ER/Studio Enterprise Team Edition

THE ULTIMATE COLLABORATIVE ENTERPRISE DATA ARCHITECTURE AND MODELING SOLUTION

With many organizations seeing a significant increase in data, along with more emphasis on compliance to industry and government regulations, it's clear that having a solid strategy for data management is extremely important. ER/Studio Enterprise Team edition provides a comprehensive solution that empowers users to easily define models and metadata, establish a foundation for data governance initiatives, and define an enterprise architecture to effectively manage data across the whole organization.

THE CHALLENGE OF MANAGING AND UTILIZING ENTERPRISE DATA

Physically capturing and properly integrating data is challenging, especially for unstructured content. Incorporating the new data, interpreting it correctly, and making it available to decision makers in a timely manner poses three distinct challenges for data management professionals:

• Leveraging enterprise data as an organizational asset

• Improving and managing data quality

• Clearly and effectively communicating data throughout an organization

To address these issues, ER/Studio Enterprise Team edition gives data modelers and data architects the capabilities needed to analyze, document, and share essential models and metadata across the organization, including glossaries, definitions and custom attributes. Data professionals can establish an enterprise glossary to consolidate the business terms and metadata for all data models, and business users can contribute to the glossary contents to compile an authoritative reference. Master data and transactional concepts with multiple entities and relationships, such as products, customers, and vendors, can be represented with Business Data Objects, for better alignment to the business.

Now business and technical users – in any size of organization – can be confident that high value and complex decisions are based on a common understanding of the corporate metadata. They can rest assured that interpretations of data from myriad sources, including ETL platforms, big data and relational data, will be consistent across a large enterprise. ER/Studio Enterprise Team edition allows data management professionals to document, interpret, and fully take control of their enterprise data environment.

When an organization can interpret data accurately, and share and re-use data faster, the quality of business decision-making improves. Understanding sources, targets, and transformations of enterprise data is a fundamental requirement for any organization to achieve viable data quality.

ER/Studio gives data management professionals the metadata foundation to quickly respond to business process demands, reduce the risk of noncompliance, and deliver more actionable insight.

Many organizations must deal with both relational and NoSQL data, as well as a broad landscape of platforms. ER/Studio Enterprise Team edition continues to build on its support of strategic enterprise systems including Teradata, Netezza, and Azure, as well as Big Data platform support for Hadoop Hive and MongoDB, giving organizations an interpretive and collaborative enterprise advantage for leveraging their data residing in diverse locations, from data centers to mobile platforms.

ER/Studio Enterprise Team edition provides the fastest, easiest, and most collaborative way for data management professionals to build and maintain enterprise-scale data models and metadata repositories. Built-in facilities automate routine modeling tasks to provide visibility into existing data assets while reducing re-creation and redundancy. Naming standards templates can be applied to models to provide clarity and ensure consistency. Empowered with easy-to-use features for communicating and collaborating on essential data and definitions, ER/Studio users find it simpler and faster to successfully manage their data and use it for making high-value decisions.

BENEFITS

• Create in-depth logical and physical models to represent key business concepts including Business Data Objects

• Track data model changes and their impact on data sources, databases, and applications

• Publish business process models, conceptual models, and data models for visibility across the organization

• Create and collaborate on an enterprise glossary with consistent business terms and definitions

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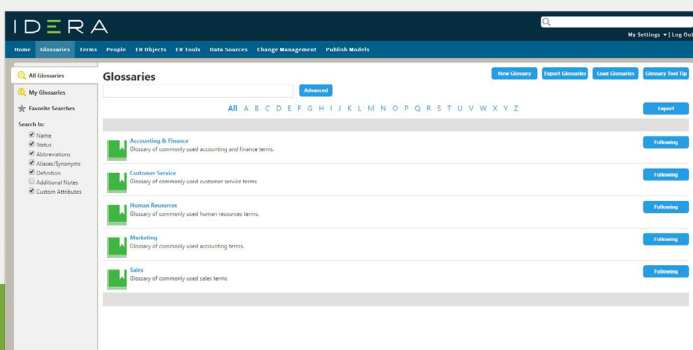
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LOGICAL AND PHYSICAL DATA MODELING

FORWARD AND REVERSE ENGINEERING Use ER/Studio Data Architect to generate source code from database designs, construct graphical models from existing database or schema, and easily apply design changes with formulated alter code.

ROUND-TRIP DATABASE SUPPORT Perform native forward and reverse engineering for multiple RDBMS and big data platforms.

"WHERE USED" ANALYSIS Display mapping between conceptual and logical models and their implementations across physical designs.

VISUAL DATA LINEAGE Visually document source/target mapping and sourcing rules for data movement across systems.

BUSINESS DATA OBJECTS Represent master data and transactional concepts with multiple entities and relationships, such as products, customers, and vendors.

ADVANCED COMPARE AND MERGE Enable advanced, bidirectional comparisons and merges of model and database structures.

NAMING STANDARDS Automatically apply a naming standards template across logical and physical models by binding it to models, submodels, entities and attributes.

METADATA COLLABORATION

TEAM COLLABORATION Apply enterprise collaboration features such as activity and discussion streams, to capture and share corporate knowledge and reduce time identifying and correcting expensive data quality issues.

MODEL AND METADATA ACCESS Share and collaborate on models and metadata across the organization with unlimited web user access.

UNIVERSAL MAPPINGS Map between and within conceptual, logical and physical model objects to view upstream or downstream, specify metadata such as definitions, notes, and attachments, and view mappings in Team Server.

INTERACTIVE MODEL IMAGE NAVIGATOR View the data model image interactively within the Team Server web interface, including zoom, search, and repositioning functions.

INLINE DEFINITIONS View definitions for registered data elements or business terms in integrated data access tools and internal webpages.

SEMANTIC MAPPING Relate business terms to critical data elements including tables, columns, entities and attributes, and view associated Universal Mappings in the detailed description.

ENTERPRISE GLOSSARY View, classify, relate and centrally store authoritative business definitions in an extensible enterprise glossary of business terms, and associate glossaries with models and submodels.

GLOSSARY HEIRARCHY Create child glossaries that inherit a subset of terms from one or more glossaries to define a tiered structure that can correlate to organizational configurations.

DATA SOURCE REGISTRY Single searchable registry of all available created or imported data sources.

DATA SOURCE MAPPINGS Track and analyze the impact of data model changes back to affected data sources.

CENTRALIZED REPORTING More than 20 out-of-the-box reports and a reporting wizard for ad hoc reports that can be exported to several formats and shared.

MODEL REPOSITORY

MODEL STORAGE AND PUBLICATION Store data models in the shared Repository and publish them to Team Server for viewing

CONCURRENT MODEL AND OBJECT ACCESS Allows real-time collaboration between modelers working on data models down to the model object level with token-based check-in/check-out..

VERSION MANAGEMENT Manages the individual histories of models and model objects to ensure incremental comparison between, and rollback to, desired diagrams.

COMPONENT SHARING AND REUSE Predefined Enterprise Data Dictionary eliminates data redundancy and enforces data element standards.

SECURITY CENTER GROUPS Streamline security administration with local or LDAP groups improving productivity and reducing errors.

AGILE CHANGE MANAGEMENT Assign and track tasks associated with data models to align changes to user stories and development workflows; view and edit tasks in both Data Architect and Team Server, and link projects and tasks to JIRA records.

BUSINESS PROCESS AND CONCEPTUAL MODELING

PROCESS MODEL CREATION Design straightforward process models that use standard elements such as events, tasks, gateways, pools/swim lanes, choreographies and conversations, using BPMN 2.0 notation.

PROCESS VALIDATION Validate your business processes based on BPMN 2.0 standards (in real time or as needed).

CONCEPTUAL MODEL CREATION Create high-level conceptual models using elements such as subject areas, business entities, interactions, and relationships.

IMPORT/EXPORT CAPABILITIES Easily export conceptual models to ER/Studio Data Architect to create logical models, and import logical data models from Data Architect.

UML MODELING

MODEL DRIVEN ARCHITECTURE AND STANDARDS ER/Studio Software Architect supports Unified Modeling Language™, XML Metadata Interchange (XMI®), Query / Views / Transformations (QVT) and Object Constraint Language (OCL).

MODEL PATTERNS Powerful re-use facilities to jumpstart projects through predefined patterns.

ACCESS TO MULTIPLE DATA SOURCES AND PLATFORMS

IMPORT BRIDGES Import model information from BI, ETL, and NoSQL platforms, other modeling tools, and industry-standard metadata interchange formats.

EXPORT BRIDGES Easily export your models to BI, ETL, other modeling tools, and industry-standard exchange formats such as XMI, XML, and XSD.

DATA LINEAGE VISIBILITY Visualize source-target mapping and sourcing rules designed in an external Extract-Transform-Load (ETL) tool or Data Integration (DI) tool.

ETL/DI TOOL INTEGRATION Import mapping requirements information to the lineage model from most of the leading ETL and DI tools.

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