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New Features Summary

New Object Editors and Wizards implementation
DBArtisan 8.5 continues the reworking of the object editors and wizards. Aimed at improving workflow and the user interface experience, the new editors and wizards adopt a .NET look and feel, and are being reworked for consistency.

Improvements to SQL Editor components and the underlying SQL Engine
A new results view grid has been implemented. Display options now allow you to switch between HTML, grid, and ASCII views. In addition, the locking mechanism so that locking a query/results window to a datasource remains in effect until you disable the lock, regardless of datasource changes in other windows. Lastly, the results view generated on Select * From functionality, and the Script Execution Facility, is now accompanied by an ISQL editor tab that lets you view and work with the SQL source.

Schema Migration/Extraction enhancements
Options new for 8.5 optimize several aspects of schema extraction and migration. These include an option to determine dependencies by text parsing, a USE statement option, the ability to execute SQL statements before and after procedure or function extraction, and integration of DT/Engine.

Additional currency features
For each supported DBMS, DBArtisan has been upgraded to take advantage of features previously unsupported. Highlights include DB2 table partitioning, Oracle RAC and Automatic Memory Management support, support for Microsoft SQL Server schema objects, 2005 permissions, and new LOB datatypes, and new Sybase datatypes and security features.

Bug fixes and general improvements
The most significant general improvement is to performance when working with large results sets.
Top New Features

New object editors and wizards implementation

For 8.5, Embarcadero continues to revamp the Object Editors and Wizards. Continuing with the approach to MySQL support, 8.5 offers new editors and wizards for all supported DBMS. In addition to adopting a .NET look and feel, the reworked editors and wizards provide the following benefits:

- **Consistency across DBMS and among object types** – Property and option availability has been improved through reorganizing the tabs of editors and wizards. Basic organization, grouping of properties and options, and consistent labeling have been improved to produce a common look across all editor and wizard types.

- **Presentation** – In addition to consistent terminology and a unified approach, use of real estate in dialogs and panes has been improved.

- **Expanded feature support** – The most common customer feedback items are requests for additional support for features offered by each DBArtsan-supported DBMS. For a detailed listing of newly supported features, see Additional Currency Features, below. Most notable for this release are support for the Microsoft SQL Server Schema object and additional support for DB2 tables, particularly partitioning.

In general, the editors and wizards have been reworked to improve workflow and provide a more predictable user interface experience.
Improvements to SQL Editor components and the underlying SQL Engine

The SQL engine has been upgraded to improve stability and performance. The most visible change is a reimplemented grid in the results view. The new grid provides a cleaner look and provides additional display options.

Additional, key functional changes to SQL editing/execution are as follows:

- The lock mechanism has been changed so that it locks the connection from an ISQL window to a datasource/database regardless of datasource choices in other windows. This lets you run multiple queries from the same ISQL window, regardless of other tasks being performed in DBArtisan.

- A new re-execute button, available in the results window, lets you execute a query again without switching to the ISQL window.

- You can change the results view on the fly between standard grid, HTML and flat ASCII views.

- On execution using the Script Execution Facility, or use of the Select * From option, the results view is now accompanied by an ISQL editor Query view. This lets you view the executed code without going to the log and provides all ISQL editor functionality after initial execution using those facilities.
Migration and Extraction

For 8.5, improvements to schema extraction and migration include:

- The ability to determine dependencies by parsing text of an object
- For Sybase, extraction offers the option to include a Use statement

There is now the ability to embed statements within the comments of a stored procedure or function, that will be executed as part of the extraction. This is useful, for example, for creating and dropping temporary tables required by the procedure or function. Tags are provided to have statements executed before or after the function or procedure:

```sql
create procedure dbo.name(@a numeric) as
/*
<ETStart>SQL statement executed before proc or func</ETStart>
<ETEnd> SQL statement executed after proc or func </ETEnd>
*/
begin
...
```
Additional Currency Features
In response to customer requests, a number of new or enhanced features are now available.

For DB2, new or improved features are aimed at DB2 Version 9 table features. They include:

- Table partitioning
- Support for multi-dimension clustering and distribution key columns
- A Copy Scheme command allows for quick copy of a database schema and associated objects
- The Reorganize command for tables and the Refresh Table command for Materialized Query tables have been extended to include new options
- An Update Statistics command is now available for views

For Oracle, new features include:

- Automatic Memory Management support in Database Monitor and Performance Analyst
- Real Application Clusters (RAC) support in Performance Analyst, the ISQL Editor, the SQL Debugger, and Database Monitor
- A Shrink command is now available for tables and indexes.

For Microsoft SQL Server, new features include:

- Schema object support
- SQL Server 2005 permissions
- Additional LOB datatypes (varchar(max), nvarchar(max), and varbinary(max))
- For logins, when dropping logins you can now simultaneously drop associated users. Similarly, when creating users, you no longer have to associate a login.
- When dropping a database, you can now simultaneously delete the backup and restore history.

For Sybase, new or improved features include:

- SSL and Kerberos security support
- Sybase 15 datatypes
- The Data Load wizard now offers BCP options for functional index and virtual computed columns
- You can now create tables designated as temporary

Bug fixes and general improvements
As with any release, Embarcadero has dedicated effort to fixing bugs, improving performance, and responding to specific customer requests. For 8.5, a key improvement is in the area of working with large results sets. For some DBArtisan customers, it is not unusual to work with results sets of rows that number in the hundreds of thousands. These customers will notice a substantial performance improvement in this area with version 8.5. Storage of large results sets has been optimized to reduce the load on memory.
Additional Resources

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- Technical Papers
- Discussion Groups
- Knowledge Base

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