ER/Studio®, a model-driven data architecture and database design solution, helps companies discover, document, and reuse data assets. With round-trip database support, data architects have the power to thoroughly analyze existing data sources as well as design and implement high quality databases that reflect business needs. The highly-readable visual format enhances communication across job functions, from business analysts to application developers. ER/Studio Enterprise also enables team and enterprise collaboration with its repository.

- Enhance visibility into your existing data assets
- Effectively communicate models across the enterprise
- Improve data consistency
- Trace data origins and whereabouts to enhance data integration and accuracy

**ENHANCE VISIBILITY INTO YOUR EXISTING DATA ASSETS**

As data volumes grow and environments become more complex corporations find it increasingly difficult to leverage their information. ER/Studio provides an easy-to-use visual medium to document, understand, and publish information about data assets so that they can be 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.

**IMPROVE DATA CONSISTENCY**

When businesses rely on information to make key decisions, the underlying data needs to be accurate and relevant. 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. ER/Studio’s 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 to enhance documentation.

Related Products

- **ER/Studio Viewer** View, navigate and print ER/Studio models in a view-only environment.
- **Describe™** Design, document, and maintain enterprise applications written in Java, C++, and IDL for better code quality and shorter time to market.
- **DT/Studio®** Achieve new levels of usability, scalability, and flexibility by combining visual data modeling with a visual data flow designer and an extensible Java-based ETL engine with DT/Studio.
- **Modeling Solution Pack** ER/Studio and Describe unite and simplify the enterprise application-to-database development chasms.

Product Editions

- **ER/Studio Standard** – provides complete environment for analyzing, designing, creating, and maintaining database applications; connects to repository available with enterprise edition
- **ER/Studio Enterprise** – Includes repository for improved teamwork and enterprise collaboration.
### Feature | Description
--- | ---
Highly Productive Model-driven Design Environment | Allows many physical designs from a core logical architecture
Multi-level Design Capabilities | Streamlines the derivation of a physical design from a logical one and checks for normalization and compliance with the target database platform
Automated Transformation | Allows physical database designers to optimize a logical design while maintaining ties to the logical artifact.
Denormalization Mapping | 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
Extensible Automation Interface | Supports IDEFIX, Information Engineering (IE or "Crow’s Foot") as well as Filtered IE which hides all foreign keys
Industry Standard Design Notations | Complete Database Lifecycle Support
Reverse-engineering | Constructs a graphical model from an existing database or schema
Forward-engineering | Generates source code for some database designs
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 | Enables advanced, bidirectional comparisons, and merges of model and database structures such as logical to physical, physical to physical, physical to database, etc.
Advanced Compare and Merge | Allows creation of multi-leveled submodels, merging of submodel properties across existing models, and synchronization submodel hierarchies across disparate models
Submodel Management | 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
Metadata Integration | Helps define and enforce standard corporate data elements, and other objects across any project. Facilitates communication and support of standards across complex models with domain inheritance, reusable objects, and automatic updates
Data Dictionary Standardization, Enforcement and Reuse | 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
"Where Used" Analysis with User-defined Mapping | Provides organizations with scalable, server-side, model management that includes model and object version management, security management, and the ability to branch and merge models. The repository is available in the Enterprise edition
Repository for Team-centric Collaborative Modeling | Enterprise-caliber Communication Capabilities
Advanced Graphics and Layout | Automatically creates highly readable, highly navigable diagrams
Automated Web Publishing | Generates HTML reports of complete diagrams that can easily be shared across an intranet
Presentation-Quality RTF (Microsoft® Word) Reports | Delivers completely customizable RTF report output suitable for professional presentations or publications
XML Schema and DTD Output | Offers www.w3c.org XSD (Schema) and DTD output of its data models to accommodate customer-specific extensions
ER/Studio Viewer | Provides anyone outside the data modeling team with an interactive environment for viewing ER/Studio data models.
Data Warehouse and Integration Support
Data Lineage Documenting | 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 variety of BI and data warehouse platforms
Data Model Export | Supports exporting data warehouse designs to a variety of platforms and development solutions
Quality Database Designs
Automatic Foreign Key Migration | Maintains foreign keys to ensure referential integrity in designs.
Validation Wizards | Incorporates wizards to promote normalization of logical diagrams and ensure that physical designs comply with the syntax and naming rules of the target diagram
Auto-documentation | Allows the addition of definitions and notes efficiently from the visual editors and constructs verb phrase sentences to clarify the purpose of relationships
Security/Permissions Modeling | Enables users, roles, and permissions modeling at the logical and physical level
Capacity Planning | Manages row count and growth rates for tables and can calculate future storage requirements and forecasts future needs

### DBMS Support
- Hitachi® HiRDB
- IBM® DB2® Universal Database® 5.x, 6.x, 7.x & 8.x for LUW, 5.x, 6.x, 7.x, 8.x for z/OS® & Series V4R5 and V5R2
- Informix® OnLine and SE
- Informix 9.x family database server
- InterBase™ 4
- Microsoft® Access 2.0, 95, 97 & 2000
- Microsoft SQL Server 6.5, 7, 2000 & 2005
- Microsoft Visual FoxPro® 3, 4, 5
- MySQL® 3.x, 4.x
- NCR Teradata V2R4, V2R5
- Oracle® 7.3.x, 8.x, 9i, 10g
- Sybase® Adaptive Server Enterprise (ASE) 11.9.2, 12.x & 12.5
- Sybase Adaptive Server Anywhere (ASA) 5, 6, 7, 8, 9
- Sybase Watcom™ SQL

### System Requirements
- 100 MB of hard disk storage
- 512 MB of RAM recommended (1 GB recommended for large diagrams: i.e., 1000 + entity range)
- 1024 _ 768 Display Resolution recommended
- Native Connections: Oracle, DB2® UDB (LUW, iSeries and z/OS), SQL Server and Sybase client libraries required
- ODBC Connections: For databases ER/Studio supports via ODBC, a valid ODBC driver is required

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