Intervise Provides Full Life Cycle Support for Department of Defense Electronic Medical Record System

Background

The Department of Defense (DoD) and other individual branches of the armed forces have developed more than 60 separate clinical information systems since 1980 in an effort to keep track of the individual medical records and medical history. These 60 distinct systems were useful but resulted in a large distribution of medical information, which became more difficult to access with each passing year.

Therefore, the DoD was faced with the need for a comprehensive system and methodology that could meet the needs of the military not only in a hospital setting, but in battlefield conditions as well. An electronic medical record system was required to share medical records and allow this information to be accessible in wards, clinics, examining rooms, nursing stations, offices, and other off site locations where patients are seen.

Services Provided

Intervise worked with the Prime Contractor to build an integrated system for the Medical and Healthcare Division for the Department of Defense. This system, CHCSII / AHLTA, revolutionized access to the medical information of millions of active duty personnel, retirees, and beneficiaries who are associated with the United States Military. Adhering to the Rational Unified Process best practices, Intervise helped provide full life cycle support from Security and Architecture to portal development to integration testing and user acceptance to training.

Application Development & COTS Integration - Intervise was responsible for the preliminary design and development of many of the applications, including the development of the Java portal for Tricare service member beneficiaries to access medical records. Technologies utilized include: Java, Data Gate, E-Gate, MUMPS, HL-7, VB, Com/DCOM, 3M Suite of Products for Health Care, ActiveX controls, Crystal Reports, Solaris, HTML and Oracle.

Quality Assurance - Intervise architected, designed, and implemented configuration management, quality assurance and full life cycle testing utilizing Mercury and Rational product suites.

Security - For the security segment of the project, Intervise designed, developed and implemented systems that included PKI architecture, VPN architecture and other security architecture. Intervise performed security assessments, developed risk mitigation plans and developed systems in compliance with the Defense Information Infrastructure Common Operating Environment (DII COE) and Health Insurance Portability and Accessibility (HIPAA). Intervise also designed and developed secure networks and network segments performing system threat assessments. Other work includes performing assessments and writing documentation for Defense Information Technology Systems Certification and Accreditation Program (DITSCAP).

Outcome
The Armed Forces Health Longitudinal Technology Application (AHLTA) currently supports 9.1 million personnel worldwide and has transformed the way the DoD practices medicine, particularly because it is reliable in remote environments and complies with security standards.