



ER/Studio® Software Architect

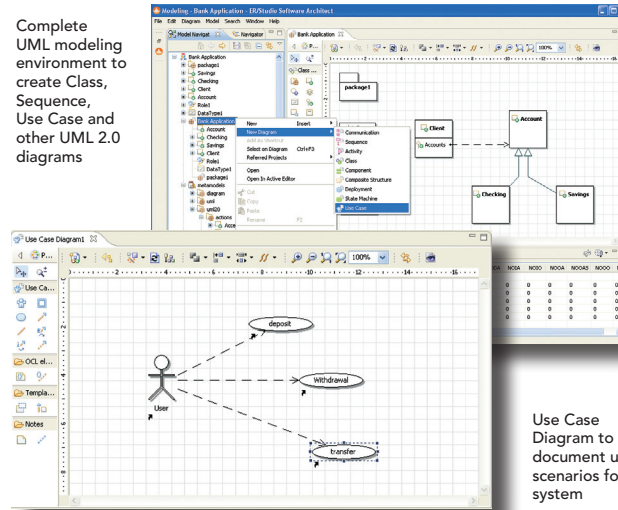
Object-oriented design and analysis



Embarcadero® ER/Studio® Software Architect is an object-oriented modeling tool for application architects to visually design and analyze complex software applications. Supporting the UML 2.0 specification, ER/Studio Software Architect simplifies the design stage of a project by enabling developers and architects to organize and visualize the requirements, subsystems, design patterns, and audit and metrics of intensive software systems.

- Model driven architecture & standards
- Jumpstart applications with industry-standard patterns
- Ensure model quality with audits & metrics
- Improve project tracking with documentation generation

Complete UML modeling environment to create Class, Use Case and other UML 2.0 diagrams



Use Case Diagram to document user scenarios for a system

MODEL DRIVEN ARCHITECTURE & STANDARDS

ER/Studio Software Architect is built on the UML® 2.0 specification enabling organizations to adopt a model driven approach to their software design and analysis. Using this approach, architects and developers are better able to specify, visualize, and document models of entire software systems, and increase the automation of tasks around software modeling. Key features which make ER/Studio Software Architect an easy to use, highly productive environment include a model navigator, a diagram editor and palette and properties view. And, at the core of ER/Studio Software Architect is support for the most popular, widely adopted industry standards including XML for UML 2.0 import/export, Object Constraint Language (OCL), and query/views/transformations (QVT).

JUMPSTART APPLICATIONS WITH INDUSTRY-STANDARD PATTERNS & TEMPLATES

ER/Studio Software Architect provides software developers with a powerful capability to jumpstart projects through predefined patterns and templates. Users and teams are better equipped to handle the daily reoccurring problems that surface in the development lifecycle with reusable and proven design solutions. The industry standard patterns and templates can significantly improve the design and development of high quality software, leading to reduced software development costs, and greater flexibility and adaptability of the resulting software system. Both stock patterns (Gang of Four) and the ability to create custom patterns are available.

ENSURE MODEL QUALITY WITH AUDITS & METRICS

Analyze, measure and validate ongoing projects with OCL-based model audits and metrics. Architects and developers can better automate the quality assurance and design of object oriented software with audits and metrics. The model audits and metrics can easily be defined, saved, and reused – saving time, improving quality and enabling better monitoring and inspection of ongoing projects. Users can run them from the command line, against one or more projects, a subset of a project, or on an individual element.

IMPROVE PROJECT TRACKING WITH DOCUMENTATION GENERATION

Save time and keep project teams in sync with Software Architect's documentation generation facilities. Developers can easily create external documentation for open projects, or from the command line, using pre-defined or custom templates. Track projects, document pattern and profile definitions, or output the results of model audits into a number of different formats including RTF, HTML, TXT and PDF.

Design & Modeling Products

ER/Studio XE2

Complete modeling and architecture solution combining data, process and UML modeling into a powerful multi-level design environment. All XE2 products include AppWave™, so you can experience your apps friction-free, like a mobile app. You can run instantly, track app usage, get automatic updates and more.

ER/Studio® Data Architect

Data modeling tool for analyzing, designing, creating, and maintaining database applications

ER/Studio® Portal

Centralize self-service web portal for searching and reporting metadata contained in the ER/Studio Repository

ER/Studio® Repository

Server-side model management system for collaborative team modeling

ER/Studio®

Business Architect

Business modeling tool for connecting process and data

ER/Studio®

Software Architect

Object-oriented modeling tool to visually analyze, design and implement complex application and data structures

ER/Studio® MetaWizard

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

ER/Studio® Viewer

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

ER/Studio®

Universal Data Models

Industry data model templates for ER/Studio that reduce development time and facilitate standardization

General Features

Eclipse Platform	Based on the Eclipse 3.4 platform.
Sample Projects	Includes sample projects to familiarize users with features. Sample projects include Audit & Metrics, Patterns & Templates, Profile Definitions, UML Diagrams and UML 2.0 Notations.
Sample Cheat Sheets	Cheat sheets provide interactive tutorials to help users get started with key features in the product. Cheat sheets include defining and running model audits, creating patterns from scratch, and defining UML profiles.
Query/View/Transformation	Standard language to transform UML, BPMN, data models and custom model types.
Project Workspace	Contains all the resources for a user's work where project properties can be created including pattern definition projects, profile definition projects and UML 2.0 projects.
Packaged Elements	Logical and physical packages to group elements and store diagrams
Model Shortcuts	Model shortcuts make it easy to create multiple shortcuts to the same element on different model diagrams.
Model Hyperlinking	Model Hyperlinking makes it easy to create hyperlinks from diagrams to other system artifacts and browse them directly.
Import/Export	Interoperability is supported with various types of model import and export to XMI, MDL and MDX.
Project Documentation	Create external documentation for open projects. Documentation available for many different projects including, pattern definitions and audit results. Output formats include RTF, HTML, TXT, PDF and XSL-FO

Modeling Features

Supported UML Specification	Supports UML 2.0 to visualize, specify, construct, and document the artifacts of the distributed objects systems.
UML in Color	Optional profile that will support the "modeling in color" methodology with support for roles, moment-interval, Mi-detail, party, place, thing and description.
UML 2.0 Diagrams	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.
UML Profiles	Includes pre-installed profiles and allows users to create profile definitions, including profile definition projects such as stereotypes, palette contributions, extensions and contributions.
EMF and UML Model Compare	Supports two-way and three-way EMF and UML model comparisons in a tree view. Results can be exported to an EMF XMI file.
Compare and Merge	Utilizes standard Eclipse synchronization APIs to provide integration with version control systems to compare and merge shared models.
Template Elements and Generics	Provides the ability to show templates, template signatures, parameters and template bindings in a UML 2.0 diagram
OCL Support	Object Constraint Language (OCL) 2.0 support for syntax highlighting, error validation, code completion and model queries.
Design Patterns	Design patterns that are available in stock patterns supporting Gang of Four, and custom design patterns.
Model Audits & Metrics	OCL-based model audits and metrics support model inspections which can easily be defined, saved, and reused.
Version Control	Version control systems in place to enable multiple users to work with the same modeling project. Supports version control systems that can be integrated into Eclipse

System Requirements

- 220 MB hard disk space minimum (plus additional space during installation)
- Windows XP (SP3), Windows Vista (SP2)
- 1 GB memory (more recommended)
- High resolution monitor (1024x768 or higher, 256 colors)
- Any web browser that supports frames. Microsoft Internet Explorer 6.0 or later is recommended

Download a Free Trial at www.embarcadero.com

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