stakeholder requirements are aligned with software applications, system architectures, and programmatic risk factors.

Agile Software Development

We employ a comprehensive engineering methodology based on high-quality practices that have been independently assessed through standard quality frameworks. We have developed processes that support a rigorous Agile-based methodology, which is particularly useful in supporting rapidly evolving requirements and quick-turn prototypes within timeframes of days and weeks. This development framework allows projects to make extensive use of mature and robust class hierarchies implementing low-level controls and contingency processes while providing an excellent model for high-level application architectures.

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