



Whitemarsh

Information Systems Corporation

January 2006

www.wiscorp.com

Website Announcement

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Announcement Topics

December has been an activity filled month. We spent a good part the month converting a number of Data Management Program documents that have been created, tested, and evolved over the past three years. We have created a Frequently Asked Questions for the Data Interoperability Workshop. These have been posted to the website. We also completed the 2nd edition of the DBMS Technology textbook and course. The book and course are about 500 pages each. All these updated materials are available to Whitemarsh website members.

Data Interoperability Workshop

We have created a Frequently Asked Questions page about the Data Interoperability Workshop. This is located as a link from the main Data Interoperability Workshop page,

http://www.wiscorp.com/data_interoperability_workshop.html

The complete set of data management materials, described in the WisWeb Members Section below represents the completion of a full data management program that you can bring into your organization.

SQL 200n

There's no new news on SQL 200n. The next H2 meeting will be in St. Petersburg, FL during the first week of February. So, it will be reported on the March website update.

Data Management Program Materials

The Army's Office of the CIO (G6), from September 2003 through December 2004, developed a comprehensive and detailed strategy for data interoperability and data sharing.

This strategy, built from 30+ years of industry best practices, conforms to the DoD's Net Centric data goals. The strategy was favorably reviewed by the DoD, and then proven in a December 2003 Army workshop. Attendees rated the strategy and workshop very highly.



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During 2005 the strategy and supporting materials were updated to incorporate lessons-learned. The workshop was enhanced, and the technology and sophistication of the supporting COI tool set was advanced.

With this announcement, the strategy and supporting materials are now released to Whitemarsh members.

- Data Management Program_Contract Language for Understanding-Based Data Interoperability
- Data Management Program_Data Asset Product Specifications
- Data Management Program_Data Management Capability Maturity Model Whitepaper
- Data Management Program_Data Standards Architectures and Implementation
- Data Management Program_Database Interface Architectures
- Data Management Program_Engineering
- Data Management Program_Framework
- Data Management Program_Key Work Breakdown Structures
- Data Management Program_Knowledge Categories and Questions
- Data Management Program_Materials Creation Estimates
- Data Management Program_Metadata Architecture For Data Sharing
- Data Management Program_Quality Assessments Presentation
- Data Management Program_Reference Model
- Data Management Program_Requirements For Components and Costing and Schedule
- Data Management Program_Tag and Post vs Data Standardization
- Data Management Program_Understanding Based Data Interoperability Presentation
- Data Management Program_Way Ahead Presentation

Further description and detail on all these products is provided in the table that follows:

Data Management Program	
Title	Description
Data Management Program_Contract Language for Understanding-Based Data Interoperability	This material contains requirements-based language that can be employed by someone writing a contract with a vendor to ensure that databases and automated information systems are created such that they can interoperate one with another.



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Data Management Program	
Title	Description
Data Management Program_Data Management Capability Maturity Model Whitepaper	This material identifies a strategy for creating a data management capability maturity model assessment. It further defines the return on investment, and finally provides a prototypical work plan to accomplish a DM/CMM assessment.
Data Management Program_Data Standards Architectures and Implementation	This material identifies and describes the four data standards that need to exist for any data management program to be successful. This material further provides a high level process model for accomplishing each data standard. Finally, the materials identifies the data asset products that must be accomplished to achieve the standard.
Data Management Program_Database Interface Architectures	This material identifies and describes the various strategies for interfacing automated information systems and databases from point-to-point strategies to COI based common data exchanges.
Data Management Program_Engineering	This material provides the necessary engineering constructs for a data management program. Included are terms and concepts, the identification and brief description of data standards, communities of interest, and then a data management program architecture that includes the three layers: program, project, and execution.
Data Management Program_Framework	This material sets out a complete hierarchical organization for data management. Included is its overall architecture, governance, components, and projects. The purpose of this material is then act as the hierarchy for a data management website, or for the directory structure for materials storage and access.
Data Management Program_Knowledge Categories and Questions	This material contains the key data management topics and a set of questions that should be answerable by those participating in these efforts.
Data Management Program_Components, Descriptions, and Costs	This material enumerates all the components involved in a data management program. It provides cost estimates for custom development vs purchasing all of the program's components, and identifies the quantities of the various components (seminars, workshops, etc.) needed for delivery to various levels of the enterprise including communities of interest and projects. Finally the materials shows how data management programs have an immediate positive ROI if properly constructed and delivered.



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Data Management Program	
Title	Description
Data Management Program_Metadata Architecture For Data Sharing	This material defines the overall metadata architecture that is required for successful data management programs. Key to understanding the requirements for a metadata architecture is understanding the key reasons for past failures and to profit from lessons learned. The material then sets out the architecture for shared data including a five-levels of data model abstraction, and strategies for automated creation and management of names, XML schemas, and metadata catalog data.
Data Management Program_Projects and Data Asset Product Specifications	This material identifies the types and kinds of projects that exist within a data management program, and then for each type of project identifies the types of data asset products that must be produced. For each data asset product, its specifications are then provided.
Data Management Program_Quality Assessments Presentation	This material presents an overall strategy and architecture for assessing data management programs. The presentation includes the identification of capability maturity model levels, the relationship between net-centric goals and data management, and an overall process model for performing data management capability maturity model assessments.
Data Management Program_Reference Model	This material presents an overall reference model for data management. This includes the identification of supporting layers, strategies for migration, transport, and reference data, and the four data standards. There are finally three dimensions for data to wisdom, data interoperability maturity, and interlocking data communities.
Data Management Program_Requirements For Components and Costing and Schedule	This material sets out the requirements for data management program components, costing, and schedule. This material lists the requirements for the various components, describes the operational environment, and sets out the needs for software, evolution, maintenance, technical support, and training.
Data Management Program_Tag and Post vs Data Standardization	This material describes two approaches to achieve net-centricity. Tag and Post, or Data Standardization followed by Tag and Post. The material compares and contrasts these two approaches with the objective of showing that the Tag and Post only alternative results in net-centric failure.
Data Management Program_Understanding Based Data Interoperability Presentation	This material identifies the understanding-based approach to data interoperability by identifying and describing the critical components including both reverse and forward engineering. The material concludes with a description of the way-ahead to achieve more for less, faster, and at a lower risk.



Data Management Program	
Title	Description
Data Management Program_Way Ahead Presentation	This material presents an overview of the way ahead for a net-centric conforming data management program. The presentation describes and compares the alternatives. The material then describes the organization and construction of the complete data management program including cost and schedule affects on data model data model development and application software development.
Data Management Program Work Breakdown Structures	This material provides a set of work breakdown structures for activities that are more detailed than those contained in <i>Data Management Program_Data Standards Architectures and Implementation</i> . Each of these work breakdown structures are further divided and refined in the Whitemarsh WBS materials.

DBMS Technology Text Book

The DBMS Technology book was originally written in 1991. This book has been updated to reflect the DBMS status of 2005. In 1991 when the book was first published it's central tenant was that there was an overarching architecture to all DBMS technology and that all the different DBMSs were a subset of that DBMS Technology Architecture. That is still true. What has now changed is that instead of just four data models, there are now five. The new data model is the SQL data model. It is new because it represents a melding of Network, Hierarchical, Independent Logical File, and Relational. Most of the "old tyme" DBMSs are still here but they are updated to be able to "speak" the SQL language. This book represents a good technology book for any DBMS course. Use it as such. Remember, however, this is a DBMS textbook, not a database textbook.

DBMS Technology Course

The DBMS Technology book contains just six chapters. The course materials therefore has a same number of chapters. Each of the six separate pdf-based files is about 75 to 125 overheads. These overheads follow the book very closely. Many database courses have almost no material about DBMSs. This course and the DBMS Technology book focuses entirely on DBMS. Thus, the traditional database course book and course and these DBMS Technology book and course are perfect complements. We therefore recommend that these materials provide an infusion of DBMS technology into any database course.



