



**Software Engineering Collaborators Information Exchange (SECIE)**

**February 16, 2009 11:00AM to Noon**

**Open Source Technology for Enterprise Health Management**

**Edward Beck, Solutions Architect  
Mission Solutions Engineering**

**Abstract:**

Numerous global events are forcing government program offices to demand that weapons system contractors provide solutions with increased capabilities delivered in a shorter time at reduced cost. Solution providers are being challenged to develop innovative approaches in designing and deploying today's systems. For decades, Mission Solutions Engineering, LLC has delivered complex technology to the U.S. Navy, providing real-time, high quality software for the Aegis Weapons System. The Navy's adoption of Open Architecture and COTS technology in the mid-1990's challenged our ability to maintain the computer systems on land and at sea. This session will provide a case study of MSE's developed solution for characterizing the operational readiness of the Aegis Weapons System suite of computer systems. We will explore the integration of best-of-breed Open Source components, to provide fault-detection/fault-isolation, performance monitoring, and configuration validation of the real-time operating environment in an extensible, scalable framework.

**Bio**

Edward Beck is a Principal Computer Scientist and Sr. Manager for Mission Solutions Engineering, LLC Applied Integration Solutions group. He directs and participates in the integration activities for the open architecture computing environment of the Aegis Weapons System in Moorestown, New Jersey. Ed has over 26 years of experience in software development for the UNIX operating environment. His areas of expertise include system and performance monitoring software, open source technology, network management, and device driver development. He holds a BA in Computer Science from Rutgers University.