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## The ETI•EXTRACT® Data System Library for C/Microsoft® SQL Server

The ETI•EXTRACT Data System Library (DSL) for C/Microsoft SQL Server provides users with the ability to populate Microsoft SQL Server with data from disparate sources in an efficient and flexible manner as well as query SQL Server data. The DSL can be easily customized to meet a wide range of enterprise application integration needs. In addition, the DSL's architecture is based on OLE DB for access to OLE DB and ODBC data.

### **A powerful tool for data population**

All SQL Server functions, SQL statements, and all commonly used data types are fully supported. Numerous features increase programmer productivity; for example, automatic table lookup enables users to derive data values from additional sources. The DSL generates all of the components required to populate or query a SQL Server database, including all programs and batch scripts.

The DSL supports a variety of interfaces to provide maximum flexibility and optimal performance, including, for example, OLE DB SQL to insert or update data and OLE DB FastLoad to facilitate bulk copying when loading large amounts of data. Another interface supported is Batch Fetch for fast reading of data.

### **Designed for high-level performance**

The DSL for C/Microsoft SQL Server was designed from the ground up for high-level, automated performance. With the DSL, users are not required to declare variables. Instead, they simply execute the SQL statement and the DSL binds all columns automatically. The ordinals for the columns are resolved from the row metadata and are used in specifying the bindings of the columns. Bindings include data value, length, and status of a column.

The DSL also uses batch fetching by default. This capability helps minimize overhead and provides maximum performance for fetching data.

### **Fully customizable to meet unique needs**

Users can take advantage of the DSL's extensive features out of the box. However, they can also customize the DSL for C/Microsoft SQL Server to meet highly specific requirements for migration and transformations. User-specific code, such as specialized read modules, can be incorporated by automatically inserting them into ETI•EXTRACT-generated code at certain points. These numerous, pre-specified code insertion points allow users to define additional processing, alter processing behavior, or incorporate environment- or application-specific logic and routines.

ETI's Data System Libraries  
provide a knowledge base  
for the ETI•EXTRACT Tool  
Suite to generate code for  
individual databases.

The DSL for C/Microsoft  
SQL Server allows corpora-  
tions a powerful, flexible  
means of natively extract-  
ing from and loading data  
into SQL Server databases.

<http://www.eti.com> ■ [information@eti.com](mailto:information@eti.com)

United States 816 Congress Avenue, Suite 1300 ■ Austin, Texas 78701 US ■ Phone: 512/383-3000

France 159 Rue de Sully ■ 92641 Boulogne Cedex France ■ Phone: +33 1 41 10 11 00

U.K. Denmark Court, 18 Market Place ■ Wokingham, Berkshire RG40 1AL UK ■ Phone: 44 (0) 118 977 1221

Australia P.O. Box Q895 ■ Q.V.B. Post Office, NSW 1230 Australia ■ Phone: 61-2 9589 0078

## **OLE DB architecture enables connection with other databases**

The DSL for C/Microsoft SQL Server is based on the OLE DB architecture to allow the exchange of data with OLE DB bridges (including ODBC), either as source or target.

This means that the DSL for C/Microsoft SQL Server allows connection with almost any database on the market today, including Lotus Notes, Excel, Access, Progress, and many other OLE DB/ODBC databases not supported by existing ETI•EXTRACT DSLs. A complete list of tested and supported drivers will be provided with the next release of the DSL.

## **DSL Architecture provides a powerful, flexible foundation**

The DSL for C/Microsoft SQL Server was constructed using ETI's new DSL Architecture, a fourth-generation foundation for Data System Libraries. The new architecture (abbreviated to "DA," for "DSL Architecture") ensures that all DSLs share the same rich, modular functionality. The end result is more power for users.

DA provides for consistency between all DSLs—if a user knows one DSL he or she knows them all. DA makes it easier than ever before to specify business rules, and easier to understand metadata about business rules. And new features ensure that DSLs can be easily customized to meet unique corporate or industry requirements.

## **A strategic database solution**

With ETI•EXTRACT and the DSL for C/Microsoft SQL Server, users can now:

- Populate Microsoft SQL Server with data from a number of sources, in an effective manner,
- Reduce or completely eliminate handcoding required to migrate data among Microsoft SQL Server databases,
- Migrate data among OLE DB/ODBC databases,
- Develop a standardized, reusable solution for database connectivity, and
- Expand the usability of their Microsoft SQL Server solution, helping to create a database environment that can leverage legacy databases as well as accommodate future growth and expansion.