ER/Studio Data Architect Technical Specifications

What's New in ER/Studio Data Architect 20.1.x

For the new features and fixed issues in the latest version of ER/Studio Data Architect, see What's New.

System Requirements

Type	Platform	Version
Random Access Memory (RAM)		- 4+ GB
Storage Disk Space		- 2.5+ GB
Operating System	Microsoft Windows *(64-bit)*	- 11 - 10 - 8.1 - 7

Repository *(ER/Studio Data Architect Professional only)*

The **Repository** for **ER/Studio Data Architect Professional** is packaged with **ER/Studio Team Server** and must be installed on a separate server. For more information about ER/Studio Team Server, see ER/Studio Team Server Technical Specifications.

Database Platform Support

ER/Studio Data Architect can reverse and forward engineer data assets to document and design them. The following database platforms are supported.

Platforms

- Platforms marked with **S** can be selected for a single-platform license purchase.
- Platforms marked with **M** are available in our multi-platform license pack.
- Platforms marked with **A** are available in all packs.

Core Platforms

As standard, we include the reverse engineering from database and forward engineering of data definition language (DDL). Our core products also import from a SQL file and feature ALTER script generation from our compare and merge wizard.

Platform	Version	Platform	Core Platform
Amazon Redshift	n/a	**S M**	Yes
Embarcadero InterBase	- 2009 - 2007 - XE3 - XE	**M**	
Firebird	- 2.x - 1.5	**M**	
Google BigQuery	n/a	**S M**	
Greenplum (Pivotal)	- 4.2	**M**	

Hadoop Hive	• 0.13 • 0.12	M	
Hitachi HiRDB	n/a	M	
IBM Db2 Common Server	n/a	M	
IBM Db2 for iSeries	• V5R2 • V4R5	M	
IBM Db2 for Linux, UNIX, and Windows (LUW)	• 5.x to 10.x	S M	Yes
IBM Db2 for z/OS	• 5.x to 11.x	S M	Yes
IBM Informix Dynamic Server	• 9.x	M	
IBM Informix OnLine and SE	n/a	M	
IBM Netezza	• 7.0 • 6.0 • 5.0 • 4.6	M	
JSON (Instance and Schema Files)	n/a	S M	
Microsoft Access	• 2013 • 2000 • 97 • 95 • 2.0	A	
Microsoft Azure SQL Database	n/a	S M	Yes
Microsoft Azure Synapse Analytics	n/a	S M	Yes
Microsoft SQL Server and Microsoft SQL Server on Azure Virtual Machine (VM)	• 2019 • 2017 • 2016 • 2014 • 2012 • 2008 • 2005 • 2000 • 7 • 6.5	S M	Yes
Microsoft Visual FoxPro	• 5 • 3 • 2	A	
MongoDB	• 4.x • 3.6 • 3.4 • 3.2 • 3.0 • 2.6	S M	
MySQL	• 8.0 • 5.x • 4.x • 3.x	M	

Oracle Database	19c 18c 12c 11g 10g 9i 8.x 7.x	**S M**	Yes
PostgreSQL	10.x to 12.x	**S M**	Yes
	9.x 8.x	**M**	
SAP Adaptive Server Anywhere (ASA)	10 9 8 7 6 5	**M**	
SAP Adaptive Server Enterprise (ASE)	15.0 12.x 11.9.2	**S M**	Yes
SAP IQ	16.x 15.x 12.x	**M**	
Snowflake	n/a	**S M**	Yes
Teradata	15.10 14.x 13.0 12 - V2R6 - V2R5 - V2R4	**S M**	Yes
Generic DBMS	n/a	**A**	

MetaWizard Bridges

ER/Studio Data Architect includes a subset of MetaWizard import bridges to access files from common modeling tools.

ER/Studio Enterprise Team Edition includes the full list of MetaWizard import and export bridges that can import metadata from a wide range of technologies such as databases, data lake structures, flat files, business intelligence (BI), and data movement (ETL) tools.

Version History

- Version 20.1
- Version 20.0
- Version 19.3.5
- Version 19.3.4
- Version 19.3.3
- Version 19.3
- Version 19.2.2
- Version 19.2
- Version 19.1.1
- Version 19.1
- Version 19.0.1
- Version 19.0

Version 20.1

- Adds support for Index column ordering in PostgreSQL 10.x-12.x
- Allows user-defined names for the History Table in Azure SQL DB and SQL Server

- Allows a user to select a region when reverse engineering in Google BigQuery

Version 20.0

- Includes an improved Diagram Data Version Upgrade user interface
- Repository Options dialog box now allows users to select whether to add DDL code to Team Server
- Adds support for comments on View Columns in the View Editor
- Includes the ability to change a relationship type for containment relationships in Google BigQuery and MongoDB

Version 19.3.5

- Improves connectivity to multiple Microsoft database platforms
- Adds support for Multi-Factor Authentication for reverse engineering of Azure SQL DB and Synapse

Version 19.3.4

- There are no new features but there are some fixed issues in this release.

Version 19.3.3

- There are no new features but there are some fixed issues in this release.

Version 19.3

- Adds support for Google BigQuery data warehouse

Version 19.2.2

- There are no new features but there are some fixed issues in this release.

Version 19.2

- Improves support for MongoDB
- Includes hierarchical visualization of MongoDB, XML, and JSON
- Supports JSON Instance files
- Allows users to switch between MongoDB and JSON Instance hierarchical platforms

Version 19.1.1

- There are no new features but there are some fixed issues in this release.

Version 19.1

- Adds support for multiple Oracle 12c and later features
- Adds support for multiple Oracle 11g and later features

Version 19.0.1

- Supports additional features for SQL Server Temporal Tables
- Supports additional features for SQL Server In-Memory Optimized Tables
- Allows users to switch between open files
- Adds the Universal Mappings button to the Repository ribbon
- Adds the Diagram Properties button to the Model ribbon
- Adds quotation marks to the Field Names when generating the database JSON

Version 19.0

- Supports Azure Active Directory Password authentication method
- Allows users to log in to Team Server when logging into Repository
- Allows users to relate Business Terms with ER Objects
- Supports the 'where' clause for SQL Server and Azure SQL DB filtered index
- Supports the 'Columnstore' indexes for SQL Server 2012
- Supports Spatial Indexes for SQL Server and Azure SQL DB
- Allows users to define table and index compression for SQL Server
- Allows users to model temporal tables in SQL Server
- Supports extended properties for SQL Server Tables and Columns
- Supports SQL Server 2019
- Adds tolerance support for MySQL 8.0
- Allows users to generate MongoDB model output as plain JSON
- Supports Azure Synapse Analytics
- Supports Inheritance Relationships for PostgreSQL

- Allows TLS between Data Architect and Repository
- Supports WITH CTE for SQL Server 2005+, Azure SQL DB, and Azure Synapse Analytics