Data Lineage for ER/Studio gives data management professionals and business users essential insight to the extracts, transformations, and loads of complex enterprise data. Data governance and organizational compliance is supported with detailed metadata management for risk reduction and data discrepancy isolation. Labor-intensive data quality-related research can be achieved in a fraction of the time.

**The Challenge of Data Quality Management**

Technical and business users must utilize multiple sources of data in order to make more complex and higher value decisions. This makes the sources, transformations, and movements of that data more difficult to track. Meanwhile, an average of 25 percent data growth across companies makes the tracking challenge even more daunting. Despite the difficulties, organization must do a better job of leveraging enterprise data as an asset to remain competitive—all the while complying with business standards and mandatory regulations. Data management professionals face three distinct challenges:

- Time-efficient tools and processes to easily document ETL workflows
- A more demanding business customer that expects instant answers to data queries
- An ability to collaborate and communicate essential data quality documentation throughout an organization

If effective data lineage is out of reach, there can be bigger penalties to pay. The repercussions of doing nothing can ripple throughout an entire organization.

**Understanding sources, targets, and transformations of enterprise data is a fundamental requirement for any organization to achieve viable data quality.**

Data Lineage offers visibility into multiple ETL platforms reducing problem isolation time while minimizing information loss.

Fortune 100 organizations derive significant benefits from Data Lineage with sophisticated visual data lineage capabilities. Many organizations have more than one ETL tool deployed. The ability to **layer a single data modeling solution** over multiple ETL tools, allows massive data volumes, from diverse sources, to be accessible at every level, including design, production and transformation. Data Lineage imports from ETL tools such as Informatica PowerCenter, IBM DataStage, Microsoft SSIS, Oracle ODI and OWB, SAP Business Objects Data Integrator and Microsoft Excel.

Data Lineage automatically imports complex and challenging ETL transformations as a visual diagram. These diagrams can be stored in, and made available from ER/Studio’s Repository. And making **visual data lineage** accessible from ER/Studio Team Server gives customers the ability to document, report and search across all imported and documented ETL transformations from a single source. Labor-intensive documentation tasks disappear.
Data governance reporting gets so much easier. And the ability to quickly and more accurately interpret large volumes of data becomes a reality.

First, display data lineage from a single view across multiple Extract-Transform-Load (ETL) / Data Integration (DI) products. Next, reduce tribal knowledge by providing an easy to use, centralized, usable documentation of both database systems and data flow processes that connect these systems. Third, set up practices to monitor compliance of existing ETL processes to mapping specifications defined directly in or imported into ER/Studio. Lastly, improve collaboration and requirements formalization between Business Analysts and ETL Development to easily answer the difficult and time consuming question: “Where does this data come from?” for data from ETL/DI data flow processes.

### Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td>Data Lineage</td>
<td>Visualize source-target mapping and sourcing rules designed in an external Extract-Transform-Load (ETL) or Data Integration (DI) tool</td>
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<td>Impact Analysis</td>
<td>Determine impact of changes in a model to the related data flow processes</td>
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<tr>
<td>Reporting</td>
<td>Simple, easy to use report creation for most major ETL/DI products with report formats for varying levels of user interactivity</td>
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<tr>
<td>Mapping Requirements Summarization</td>
<td>Summarize data lineage for different user needs with table level lineage of ETL/DI data flow and document column level data flow</td>
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<tr>
<td>ETL/DI Tool Integration</td>
<td>Import mapping requirements information to the lineage model from most of the leading ETL and DI tools</td>
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**Benefits**

- Multi-ETL platform environment visibility
- Reduce the risk of untraceable data
- Obtain compliance reports
- Minimize the effort and expense of data management
- Reduce problem isolation time

“By using ER/Studio, Idea Integration is able to better support the data management needs of its clients with increased visibility, consistency, and integration that address their database requirements via data lineage tracking and documentation.” - Idea Integration

Ready to learn more about Data Lineage for ER/Studio? - Contact us at 1-888-233-2224 or sales@embarcadero.com

For database professionals, ask us about DBArtisan, the essential heterogeneous tool kit for Oracle, SQL Server, DB2, and Sybase.