



**ETI High Performance
Connector
for Microsoft SSIS–Teradata**
*ETI Speeds Data Transmission
to Microsoft SQL Server Integration Services*
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Evolutionary Technologies International, Inc.
816 Congress Avenue
Suite 1450
Austin, Texas 78701
www.eti.com

The Problem: Data integration and scalability

In choosing a development platform for a particular application, it is common for large enterprises to spend considerable time worrying about whether a particular solution will be able to scale with respect to performance. However, in today's heterogeneous computing environments, companies are finding that efficiency in communication *between* applications is just as important to timely management decisions as the performance of any particular application—in large part because corporate-level decisions frequently require data from multiple divisions, sites, etc.

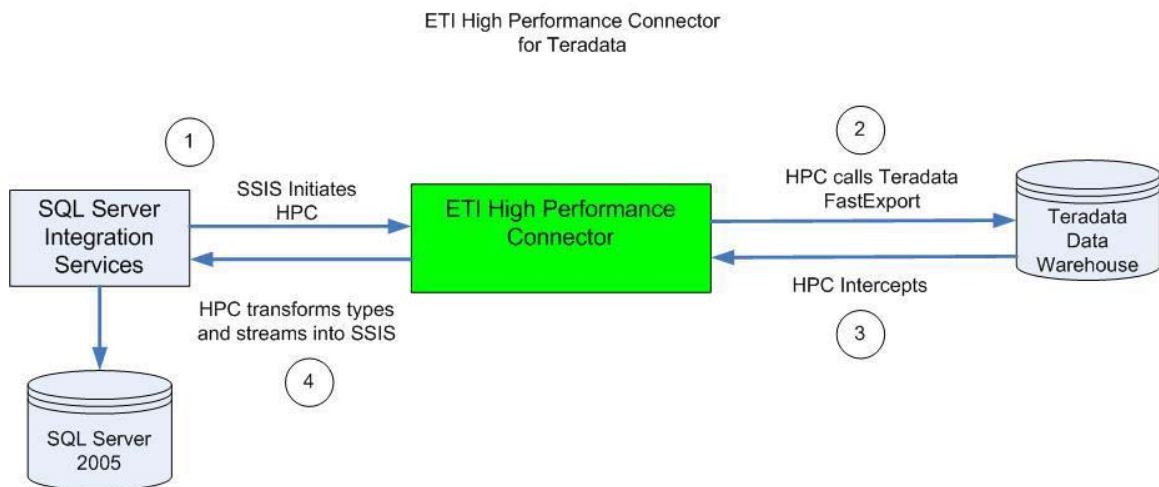
ETI Solution® Version 5 is a collaborative development environment for automating the generation and maintenance of native interfaces that serve as “connectors” between applications. No proprietary code from ETI is required in order to install and/or execute an ETI™-generated interface. Rather, the platform is built to utilize what the customer has in place—or to speed the integration of any new technology that the customer wants to deploy. For this reason, the data interfaces generated by ETI are typically as fast as the technology underlying the applications to be integrated.

The Customer: Transferring data from NCR Teradata to Microsoft® SQL Server Integration Services

When Microsoft was beta testing the SQL Server Integration Services (SSIS) for SQL Server 2005, their telecom beta customer was using Teradata for its enterprise data warehouse and wanted to use the analytical capabilities of SQL Server 2005 against a large volume of data. Unfortunately, using the Teradata OLEDB driver, it took 96 minutes to load a million rows of a 16-column table from Teradata into the SQL Server cube.

The Solution: An ETI High-Speed Connector

Leveraging ETI Solution and working closely with Microsoft, ETI developed a high performance connector (HPC) that executes in the same time (roughly 11 minutes) that it takes the Teradata FastExport utility to write a comparable amount of data to a file. Moreover, the customer calls the ETI HPC directly from the Microsoft SSIS environment without any manual intervention and without requiring that the file be written to disk prior to updating SQL Server. The figure below illustrates how the connector works.



Once the ETI High Speed Connector for Microsoft SSIS–Teradata is installed, the user of Microsoft SSIS can identify the data to be loaded into a SQL Server-based cube for processing (step 1). The query is automatically formatted into a FastExport Script by the ETI HPC (steps 2 and 3) and then a FastExport task is started. Output from FastExport is streamed back to the ETI HPC (step 4), where the data and types are formatted for population of the cube in SQL Server (step 5).

The Future:

ETI and Microsoft share a common vision of what they want for the enterprise customer—scalability, usability, and a strong price/performance strategy. SQL Server 2005 provides the developer with an exceptional set of tools for speeding the design and implementation of world-class BI applications, while ETI insures that those applications have efficient access to the data they need, regardless of where it resides in the enterprise.

The ETI High Speed Connector for Microsoft SSIS—Teradata is the first of a number of high speed connectors ETI will develop for SQL Server 2005. For more information, contact <alliances@eti.com>.