

GENERAL LOGICAL MODELING

ENTERPRISE DATA ARCHITECT

Logical Modeling

Provides a separate modeling environment for logical modeling than physical models	x	x
Provides modeling of database views in the logical model in preparation of DBMS-specific model generation	x	x
Supports data model fundamentals in propagating Foreign Keys when relationships are established between entities	x	x
Diagrammatically hide foreign keys for conceptual presentations	x	x
Generate UML class structures from logical entities	x	x
Support Logical Versus Physical Nomenclature for objects	x	x
Supports Logical and Physical where used information		
Shows how logical entities, attributes and views are represented in each physical model	x	x
Visually see submodel or subject area "Where Used" within Entity or Table Editor	x	x
Visually see how a logical entity relates to many physical tables in Physical Model(s)	x	x
Customize logical and physical mappings between entities and tables and attributes and columns	x	x
Navigate between related logical and physical entities/tables	x	x

Data Dictionary System

Support an ability to access and reuse common elements	x	x
Establishes Reusable Domain System Across Data Models	x	x
Supports Reusable User Defined Type System Across Data Models	x	x
Supports a reusable Rule/Constraint system both logically and physically	x	x
Includes an internally managed system for Allowed Valued (Reference or Lookup Data) that can be reused across the model	x	x
Provides the user with a simple means to display where dictionary elements have been distributed to for impact analysis	x	x

Meta Model Extensibility

Product must be able to support user-defined meta model extensions simply and efficiently	x	x
Classify types of extended meta data by object class	x	x
Ability to "push" Attached Extended Meta Data to desired objects	x	x
Easily see where extended meta data has been bound to, object by object.	x	x
Product's object property editors must provide a UI to access extended meta data	x	x
Ability to access external source files and launch them for view/edit purposes from within the modeling product itself.	x	x

Data Security Management

Easily capture security metadata	x	x
Provides method for classifying the security impact of data	x	x
Allows model objects to be mapped to compliance regulations such as SOX or HIPPA	x	x
Assign privacy levels of data within a model, submodel, table or column	x	x

GENERAL PHYSICAL MODELING

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Physical Modeling

Connects to datasources through 3rd party ODBC drivers	x	x
Connects to datasources through DBMS client software	x	x

General Reverse Engineering Functionality

Provides a list of owners whose objects can be reverse engineered into a physical model	x	x
Filter by object type to reverse engineer into a physical model	x	x
Filter a list of tables/views to reverse engineer into a physical model	x	x
Infer primary and foreign keys during the reverse engineer process	x	x
Build a domain list based on columns in the database to help enforce and promote standardization and reuse	x	x
Connect to datasources through 3rd party ODBC drivers for forward engineering via ODBC	x	x
Connect to datasources through DBMS client software for forward engineering via native client connections	x	x
Provides a list of tables/views to reverse engineer into a physical model	x	x
Produce a .SQL script based upon selected objects	x	x
Produce separate .SQL files for each model object so that they can be place easily into source code systems	x	x
Forward engineer selected objects directly to database	x	x

Modify database structures based upon changes to model	x	x
Diagram updates when changes occur in the database	x	x
Push changes up to the logical model from the physical model/database	x	x
Data Movement / ETL Management		
Captures ETL mappings and data movement rules	x	x
Capture data movement rules to document the behavior of the data in a table when inserted, updated, archived, purged, etc	x	x
Capture source column mappings and transform logic/description	x	x
Capture target column mappings and transform logic/description	x	x
Capture multiple levels of source/target mapping to represent lineage of the data	x	x
Visual data lineage that visually documents source/target mapping and sourcing rules for data movement across systems	x	x
Capacity Planning Functionality		
Manage and estimate growth of data for a physical model	x	x
Store row count info for each table	x	x
Reverse engineer growth metrics from live database	x	x
Assign different growth rates for each table based on business rules	x	x
Allow for multiple growth rate types like "by row" or "by percent"	x	x
Parser-support Between Physical Model Objects		
Supports strong parsing technology to establish ties between precompiled database code (stored procedures) and the tables that may be dependant upon them	x	x
Automatically detect table dependency from stored procedure code	x	x
Provides UI to easily determine object 'dependants' for impact analysis	x	x
Propagates updates automatically to code when referenced objects are changed	x	x
Allows user to access object CREATE code from individual object editors before code generation utilities	x	x
Color Coded DDL Syntax that displays database reserved words/key words in traditional color-coded syntax within the product	x	x
Represent physical objects like procedures, packages, functions, tablespaces and their dependencies on the model	x	x
Automatically link Database Views to Tables upon reverse engineering	x	x
Database Security Objects and Grants		
Reverse and forward engineer database security objects and permissions	x	x
Manage database users and associated GRANT statements	x	x
Manage database roles and associated GRANT statements	x	x
GENERAL REPORTING		
	ENTERPRISE	DATA ARCHITECT
Output model information to RTF-readable formats (like Microsoft Word)	x	x
Produce Reports in HTML format	x	x
Reports allows externally 'bound' documentation to be displayed directly within the body of the HTML report through OLE technology	x	x
Reports include a navigable, legible, read-only version of the data model	x	x
Allows navigation to reported meta data by clicking on model objects in HTML Data Model Image	x	x
Reports offer a list of objects contained within the report and hyperlink them to their information	x	x
Generate model meta data to XLS format	x	x
Produce W-3-C Compliant XML and DTD Meta Data Output	x	x
*Export model information to BI, ETL, other modeling tools, and industry-standard metadata interchange formats. Available through MetaWizard	x	x
*Import model information from BI, ETL, other modeling tools, and industry-standard metadata interchange formats. Available through MetaWizard	x	x

REPOSITORY	ENTERPRISE	DATA ARCHITECT
Collaboration		
Allows multiple modelers to access models concurrently	x	
Notifies modelers connected to Repository Diagrams who is working on same objects	x	
Notifies modelers connected to Repository of the status of the collaboration status of an object	x	
Includes intelligent conflict resolution system when two or more modelers are contending to change the same object	x	
Implements a separate system for implementing common items (Domains, extended properties etc) across diagrams stored in the Repository	x	
Provides an interfact to see how common dictionary objects are used across the repository	x	
Provides a classification system to group diagrams together in the Repository	x	
Version Control		
Captures Periodic Releases of Data Models	x	
Ability to revert to capture releases (Roll back)	x	
Compare and merge information between diagrams in the Repository	x	
Supports commenting on check ins and check outs like source control system	x	
Security & Privileges		
Implements a system to create unique Repository Users with individual privilege settings	x	
Allows levels of security access to diagrams and objects based upon team hierarchies	x	
Product security is able to protect diagrams for unwanted access	x	
Allows control over certain object types managed in the Repository lower that "Connect" rights	x	
Control access to certain re-useable data elements across diagrams from unwanted access	x	
Allows the users to check out individual objects, not just the whole diagram by default	x	
Allow a user to check out and object and bar others from doing so while user has item checked out	x	
Enterprise Data Dictionary		
Support an ability to access and reuse common elements across models	x	
Establishes Reusable Domain System Across Data Models	x	
Supports Reusable User Defined Type System Across Data Models	x	
Supports a reusable Rule/Constraint system both logically and physically	x	
Includes an internally managed system for Allowed Valued (Reference or Lookup Data) that can be reused across the model	x	
Provides the user with a simple means to display where dictionary elements have been distributed to for impact analysis	x	
Enterprise Portal		
Browser-based searching (simple and advanced) of ER/Studio Repository Metadata	x	
Customized, self-service reporting on ER/Studio Repository metadata	x	
Centralized navigation and exploring of models via a browser	x	
Object commenting of portal content	x	
Labeling of content in repository to classify and group related content	x	
Activity monitoring to see what objects have changed in the Repository and users who have accessed the portal	x	
GENERAL PRODUCT USABILITY	ENTERPRISE	DATA ARCHITECT
N-level Undo / Redo	x	x
Provides thumbnail view to navigate large diagrams	x	x
Marquee Lasso Zoom	x	x
Explorer Browser Object Navigation	x	x
Allows user to quickly see the number of entities, attributes, relationships, views etc that are in the model	x	x
Property editors conform to Windows standards and allow 1 layer deep access to properties	x	x
Property editors conform to Windows standards and allow expansion for ease in entering data	x	x
On Screen Object Editing (Editorless via Key Strokes)	x	x
On-Screen Logical Primary Key Creation (Editorless via Key Strokes)	x	x
On-Screen Attribute Copy/Move Function	x	x
Global Search/Report/Replace Utility	x	x
Wizard-driven Task Completion	x	x
Lasso Multiple Objects and access Right Mouse Options	x	x

Offers simple and fast way to break down large models by lassoing desired objects and quickly establishing a subject area of them	x	x
Quick access to diagrammatic property changes to desired objects like color	x	x
Navigate user to desired Help section from specific property editors, etc.	x	x
Non-Proprietary Automation Interface (API)		
Provides a programmatic interface in a common & industry-accepted language in order to programmatically access product's object model	x	x
Support sVB or VBA-like macro creation	x	x
Near-immediate accessibility to macros to ensure workflow and productivity	x	x
Macro editor within product provides 'keystroke access' to product's object model for quick reference and accuracy	x	x
Provide a reference map of the products objects	x	x
Sample scripts to use as a basis for user macros included	x	x
Variety of different layout strategies for logical and physical models	x	x
General Product		
Operating Systems	x	x
Windows 2000	x	x
Windows XP	x	x
Windows Vista (Ultimate, Business)	x	x
DBMS PLATFORMS SUPPORTED IN DATA ARCHITECT		
Informix® OnLine and SE	x	x
Informix 9.x dynamic server	x	x
InterBase® 4, 2007, 2009	x	x
Hitachi® HiRDB	x	x
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® & iSeries V4R5 and V5R2	x	x
Informix® OnLine and SE	x	x
Informix 9.x dynamic server	x	x
InterBase® 4, 2007	x	x
Microsoft® Access 2.0, 95, 97 & 2000	x	x
Microsoft SQL Server 6.5, 7, 2000, 2005, 2008	x	x
Microsoft Visual FoxPro® 3, 4, 5	x	x
MySQL® 3.x, 4.x, 5.x	x	x
NCR® Teradata® V2R4, V2R5, V2R6, 12	x	x
Oracle® 7.3.x, 8.x, 9i, 10g, 11g	x	x
PostgreSQL 8.x	x	x
Sybase® Adaptive Server® Enterprise(ASE) 11.9.2, 12.x, 12.5, 15.0	x	x
sSybase Adaptive Server Anywhere (ASA) 5, 6, 7, 8, 9, 10	x	x
Sybase IQ 12.x	x	x
Sybase Watcom SQL	x	x
SOFTWARE MODELING		
Standard with sample projects to familiarize users with features	x	ENTERPRISE DATA ARCHITECT
Sample cheat sheets with interactive tutorials	x	
Query/View/Transformation language to transform UML, BPMN, data models and custom model types.	x	
Logical and physical packages to group elements and store diagrams	x	
Model shortcuts for creating multiple shortcuts to the same element on different model diagrams.	x	
Model Hyperlinking to create hyperlink from diagrams to other system artifacts and browse them directly.	x	
Interoperability is supported with various types of model import and export to XMI, MDL and MDX.	x	
External documentation for open projects. Output formats for RTF, HTML, TXT, PDF and XSL-FO	x	
Supports UML 2.0 to visualize, specify, construct, and document the artifacts of the distributed objects systems.	x	
Optional profile to support the "modeling in color" methodology with support for roles, moment-interval, Mi-detail, party, place, thing and description.	x	
Supports the most frequently used diagrams and notations defined in the UML 2.0 specification, including activity, class, use, component, composite, deployment, state machine and interaction diagrams.	x	

Includes pre-installed profiles and allows users to create profile definitions, including profile definition projects such as stereotypes, palette contributions, extensions and contributions.	x
Supports two-way and three-way EMF and UML model comparisons in a tree view. Results can be exported to an EMF XML file.	x
Utilizes standard Eclipse synchronization APIs to provide integration with version control systems to compare and merge shared models.	x
Supports templates to provide the ability to show templates, template signatures, parameters and template bindings in a UML 2.0 diagram	x
Object Constraint Language (OCL) 2.0 support for syntax highlighting, error validation, code completion and model queries.	x
Design patterns that are available in stock patterns supporting Gang of Four, J2EE Design, Fowler's EAI, and Web Services, and custom design patterns.	x
OCL-based model audits and metrics support model inspections and can be easily be defined, saved, and reused.	x
Version control systems in place to enable multiple users to work with one modeling project. Supports version control systems that can be integrated into Eclipse.	x
BUSINESS PROCESS AND CONCEPTUAL MODELING	ENTERPRISE DATA ARCHITECT
Support for high-level conceptual modeling using elements such as subject areas, business entities, interactions, and relationships	x
Model links between any conceptual or process modeling elements allowing you to trace relationships between models	x
Conceptual models can be exported to Embarcadero ER/Studio to become the foundation for creating ER/Studio logical data models	x
Support for straightforward process modeling that uses standard elements such as sequences, tasks, swim lanes, start events, and gateways	x
Optional automatic validation of process diagrams to ensure compliance with the BPMN specification and prevent the addition of non-compliant modeling elements	x
Independent sub-processes and embedded collapsible sub-processes can be included within a business process to allow for maximum flexibility in diagramming, while still ensuring a workable visual diagram	x
Impact analysis reports can be generated to show interrelationships between process, data, stewardship, business rules, diagram usage, heritage, connecting objects etc.	x
Impact analysis reports can filter based on type of relationship, object type, or text strings including wildcard matching	x

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