

Integrated Data Management

"What we did, that you should know ..."

The Problem

A U.S. Department of State manager inherited several legacy data management initiatives, each developed and operated independently, not integrated with the other initiatives under a coherent data management strategy to improve data quality, ability to access required data quickly, assign a single authoritative source for each type of data, and reduce inefficiencies..

Our Solution

Creative Information Technology, Inc. (CITI) supported each of the independent initiatives, and concurrently mapped each initiative to the data life cycle, identifying its functions with respect to the others, and identifying key information flows, control flows, and interdependencies. CITI designed an overall framework within which each initiative could be integrated to improve the usefulness and performance of each, and the data management program overall.

Components included:

- Metadata Repository, containing information on major agency data collections and data flows.
- Enterprise Data Model, mapping critical data elements and their inter-relationships across the agency.
- Application Logical Data Models, within the context of the overall enterprise data model.
- Federal Enterprise Architecture Data Reference Model (DRM): Align the DRM with the existing business reference model (BRM).
- Standard Reference Tables for authoritative use in multiple applications throughout the agency.
- Standard Data Elements, providing standard definitions, formats, and domains for data elements in common use across agency systems.
- XML Tagging for Data Sharing: Lead the agency's XML focus group; participate in interagency XML technical and standards meetings.
- Data Stewardship Program for agency-wide data management.

Benefits:

- Increased visibility of data management as a critical enterprise support activity.
- Highlighted weak spots and missing links.
- Promoted synergies among data management initiatives.
- Promoted data sharing within and outside the organization.
- Increased data management efficiency to reduce duplication of effort.
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CITI, a recognized leader, has more than a decade of planning, modeling, qualifying, and integrating data and information systems for Federal mission-critical programs.

CITI employs 200 professional and technical staff, with 90 percent cleared at the Secret or Top Secret level. We are ISO 9001:2000 certified and CMM-Software Level 2 assessed with a CMMI Level 3 assessment targeted for 2007.

Leveraging Our Data Management Success

- Responsible for operations and data quality of the Department of State's Consular Consolidated Database
- Maintained data quality in EPA's Toxic Release Information System
- Validated data from Fannie Mae and Freddie Mac for the Department of HUD
- Responsible for Railroad Safety data management on Department of Transportation - Federal Railroad Administration's public and agency web sites.
- Established a disaster recovery capability for Congressional document access by Congress and the public.



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