Universal Data Models

ACCELERATE YOUR DATA MODELING EFFORTS WITH PRE-DEFINED TEMPLATES

Developed by renowned author and modeling expert Len Silverston for ER/Studio, these time-proven templates have been continuously updated during the last 25 years and implemented by hundreds of companies that have benefitted from a complete set of data models that ensures quality, reduces development time, and facilitates standardization of existing data models and definitions.

DEVELOP HIGH-QUALITY MODELS FASTER

The Universal Data Models (UDMs) have been developed by a team of experienced data modelers, led by Len Silverston. The pre-defined templates have been refined based on hundreds of implementations and are laid out for easy navigation, including full attributes and detailed definitions for every attribute. These comprehensive model templates make sophisticated data models more accessible to small and medium-sized businesses that previously had to forego them due to budget or IT constraints, as well as being ideal for large, international organizations.

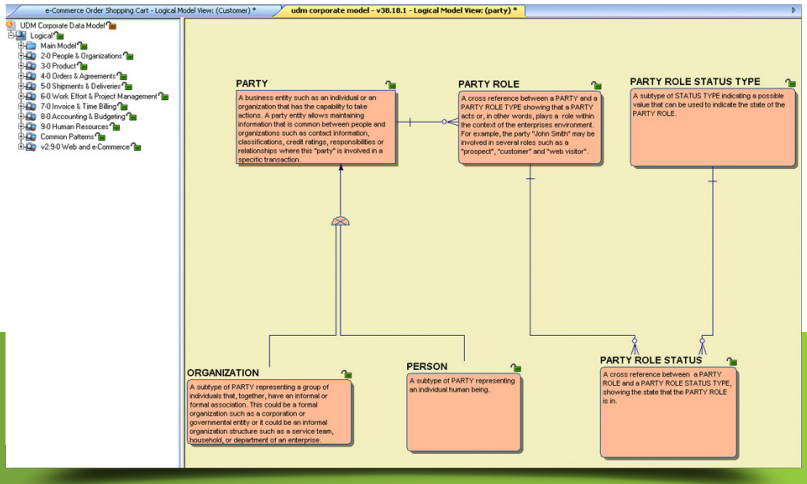
The models are available for nine different subject areas as a complete and integrated corporate model, and nine industry-specific add-ons. All of the models contain a full set of entities, relationships, attributes and detailed definitions. The models are also a great resource for enterprise data modeling, master data management, data warehouse, data governance, data quality, big data programs, canonical/semantic models, ontologies, and any effort where data models can help.

REDUCE DEVELOPMENT REDUNDANCY AND IMPROVE DOCUMENTATION

The UDMs available for ER/Studio reduce development time and ensure quality. The templates arm users with a powerful set of data models and data warehouse designs that jump-start database development projects. They include proven models for common business functions such as ordering and managing products, handling shipments, invoicing, accounting and budgeting, managing human resources, contact management and project management.

New models can be laid out and categorized into subject data areas with ER/Studio's easy-to-use format, reducing data model development and maintenance time by an average of 60%, as well as improve the quality of existing data models. Users can save even more time with the industry-specific extensions for Healthcare, Telecommunications, Manufacturing, Banking, Investments and Financial Services, Insurance, Professional Services, Pharmaceuticals, Energy, and Travel. Most clients say they save at least 50% of the time in developing new data models by using a UDM, and usually apply up to 70% of the UDM constructs.

The Universal Data Models enable users to be consistent with other organizations and improve quality assurance by referencing hundreds of integrated, "best practice" models. UDM customers can refer to a standard, proven source for models that are easily able to handle conflicting opinions regarding data modeling. Redundant constructs within existing designs can be identified and eliminated by reconciling them against standardized entities and definitions.



UDM BENEFITS

- Achieve high-quality models for data integration efforts
- Reduce time and cost for model development and maintenance
- Improve model quality, consistency, and standardization

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

- Rebuilding Together

INDUSTRY-SPECIFIC MODELS

Jump-start your data modeling efforts within a particular industry or define a common data model. Models below include all Subject Area Corporate Models that are integrated into the industry constructs. They include full descriptions of entities and attributes with primary keys and foreign keys (where applicable) defined for each entity.

Banking, Investments and Financial Services	For entities such as Account, Investment Vehicle, Security, Saving Account, Objective, Risk Analysis, Performance Characteristic Type, Yield Type, Financial Position, Mortgage, Scheduled Payment Due, Financial Agreement and Account Notification
Energy	For entities such as Power Plant, Substation Connection, Power Line, Power Transmission, Meter Usage
Healthcare	For entities such as Patient, Insured Party, Insurance Provider, Hospital, Medical Office, Health Care Visit, Health Care Episode, Claim and Settlement
Insurance	For entities such as Insurance Agency, Payor, Insurance Product, Coverage Level, Coverage Type, Actuarial Analysis, Rate, Application, Quote, Insurance Policy, Premium Schedule and Claim
Manufacturing	For entities such as Distribution Channel, Part, Raw Material, Part Specifications, Engineering Changes, Manufacturing BOM, Manufacturing Order and Process Plan
Pharmaceuticals	For entities such as Drug, Ingredient, Clinical Drug Formulation, Formulary, Prescription, Fill, Drug Interaction Effect Type
Professional Services	For entities such as Professional Resource Requirement, Skill Type, RFI, RFQ, RFP, Engagement, Engagement Rate, Professional Assignment, Service Entry and Work Effort
Telecommunications	For entities such as Telecommunications Carrier, Regulatory Agency, Network Component, Network Assembly, Deployment and Service Order
Travel	For entities such as Traveler, Travel Preferences, Travel Reservation, Ticket, Sale, Scheduled Transportation, Accommodation Class and Travel Experience

SUBJECT AREA CORPORATE MODELS

Frameworks and reusable constructs for common corporate subject areas enable specific modeling efforts or the creation of a common data model. They include full descriptions of entities and attributes with primary keys and foreign keys (where applicable) defined for each entity.

Accounting and Budgeting	For entities such as General Ledger Account, Accounting Transaction, Budget, Budget Scenario and Planning Transaction
Human Resources	For entities such as Employee, Position, Responsibility Type, Skill Type, Salary and Benefit
Invoice and Time Billing	For entities such as Invoice, Billing Account, Payment and Financial Account
Orders and Agreements	For entities such as Order, Agreement, Requirement, Quote & RFP
People and Organizations	For entities such as Party, Party Role, Organization, Person and Postal Address
Product	For entities such as Product, Service, Good, Feature Type and Inventory Item
Shipments and Deliveries	For entities such as Shipment, Receipt, Issuance, Shipping Document and Shipment Route Segment
Web and e-Commerce	For entities such as User Preference, Web Address, Object Content Frame, Server Hit and Web Visit
Work Effort and Project Management	For entities such as Work Requirement, Work Effort, Time Entry and Rate Type

STANDARDIZATION OF DATA MODELS IS OFTEN SEEN AS A NEVER ACHIEVED NICE-TO-HAVE, RATHER THAN AN ESSENTIAL INGREDIENT OF A DATA MANAGEMENT AND DATA QUALITY PROGRAM.

Immediate benefit in productivity has been realized since using ER/Studio, especially when leveraging domains that represent template data types. These domains can be created hierarchically so specific properties are inherited from the parent domains. These domains help to ensure that we accurately represent many similar data structures with ease as well as guarantee that we understand the data represented in every data model design we develop.
DM Review

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