erwin® Data Intelligence Suite (erwin DI) Components

AT A GLANCE

erwin DI combines data cataloging, data literacy and automation capabilities in a comprehensive software solution so organisations can harmonize their data management and governance efforts to reduce risks, create efficiencies and maximize the return on their data assets. It takes an active, metadata approach to connect all the pieces of the data management and data governance lifecycle in an automated flow, with full lineage down to the column level as well as impact analysis. Data stakeholders then have access to relevant, accurate, timely and understandable data for collaboration in decision-making.

erwin Data Catalog (erwin DC) automates enterprise metadata management, data mapping, code generation and data lineage for data movement and/or integration and modernization of the architecture. The solution harvests metadata from a broad variety of data sources and maps data elements from source to target, including "data in motion," while harmonising data integration across platforms. erwin DC includes:

- **erwin Metadata Manager** creates and maintains a sustainable metadata foundation for data preparation, management, governance and consumption. It automates manual tasks to increase efficiencies, quality and time to value for data development and deployment.
  - Repository-based metadata storage and management
  - Automated scanning and harvesting of technical metadata using erwin Standard Data Connectors
  - Scheduling and auto-execution of ongoing metadata scans
  - Registration and curation of managed data assets
  - Sensitive data classification complete with a fully navigable dashboard of sensitive enterprise data
  - Comprehensive metadata versioning and change management capabilities
  - Automated data lineage and impact analysis and graphical rendering across physical data assets and data movement processes
  - erwin Standard Data Connectors included as part of the base package

- **erwin Mapping Manager** provides an integrated development environment for creating and maintaining source-to-target mapping and transformation specifications to centrally version control data movement, integration and transformation. Reduce mapping time and costs by up to 80 percent, while improving overall quality.
  - Repository-based mapping projects
  - Integrated mapping environment, including intelligent auto-mapping, drag-and-drop mapping, mapping documentation and reusable transformations libraries
  - Reverse-engineering of ETL/procedural/scripting code into mapping specifications using erwin Smart Data Connectors for auto-documentation
  - Automated code generation from mapping specifications using erwin Smart Data Connectors, for outbound ETL, ELT and scripting of all types

- **erwin Reference Data Manager** manages reference data of all types to provide visibility, control and consistency, reduce costs and ensure accuracy and consistency of use across enterprise systems.
  - Central capturing and management of reference data, valid values and code sets plus their relationships to physical data assets in a single integrated platform
  - Automated validation with rules and reference tables
  - Version management and complex "cross walks" across related reference data assets for standardisation and integration

- **erwin Lifecycle Manager** enables visibility and control for migration, modernisation and integration projects across the system development lifecycle to reduce development time and costs, while improving visibility and accuracy.
  - Association and management of business requirements within mapping projects
  - Test management to document test cases and facilitate automated test script generation within mapping projects
  - Release management for planning, tracking and publishing integration release cycles
  - Built-in integration with HP-ALM testing suite
  - Integration with enterprise requirements management packages (e.g., IBM DOORS) using erwin Smart Data Connectors

- **erwin Business Data Profiling** integrates data profiling with the ability to embed data quality metrics for registered data assets and their associated metadata to reduce the data discovery and assessment cycle, ensuring high-quality results with ease of use for any role.
  - Real-time profiling of registered data assets within the data catalog: surface table/column statistics, including total rows, unique/distinct/null/minimum/maximum values and number of distinct patterns
  - Association of data quality metrics and scoring with harvested metadata
  - Viewing of sample data while browsing registered data assets with the ability to customize the preview query and view the output on demand
  - Support for user-defined metrics and scoring
  - Integrated data quality reporting with consolidated data profiling, quality statistics and reporting of data quality information with other metadata and data curation artifacts at the environment level

erwin Data Literacy (erwin DL) enables data stewards to curate and govern data assets so data consumers can discover data relevant to their roles and understand it within a business context. By creating data communities and promoting data fluency, it ensures stakeholders have an integrated and contextual view of the semantic, business and technical aspects of the entire data landscape. erwin DL includes:

- **erwin Business Glossary Manager** gives data assets business context (terminology, policies, rules) to ensure business visibility, understanding and alignment, thus lowering governance costs, reducing data discovery and analysis cycles, while dramatically accelerating the time to meaningful insights.
  - Powerful and intuitive access and analysis through an interactive mind map that shows semantic relationships between all business and technical assets
  - Authoring and integration of business terminology in one or more glossaries, with business terms related to physical data assets, policies and 'like terms'
  - Fully integrated, user-defined business asset types and descriptive attributes to align with any governance framework
  - Out-of-the-box and user-defined multi-relationships and associations between any business and technical asset types
  - Policy management to author, maintain and publish information policies, combined with roles and responsibilities
  - Rules Manager to define rules for the creation, use and management of terms in business language
  - Out-of-the-box, customisable workflows to manage the authoring, review and approval of business terms, policies and rules

- **Business User Portal** is a web-based, self-service portal geared primarily toward business users to facilitate easy access and collaboration around data asset discovery, consumption and governance. It provides user-friendly access to:
  - Technical and business metadata
  - Glossary terms
  - Reference data management
  - Linkage between business terms and technical metadata
  - Data lineage to understand the flow of information across various systems
  - Impact analysis at the attribute level for full and comprehensive visibility and remediation

- **erwin Smart Data Connectors**

Optional automation and developer productivity tools that harvest data-in-motion directly from a broad variety of code types and industry standard tools and languages (BI, ELT, ETL). Create accurate visibility, improved processes and integrate data consumption platforms with reusable code, saving considerable time and money.
  - Reverse-engineering of metadata and specifications for major BI and reporting solutions
  - Reverse-engineering of ETL/ELT, procedural and scripting code into centrally managed, standardised mapping documents
  - Forward-engineering of ETL/ELT, procedural and scripting code from centrally managed, standardised mapping documents under rigorous lifecycle control and governance
  - Support and connectivity for a wide range of file types, data ecosystem repositories, testing environments and data architecture methodologies