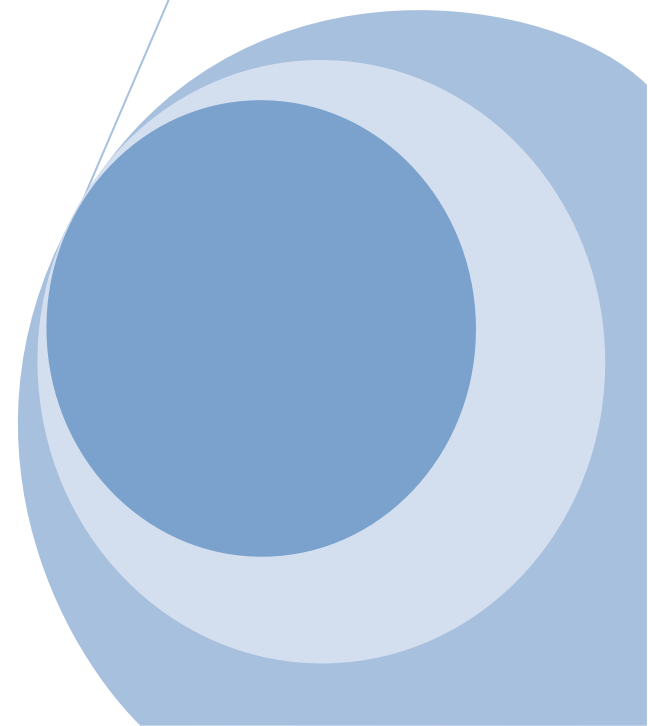# EWSolutions Data Governance and Metadata Management Case Study

Improving Metadata Management and Data Governance through Methodologies and Sustained Support

An explanation of how EWSolutions designed and supported the development of enterprise data governance and metadata management programs for a Fortune 100 manufacturing organization .
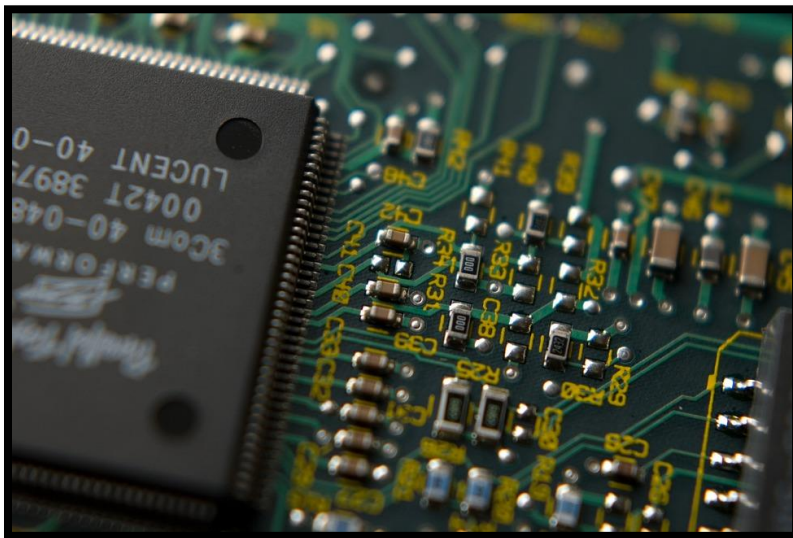
EWSolutions, Inc.
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Developing Metadata Management and Designing Enterprise Data Governance and Data Stewardship: A Case Study in How EW Solutions Supported Emerging Data Management for a Leading Manufacturer

Micron Technology, Inc. is an American global corporation based in Boise, Idaho. The company produces many forms of semiconductor devices, including dynamic random-access memory, flash memory, and solid-state drives. Having grown through acquisitions, Micron has become a world leader in innovative memory solutions that transform how the world uses information. The company has been instrumental to the world's most significant technology advancements, delivering optimal memory and storage systems for a broad range of applications, with the world's largest portfolio of memory and storage products.

Since the company grew through mergers and acquisitions, the variety and the volume of data became a challenge as the company wanted more knowledge about its customers, sourcing partners, locations, and product distribution. Managing for a competitive advantage is possible only when the company can manage managing their information carefully, completely, and with confidence in the content.

Given the global nature of its diverse business, market, and customer base, Micron found itself faced with several data management challenges, and focused on its metadata management needs to support its data and information improvements.

Metadata Management holds the key to change

Like most companies in the technologies industry, Micron searched for opportunities that allowed the company to differentiate itself from the competition through knowledge of its products across their creation and sales cycles, including materials sourcing data, product refinement, and customer information. Additionally, the continued acquisition of manufacturing and distribution locations added to the strain on the existing applications, and caused issues with reporting and delayed essential analytics from reaching executives.

Micron chose to explore support for metadata management to support some of its data management challenges, especially with its master data.

The company retained industry leader EWSolutions and used its expert consultants to work with the chosen metadata management product vendor to develop an approach to metadata management for its master data, beginning with product data. EWSolutions team of experienced senior level metadata management consultants, led by President David Marco, was able to provide the company with exemplary advice, guidance, planning and execution support for metadata management. EWSolutions educated Micron staff in all aspects of metadata management, including business and technical metadata concepts and their applicability to the chosen application.
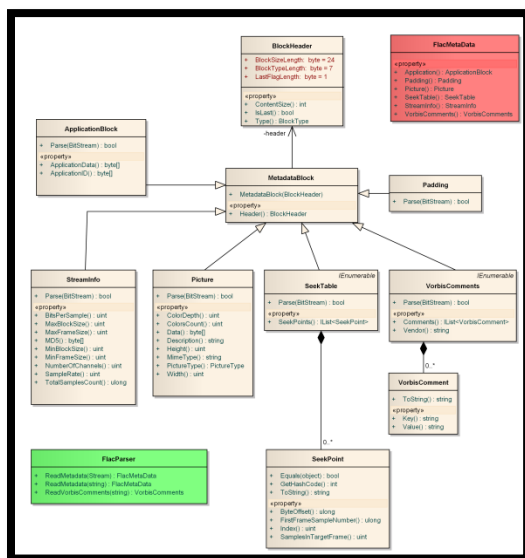
EWSolutions also supported the customization of metadata models to reflect Micron's business and technical needs.

Additionally, EWSolutions expertly guided the Micron team in the use of its industry leading M3^{sm} methodology for metadata management. The results of this methodology implementation included:

- Analysis of M3^{sm} against current metadata management activities and practices in the Micron applications environments
- Assessment of gaps between Micron's metadata management practices and industry proven practices in M3^{sm}
- Incorporation of M3^{sm} stages, phases, activities, templates into an enterprise approach for managing metadata, especially for the data integration needed in data integration and supply chain management

Micron team members became familiar with the best practices and industry standards used throughout the M3^{sm} methodology and worked with EWSolutions to develop a company-wide approach to improved metadata management.

Finally, EWSolutions recommended that Micron have a comprehensive assessment of the current state of metadata management performed during a future stage of the implementation effort. This assessment would include business and technical recommendations for continued improvement of the managed metadata environment to support the organization's stated needs for context for its data and information.

Metadata Management program leads to Data Governance and Data Stewardship

During the metadata program, EWSolutions recommended that Micron review its current, siloed, and non-enterprise approach to data governance. An EWSolutions senior level consultant examined Micron's data governance program and advised a variety of changes that would support the metadata management initiative more effectively. Ultimately, Micron initiated a revised data governance program based on EWSolutions advice.

EWSolutions team of experienced senior level data governance consultants was able to provide the company with excellent advice, guidance, planning, and execution support for data governance and data stewardship. This support included the revision of the current data governance program into an enterprise-wide, best practices-based approach for data governance and for the new data stewardship program. EWSolutions educated Micron staff in all aspects of data governance and data stewardship. Training was delivered to business and technical staff in data governance and data stewardship concepts and in the processes and activities necessary for each role. EWSolutions team members served as part of the Data Governance Program team during the formation, development, and implementation stages of the program.
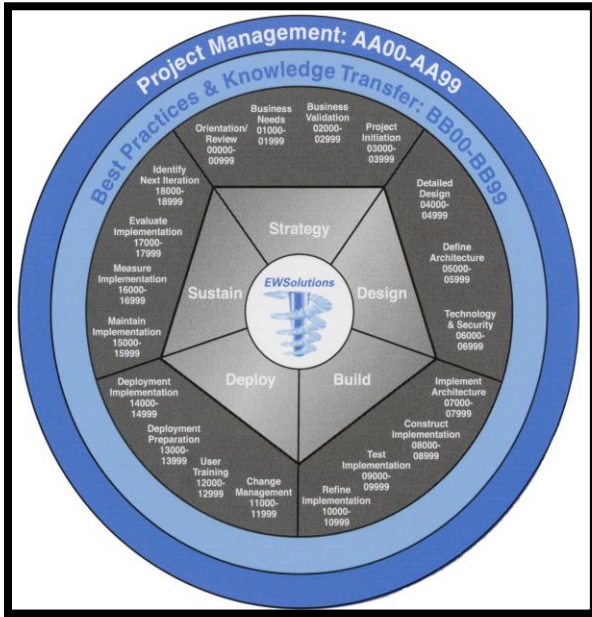
Additionally, Micron implemented EWSolutions' data governance methodology, **G3^{sm}** the industry's only comprehensive, iterative, scalable and flexible approach to developing and managing the complex discipline of data governance and stewardship. The results of this methodology implementation included:

- Analysis of G3^{sm} against current data governance and data stewardship activities and practices in the Micron organization
- Assessment of gaps between Micron's current data management and data stewardship practices and industry proven practices in G3^{sm}
- Incorporation of G3^{sm} stages, phases, activities, templates into an enterprise approach for data governance
- Development an enterprise data stewardship program based on G3^{sm} stages, phases, activities, templates within the data governance framework

EWSolutions consultants brought outstanding credentials and dedication to the partnership while also offering:

- Exceptional experience in all areas of metadata strategy development metadata assessment, technical metadata architecture (Managed Metadata Environment - MME), metadata project management and metadata integration
- Exceptional experience in all facets of enterprise data governance program design and implementation
- Superior skills in data stewardship program development, especially for organizations that have an existing format that must be re-designed to incorporate best practices and be aligned with enterprise goals
- Thorough understanding of enterprise information management best practices and industry standards, especially in the areas of data governance and stewardship, data architecture, metadata management, master and reference data management, and the project management in these areas
- Sophisticated interpersonal communication skill for delivering knowledge transfer
- World-class educational skills that enabled delivery of training to a wide variety of business and technical staff members at many organizational levels
- The invaluable ability to view the technology from the business person's perspective

Methodologies enable more rapid development and implementation through best practices

EWSolutions' M3[sm] methodology for Metadata Management is a highly customizable, iterative, and workflow-oriented methodology designed to help your organization achieve enterprise metadata management success effectively. With hundreds of fine-grained tasks with clear objectives, success factors, and responsible parties identified, M3[sm] enables the development of a managed metadata environment with the proper processes, people, and technologies.

The methodology is based on **EWSolutions'** consultants many years of helping clients successfully realize outstanding benefit from their metadata management efforts. M3[sm] underscores **EWSolutions'** numerous award-winning efforts and thought-leading practices and supports integration with Enterprise Information Management (EIM), data governance, and data warehouse / business intelligence (DW/BI) efforts. M3[sm] is a self-sustaining, iterative, and customizable methodology that helps organizations to realize continuous return on investment (ROI) by identifying new business opportunities, improving efficiencies, and increased data quality through a metadata management program.

M3[sm] **Methodology Critical Points:**
With highly customizable task narratives, templates, and examples, M3[sm] allows any organization to fit the methodology to its efforts, not the other way around. The methodology adds value to a metadata program without adding unnecessary complexity or unjustified efforts.

An iterative methodology with overlapping phases and activities, M3[sm] helps an organization anticipate and reduce risks within and across phases, providing strong validation of scope and results, while efficiently utilizing all resources, including time, personnel, funds, and effort.

The M3[sm] workflow provides discipline and manageability to any metadata management program. Developing a managed metadata environment can be very complex – using the M3[sm] methodology breaks the effort into manageable, measurable tasks to know the current state, target state, and next steps. With its clear success criteria and best-practice estimates, the methodology helps an organization achieve discipline and increase visibility to assess progress and identify needed adjustments efficiently and effectively.

EWSolutions' G3[sm] methodology for Data Governance and Data Stewardship, the industry's only comprehensive, iterative, scalable and flexible approach to developing and managing the complex discipline of data governance and stewardship. Combining the strategic, organizational and policy activities of data

governance with the tactical and operational tasks of data stewardship, including maintenance, G3^{sm} provides all the details any organization needs to ensure an effective implementation of the data governance process. Each stage defines the continuing parallel steps and iterative cycles necessary to deliver successful data governance and stewardship implementations. An organization can elect to implement both data governance and data stewardship, or choose to focus on one (data governance or data stewardship) without sacrificing any methodology continuity.

The methodology is based on **EWSolutions'** consultants many years of helping clients successfully realize lasting benefit from their data governance programs. G3^{sm} demonstrates **EWSolutions'** leadership in the data governance field, since the company has been a pioneer in designing and implementing data governance solutions. G3^{sm} is a self-sustaining, flexible, and customizable methodology that helps organizations to realize continuous return on investment (ROI) from improved data management and increased data quality through a robust data governance initiative that is aligned with data stewardship.

G3^{sm} Methodology Critical Points:

Including almost 140 narratives with additional templates, G3^{sm} enables every organization to design, implement and maintain a successful data governance and data stewardship program regardless of the organization's scale or industry. These templates ensure that best practices and industry standards are followed for each activity and process throughout the methodology.

EWSolutions' unique, cookbook approach allows an organization to advance through each phase of the methodology at its own pace, adapting the methodology as needed while saving time and money by using a proven structure and plan for data governance and data stewardship.

EWSolutions Overview

Enterprise Warehouse Solutions (EWSolutions) is comprised of superior strategic and tactical planning analysts who offer federal and commercial clients innovative and authoritative solutions to assist with assessments / strategies in all areas of enterprise data / information management, technology implementation in metadata management, data warehousing (ETL, BI, data and text mining, etc.), business intelligence implementation, data governance program development and implementation, enterprise data management strategy and framework development and implementation, data migration planning, disaster and contingency planning, and strategic solutions for business/technology issues. The company's extensive client base spans the government and the health, life sciences, insurance, financial services, consumer products, retail, manufacturing and high-tech industries. For more information on our strategic consulting services, high-value implementation services, methodologies, or world-class training call (630) 920-0005 or email us at Info@EWSolutions.com