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Digital Prospectors & EDQMS – Open Source Standard Data Quality Assessments

Customer
USAF / A4 / FFRDC

Engagement
Subcontractor on GCSS and NETCENTS

Service Delivery
T&M

Service Value
≈ $1M

Platforms
Unix/Linux (upgrade to RedHat during the POP)

Databases
Oracle

Development Languages
Java, FLEX

Methodology
Modified Agile, leveraging enterprise SOA services

Tools
Websphere

Scope

In an effort to assess the quality of legacy data in the inventory area of the Air Force Materiel Command (AFMC) Logistics domain for use in the forth-coming ERP the Air Force required a set of enterprise services for manage-ment of all aspects of data quality. The Enterprise Data Quality Manage-ment Service (EDQMS) leverages the MITRE research work conducted over the past two years under the sponsorship of AFMC/ESC in the area of data quality. EDQMS is vendor agnostic, uses industry standard SOA principles, and adheres to a reusable XML vocabulary. EDQMS provides the Air Force with a standard method for measuring data quality across all systems and can be used for validating contract thresholds.

Solution

Digital Prospectors' large defense contractor client engaged Digital Prospectors to lead the EDQMS development team. The production system includes a set of enterprise services for measuring and assessing the six data quality dimensions defined by the DoD, alert notifications based on assessment thresholds, a Data Quality Meta-Exchange (DQME) XML language, and a rich internet dashboard with leadership and analysis views. The system was designed to be vendor and tool agnostic, so that any system can use it by simply sending DQME messages to the EDQMS event bus.

Results

A number of communities have begun using EDQMS, including ECSS (Air Force ERP system), GCSS-AF Data Services, Transcom, and Global Force Management. DPC continues to work with MITRE to extend the use of EDQMS across the DoD, and to work with vendors to adopt DQME as a standard data quality XML language.

The DoD Global Force Management – Data Initiative (GFM-DI) implement-ed the EDQMS for timely assessment and notification service to improve the authoritative force structure data in the GFM Organization Server. The solution received rave reviews when presented to the Vice Chairmen Joint Chiefs of Staff.

EDQMS has been incorporated within the Defense Information Systems Agency (DISA) government open-source repository Forge.mil.

Proven Technical Staffing