CM Meta Analytics: Code Knowledge is Power

CM Meta Analytics enables large IT organizations to automatically analyze and inventory existing software assets, processing millions of lines of code quickly. It will increase the value of Metadata and Enterprise Architecture investments by enabling deeper impact analysis, component reuse, code quality analysis, legacy modernization planning, and faster business process change across an enterprise application portfolio.

CM META ANALYTICS BENEFITS

+ **Reduced Risk:** Understanding of your code base ensures successful portfolio assessments, code quality improvement initiatives and modernization efforts
+ **Improved Availability:** Rapid analysis process delivers deep understanding of applications to stakeholders such as application connectivity and dependencies to support SOA initiatives
+ **Increased Efficiency:** Knowledge gained leads to code optimization and efficiency

BUSINESS CHALLENGE

Organizations that are running complex application architectures involving multi-tier midrange and mainframe systems have a need to understand their application portfolios so they can pursue modernization strategies. They need to understand the overall code structure and dependencies, application component connectivity, and database schema interaction prior to making a decision about which of the many modernization options works best in their situation.

Many companies discover that they have little information about their code portfolio. Documentation is scarce and rapid change has led to new code dependencies and interconnections. With geographically-dispersed and outsourced development teams, and new architects trying to understand legacy applications that may no longer run optimally, the need to understand code is compelling. The problem is – code analysis is difficult. They may not have the expertise, resources or time to do it in-house.

SOLUTION OVERVIEW

CM First Meta Analytics is a sophisticated code comprehension solution, which can dramatically increase the productivity of system architects and analysts as well as help them plan a modernization effort. This product has a unique capability to automatically analyze and comprehend source code portfolios across a variety of platforms and language domains - ranging from object-oriented Java to procedural COBOL, JCL, and Assembler.

The solution is fast and accurate, enabling completion of many analysis tasks that would otherwise not be feasible using conventional techniques. In two steps, you can obtain the information you need. First, code is imported and scanned from the source code repository. Second, the solution automatically derives a wide variety of information including component connectivity, data lineage, and code maintainability metrics. The results of the analysis are stored in standard XML/JSON formats, which can be utilized directly or loaded into enterprise meta-data repositories.

KEY FEATURES

Code Parsing

Fast, automatic parsing of source code into structured XML. Includes relevant metrics about software code, quality and complexity.

Application Data

Derives component connectivity and 'where-used' information as well as file I/O usage, variables, SQL access, and others. Detects name and type of object-oriented classes and methods.

Software Quality Resolution

Detects and fixes clone and dead code issues.

High Performance

Supports multi-core and parallel processing to speed analysis.

Private and Public Cloud Support

Big Data storage engine option available.

PLATFORMS SUPPORTED

CM Meta Analytics runs on Microsoft Servers connected to IBM i/z and other popular host-based source repositories, and is multi-processor optimized. Code can be scanned from any operating system platform; support is built in for all popular encoding schemes including EBCDIC and Unicode. Meta Analytics offers support for most popular development languages, including COBOL, ASM, JCL, Java, and SQL.

RELATED PRODUCTS/ADD-ONS

SQL Module

This module adds support for relational database connectivity, including JDBC/Hibernate, ODBC, and IBM SQL preprocessors.

Metrics Module

This module computes all popular code complexity metrics including Halstead, McCabe, and SEI.

SCM Connector Module

This module provides direct support for PTC (MKS) Integrity and CA Endevor source repositories.

CA Repository Interface

This interface facilitates the integration of CM Meta Analytics results into CA Repository using Universal XML Exchange for both zOS and Distributed platforms.

CM FIRST SERVICES

CM First offers a variety of customization options for customers with additional requirements. These include: Automated code and schema migrations or mass changes; Incorporation of difficult or obscure language domains; Added support to handle coding problems that make automated detection challenging; and Flexibility to adapt to unique output requirements.

For more information, visit **cmfirstgroup.com/support/solution-demo**

Request a Demo Today

You can also call us at **888-866-6179** or email us at **info@cmfirstgroup.com**

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Rethink Modernization

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