

Enterprise Data Management

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The Changing Data Management Environment

1960's

Routine Filing Cabinet Management

Islands of Information (ad hoc) (optimized)

Ownership

Mil-Specs, Mil-Stds

12-15 years

Prescriptive

30 days to contract life

US Mail

Project/Program

Transaction Based

Practices

Business Environment

Data Responsibility

Standards Development & Implementation

Acquisition Cycle

Business Relationships

Data Life Cycle

Delivery Mechanism

Scope of DM

2007+

Robust Electronic Workflow & Process and Process Automation

Integrated Databases, well administered

Stewardship

Commercial Standards and CMMI support (artifacts)

2-5 years

Trust based

1 minute to 50+ years

Instant Access via database technology

Enterprise

Performance-Based



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What do we mean by Enterprise?

How can Data Management help across the Enterprise?



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How can Data Management help across the Enterprise?

Data Management processes can be leveraged to effect improved control and management of valuable data assets in all areas of a business enterprise.



DM Processes go beyond the Data Management Organization



Data Management and Information Technology

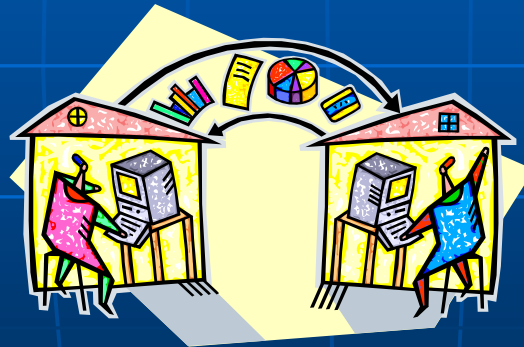
Data Management Technology

Work processes

Standards

Best Practices

Requirements



Data Management defines the business processes for data control and management while Information Technology provides the Systems to support these processes.



Legal Liaison

- **Previous State:**

The Legal Department FedEx'd invention disclosures to 7 separate law firms to protect intellectual property. Mailing, distribution, and receipt added several days to the processing cycle time.

- **Nonrecurring DM Effort:**

DM set up a repository for legal firms to access the company database when they are notified a patent is ready for review. This "Best Practice" was emulated at other company sites.

- **Recurring DM effort:**

Minimal – On call support for Legal firms.



Supplier Liaison

- **Previous State:**

Drawing packages were manually pulled from the Product Data Management (PDM) database or hardcopy library and provided to suppliers. Mailing (hard copy/CDs), distribution, and receipt added from several days to several weeks of processing cycle time.

- **Nonrecurring DM Effort:**

In collaboration with tool support personnel, DM transitioned to electronic files for technical data packages and delivery shifted from packages (hard copy or CD) to an electronic delivery system.

- **Recurring DM effort:**

DM pulls electronic packages to support 75 supplier packages per month.



Human Resources Liaison

- **Previous State:**

Human Resources files for inactive personnel were held at an offsite location. Files needed for various reasons (rehire consideration, reference, etc.) required ordering, receipt, and distribution that took several days to process.

- **Nonrecurring DM Effort:**

DM set up a repository for Human Resource files for inactive personnel. DM "Best Practice" emulated anywhere else???

- **Recurring DM effort:**

Minimal – DM personnel are consulted when new tools and processes are considered.



Program Management Liaison

- **Previous State:**

Prior to CMMI, program work products were managed in multiple repositories, with some standardization (e.g. technical drawings in PDM, CDRLs in PDM).

- **Nonrecurring DM Effort:**

To facilitate improved processes, a cross functional team set up a bill of information (BOI) system in the PDM tool to index and establish common repositories (systems of record) for common types of work products (technical drawings, software, data, etc).

- **Recurring DM effort:**

DM personnel are responsible for the maintenance of the BOI system.



Collaborative Environment and Website Management

- **Previous State:**

Numerous collaborative environments and websites emerged over the last 5 years with new tool availability.

- **Nonrecurring DM Effort:**

DM worked with IT and collaboration groups to establish a standard for repository structures such that collaborative environment design was consistent and navigation became easier.

- **Recurring DM effort:**

DM personnel are responsible for maintenance of the standard collaborative environment and website templates.



Security Liaison

- **Previous State:**

Many program classified assets were centrally located within old (paper-based) repositories.

- **Nonrecurring DM Effort:**

To improve business activities and support Security efforts, DM indexed and processed numerous repositories toward an end goal of decentralization of valuable assets back to the project/program.

- **Recurring DM effort:**

DM personnel support programs as needed to manage their classified assets.



Supplier Statement of Work Liaison

- **Previous State:**

Supplier Statements of Work (SSOWs) were managed by Supply Chain managers within a program and by their program management counterparts.

- **Nonrecurring DM Effort:**

DM and CM collaborated with Subcontract Management and Engineering teams to develop standard templates for SSOWs.

- **Recurring DM effort:**

DM and CM are responsible for the ongoing management of current SSOWs.



Scanning Liaison

- **Previous State:**

Many organizations bought desktop scanners and sought digitization through administrative personnel.

- **Nonrecurring DM Effort:**

DM affirmed a production capability internally and established relationships with vendors for large volume digitization.

- **Recurring DM effort:**

DM personnel were consulted when large and small digitization efforts are undertaken. All legacy data requiring use is digitized at the beginning of a new program/project and new data is developed electronically.



Enterprise Purge/Digitization Liaison

- **Previous State:**

Many archival materials collected over the years in file cabinets and were not managed data resources.

- **Nonrecurring DM Effort:**

DM worked with responsible parties and provided services to: 1) assist with elimination of unneeded data (transient data, duplicate data, etc.), 2) assist with digitization, and 3) assist with electronic storage of digitized data.

- **Recurring DM effort:**

DM personnel maintain ongoing tasking of managing electronic Bill of Information data for projects/programs. Enterprise activities result in more robustly populated repositories and the ability to retrieve all data (financial, scheduling, product, documentation, deliverable, administrative, etc.).



Government/Company Liaison

- **Previous State:**

The government had a repository for its critical data pertinent to one of our products that largely duplicated the company repository. Both repositories were managed by their respective IT personnel.

- **Nonrecurring DM Effort:**

DM re-hosted Government data to a shared collaborative environment.

- **Recurring DM effort:**

DM personnel maintain ongoing shared repository
Both the Government and the Company have a 'hidden' area in the environment.



IT Liaison

- **Previous State:**

IT personnel developed tool implementations based on their view of/IT generated requirements. Tools were difficult to implement or didn't effectively meet needs of the Enterprise.

- **Nonrecurring DM Effort:**

DM supported a collaborative core team to focus on Enterprise data which resulted in an IT process that emulates a Program/project and encompasses user representatives at all stages of tool selection and implementation activities.

- **Recurring DM effort:**

DM represents the CM and DM organizations as a core team member and CCB chair for all IT projects and changes to those projects. This activity includes coordinating user testing, review and prioritization of changes, consolidating test results and establishment and tracking Release Builds (Release Management).



Ongoing Regular influence

- **Previous State:**

Old systems are transitioned to new systems and focus remained on testing and turning on the new system, not in retaining the old data.

- **Nonrecurring DM Effort:**

DM management established a reputation for regularly querying organizations in transition to ensure the viability for retrieval of historical data.

- **Recurring DM effort:**

Minimal – On call support for programs/projects as transition activities are identified.



Summary

- The DM practice and practitioner environment have changed a lot
- There is data all over the organization, and enterprise DM is interested in all of it
- In the workshop tomorrow, you'll have a chance to share your perceptions with the rest of the group

