

ER/Studio[®]

Enterprise Data Modeling

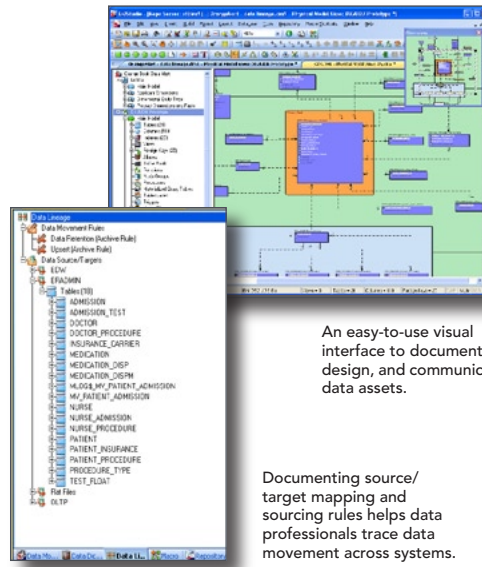

EMBARCADERO
TECHNOLOGIES


Embarcadero[®] ER/Studio[®], an industry-leading data modeling tool, helps companies discover, document, and re-use data assets. With round-trip database support, data architects have the power to easily reverse-engineer, analyze, and optimize existing databases. Productivity gains and enforcement of organizational standards can be achieved with ER/Studio's strong collaboration capabilities.

- Document and enhance existing databases
- Improve data consistency
- Effectively communicate models across the enterprise
- Trace data origins and whereabouts to enhance data integration and accuracy
- Model more than your data

DOCUMENT AND ENHANCE EXISTING DATABASES

ER/Studio provides an easy-to-use visual interface to document, understand, and publish information about existing databases so that they can be better harnessed to support business objectives. Powerful reverse engineering of industry-leading database systems allow a data modeler to compare and consolidate common data structures without creating unnecessary duplication. Using industry standard notations, data modelers can create an information hub by importing, analyzing, and repurposing metadata from data sources such as business intelligence applications, ETL environments, XML documents, and other modeling solutions.



An easy-to-use visual interface to document, design, and communicate data assets.

Documenting source/target mapping and sourcing rules helps data professionals trace data movement across systems.

IMPROVE DATA CONSISTENCY

Knowledge workers can spend significant amounts of time looking through data sources, researching what information means, and find that it is not being used appropriately. ER/Studio helps data architects define and reuse common data elements and modeling components across projects to establish standards in their modeling practices. By enforcing standards, and being able to analyze and document data elements, corporations can better understand and utilize their data, reduce redundancy, and build consistency.

EFFECTIVELY COMMUNICATE MODELS ACROSS THE ENTERPRISE

ER/Studio brings clarity to models and to complex business rule enforcement. The multilevel design layers allow for the accurate visualization of data, which promotes communication between business and technical users. Streamlined navigational aids, diagram layout utilities, and powerful report publishing functions simplify the communication of designs within and beyond the data modeling group. ER/Studio makes it easier to understand and communicate the current state of data throughout the enterprise, maintain corporate standards, and encourage appropriate data usage. Bringing all metadata into a central repository helps the transfer of knowledge among stakeholders, and allows users to easily see relationships and business rules that relate to their data.

TRACE DATA ORIGINS AND WHEREABOUTS TO ENHANCE DATA INTEGRATION AND ACCURACY

With a clear understanding of where data originated and where it is used, organizations can be assured that they know what their data actually means and how it can best be utilized. The ER/Studio visual data lineage functionality provides data professionals with the ability to document how data flows through the organization. Attachments also allow organizations to append specific information to their models, thus enhancing documentation.

MODEL MORE THAN YOUR DATA

Modeling isn't just for data and databases. Modeling provides a picture of relationships that can be easily understood, used for impact analysis, and helps make your organization more efficient. With ER/Studio you can use modeling to produce XML schemas to ensure the benefits of modeling are applied to applications and projects such as Service Oriented Architecture (SOA).

Related Products

ER/Studio[®] Enterprise Portal

A browser-based solution allowing organizations to share, browse, and report on information contained in the ER/Studio Repository.

ER/Studio[®] Viewer

View, navigate and print ER/Studio models in a view-only environment.

MetaWizard

Integrate metadata across modeling tools, business intelligence, ETL platforms and industry-standard exchange formats (XMI, XML and XSD).

Universal Data Models

Standard and industry data model templates for ER/Studio that reduce development time and facilitate standardization.

Embarcadero[®] Schema Examiner[™]

Automate error-checking and corrections for database schema to quickly and easily improve data quality and system performance.

Embarcadero[®] EA/Studio[™]

Business modeling tool for connecting process and data.

Embarcadero[®] All-Access[™]

Instant access to the languages, tools, and technologies to design, build, and run your software applications and database systems.

Product Editions

ER/Studio[®] Standard

Provides complete environment for analyzing, designing, creating, and maintaining database applications.

ER/Studio[®] Enterprise

Includes EA/Studio and a server-side repository for improved teamwork and enterprise collaboration.

Features	Description
ER/Studio	
Highly Productive Model-driven Design Environment	
Advanced Graphics and Layout	Automatically creates highly readable, highly navigable diagrams
Multilevel Design Capabilities	Allows many physical designs from a core logical architecture
Automated and Custom Transformation	Streamlines the derivation of a physical design from a logical one and checks for normalization and compliance with the target database platform. Custom datatype mapping further streamlines this process
Denormalization Mapping	Allows physical database designers to optimize a logical design while maintaining ties to the logical artifact
Extensible Automation Interface	Automates tedious, routine tasks such as coloring tables, enforcing and applying naming standards, globally updating storage parameters and integrating with other desktop applications such as Microsoft® Excel®, Word, or Access
Undo/Redo	Reverses the most recent sequence of operations in chronological order
Multiple Presentation Formats	Publishes models and reports in a variety of formats including HTML, RTF, XML Schema, DTD Output, and ER/Studio Viewer, an interactive environment
Complete Database Lifecycle Support	
Forward-engineering	Generates source code for some database designs
Reverse-engineering	Constructs a graphical model from an existing database or schema
Database Modification	Allows design changes made to the data model to be applied directly to a database by formulating intelligent alteration code
Enterprise Model Management	
Advanced Compare and Merge	Enables advanced, bidirectional comparisons and merges of model and database structures such as logical-to-physical, physical-to-physical, physical-to-database, etc.
Submodel Management	Allows creation of multileveled submodels, merging of submodel properties across existing models, and synchronization submodel hierarchies across disparate models
Metadata Integration	Imports and exports metadata from a variety of sources including BI platforms, UML and data modeling solutions, XML schemas, and CWM (common warehouse metamodel) to create a metadata hub
Data Dictionary Standardization, Enforcement and Reuse	Helps define and enforce standard corporate data elements and many other objects across any project. Facilitates communication and support of standards across complex models with domain inheritance, reusable objects, and automatic updates.
"Where Used" Analysis with User-defined Mapping	Displays the mappings between logical entities and attributes and their implementation across physical designs. Allows data architects to customize the mapping of logical and physical artifacts for informational purposes.
XML Schema Generation	Ensure XML projects such as those using Service Oriented Architecture (SOA) are based on the same standards and metadata as your data models by modeling them in ER/Studio and generating XSD from either the physical or logical model.
Repository for Team-centric Collaborative Modeling	Provides organizations using ER/Studio with a scalable, server-side, model management system that includes model and object version management, security management, and the ability to branch and merge models. ER/Studio Repository is available in the Enterprise edition.
Data Warehouse and Integration Support	
Visual Data Lineage	Visually documents source/target mapping and sourcing rules for data movement across systems
Dimensional Modeling	Leverages complex star and snowflake schema designs and supports the importation of its rich dimensional metadata from a variety of BI and data warehouse platforms
Quality Database Design	
Model Completion Validation	Automates model reviews and enforces standards with more than 50 checks to validate logical and physical models for missing object definitions, unused domains, identical unique indexes, and circular relationships
Automatic Migration of Foreign Keys	Maintains foreign keys to ensure referential integrity in designs
Capacity Planning	Manages row count and growth rates for tables and can calculate future storage requirements and forecasts future needs
Security Design and Assessment	
Data Classification	Categorizes and labels data and objects according the level of security and privacy that should be applied to that information
Permission Management	Enables users, roles, and permissions modeling at the logical and physical level

DBMS Support	
<ul style="list-style-type: none"> Hitachi® HiRDB IBM® DB2®: 5.x, 6.x, 7.x, 8.x, 9.x for LUW; 5.x, 6.x, 7.x, 8.x for z/OS®; and iSeries V4R5 and V5R2 Informix® OnLine and SE Informix 9.x dynamic server InterBase® 4 Microsoft® Access 2.0, 95, 97, 2000 Microsoft SQL Server 7, 2000, 2005, 2008 Microsoft Visual FoxPro® 3, 4, 5 	<ul style="list-style-type: none"> MySQL® 3.x, 4.x, 5.x NCR® Teradata® V2R4, V2R5, V2R6 Oracle® 7.3.x, 8.x, 9i, 10g, 11g PostgreSQL 8.x Sybase® Adaptive Server® Enterprise (ASE) 11.9.2, 12.x, 12.5, 15.0 Sybase Adaptive Server Anywhere (ASA) 5, 6, 7, 8, 9, 10 Sybase IQ 12.5 Sybase Watcom SQL

System Requirements	
<ul style="list-style-type: none"> Client System Requirements 100 MB of hard disk storage 512 MB of RAM recommended (1 GB recommended for large diagrams: e.g., 1000 + entity range) 1024 x 768 display resolution recommended Windows 2000, Windows XP, Windows 2003 Server, and Windows Vista (Ultimate and Business) - 32-bit architecture only (SP1 and SP2) Native Connections: Oracle, DB2 UDB (LUW, iSeries, and z/OS), SQL Server, and Sybase client libraries required 	<ul style="list-style-type: none"> ODBC Connections: For databases ER/Studio supports via ODBC, a valid ODBC driver is required Server Repository Requirements Pentium IV-class processor or higher 40MB hard disk storage for installation required 2 GB of RAM Windows 2000, Windows XP, Windows 2003 Server Native Connections: Oracle, DB2 UDB (LUW, iSeries, and z/OS), SQL Server, and Sybase client libraries required

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