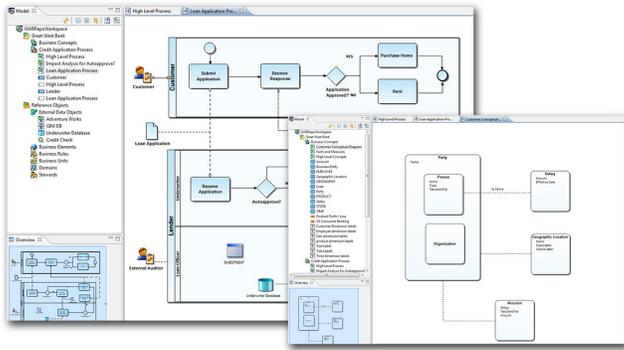# Business Architect

Create conceptual and business process models for data context

embarcadero®

Business Architect for ER/Studio gives data architects powerful yet easy-to-use tools that visualize business processes, and how they access data. Combining the simplicity of a drawing tool with the rich semantics of the BPMN standard, business users can easily model and better understand the often-complex relationships between processes, people, and data.

Ease data overload captured from business processes

Embarcadero ER/Studio eases the challenges for database developers dealing with the tremendous overload of data captured from business processes and other sources, making it one of the best database development tools ever tested by the CRN Test Center - **CRN**

Reduce process complexity with advanced data modeling

Implementing the ER/Studio product line has saved me time and money by reducing the process complexity. . . . Embarcadero continues to demonstrate its commitment to customers, delivering a solid and rapidly evolving data-modeling solution. - **Grant Fitchey, Lead Database Administrator, One of the world's largest commercial and industrial insurance companies**

Mapping Complex Data Structures to Leverage Enterprise Data as an Asset

With increasing reliance on multiple data sources, companies of all sizes are rapidly facing more complex, multi-layered and cross-platform challenges when trying to locate, understand, and accurately interpret essential data. In the healthcare sector alone, providers lose an average of $70 million every year by failing to fully leverage the information they collect.

These challenges are largely driven by inadequate insight and communication across data sources and stakeholders. Data management professionals need to find solutions that:

- Make it easy to capture and document complex data structures
- Easily determine logical and physical relationships between data, people, and processes
- Clearly and effectively communicate data throughout an organization

47 percent of healthcare executives say their organization cannot interpret and translate their information into actionable insight.

How do data management professionals meet these challenges and take full inventory of an enterprise data environment to deliver on data governance initiatives and maximize information utilization?

Business Architect offers business process and conceptual modeling for top-down database design to align with business goals and regulatory requirements

With Business Architect, companies can easily document and understand their present day **business processes**, which makes it easy to examine, analyze, and recommend changes. Companies can use Business Architect to **design and codify changes** to processes, and even manage and communicate interim processes used to affect those changes.

Using the **conceptual modeling** capabilities in Business Architect makes it easy to create a high-level visual representation of your business. This easily-understood model will help you get buy-in and clarification on requirements as you begin your top-down database or business process design.

By modeling the relationships between business processes and their underlying data, companies are better able to take advantage of their technology. Business Architect makes it possible to do things such as **identify all business processes that modify customer data** and determine which business users will lose productivity when a system outage occurs.

Tying together an understanding of business processes, the sensitive data elements they interact with, and the individuals involved is a key element in reaching **compliance with government regulations** such as Sarbanes-Oxley, HIPAA, or Basel II. With Business Architect, both business and technical users can work together to assure the business meets appropriate government regulations.

Business Process Modeling

Process Model Creation	Process model using elements such as sequences, tasks, swim lanes, start events and gateways
BPMN Compliance	Optional automatic validation of process diagrams to ensure compliance with the BPMN specification
Embedded Sub-process Support	Flexibility in diagramming and a workable visual diagram by embedding collapsible sub-processes within a business process

Business Artifact Modeling

External Data Objects	Support for data storage objects to represent databases, file systems or other data storage mechanisms
Business Elements	Capture business terms to enforce naming standards or to build logical models
Business Rules	Incorporate policies, practices or formulae related to business processes
Business Units	Incorporate business units such as sales, human resources or accounting into process models
Stewardship	Support for organizational roles to own specific processes

Conceptual Modeling

Conceptual Model Creation	Support for high-level conceptual modeling using subject areas, business entities, interactions and relationships
Relationship Traceability	Model links between conceptual or process modeling elements
Conceptual Model Export	Export conceptual models to ER/Studio Data Architect to create logical models

Import/Export

Export Across Multiple Formats	Share in supported formats including xml, csv, html, pdf, rtf and jpeg
Visio Import	Configurable capabilities to import diagrams from Microsoft Visio

Impact Analysis Reporting

Multi-object, Multi-level Reporting	Show interrelationships between process, data, stewardship, business rule, diagram usage, heritage and connecting objects
Report Filtering	Filter reports based on type of relationship, object type, text strings including wildcard matching

Usage (CRUD) Reporting

Line Processes with Data	Model to identify what processes create, read, update and delete data objects
CRUD Reporting	Report processes that affect data and the type of effect.
Report Filtering	Reports shown across object types or can be filtered based on individual object types such as tasks and business processes

Powerful and Intuitive User Interface

Organizational Hierarchies	Project-based tree hierarchy to group multiple model types and diagrams to align with business initiatives or organizations
Flexible Interface	Full support for multiple property editors, tab navigation, undo-redo, collapsible nested views and zoom
Grid Editing	Alternative to hierarchical tree view to display large number of objects or business rules for easy viewing

Robust Architecture

Separation of Data and Display	Core data can be manipulated and displayed in a variety of formats speeding performance and increasing knowledge transfer
Object Reuse	Process and enterprise objects can be reused across multiple diagrams allowing single version of truth
Standards-based	Based on Industry standards: Eclipse based, XML file formats from published Schema, BPMN modeling notations

Benefits

- Business process modeling based on the BPMN standard
- Conceptual modeling for top-down database design
- Align technology with business goals
- Enable compliance with government regulations

"ER/Studio allowed us to quickly model, communicate and revise our data model and definitions. Without this tool we may not have attempted the project."- Rebuilding Together