

# Knowledge Solutions LLC

*Helping you make informed business decisions!*

## Data Warehousing Division



*ERP Integration and  
Business Intelligence with  
Teradata*

*April 2, 2011*



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# ERP Integration and Business Intelligence

## White Paper

**Good companies manage their ERP systems.  
Great companies manage their ERP data!**

### Corporate Challenges

ERP systems play a vital role in the administration of a company. They function to make our day-to-day business lives a lot easier and more efficient. However, corporations commonly face three crucial challenges with their ERP environment; data migration, data integration and data usage. **First, ERP systems come and go but data must remain.** Due to changing business needs, companies may have to migrate to another ERP system. However, the data on the old system must not get lost. This creates the challenge that migrating data from one ERP system to another is often risky, time consuming, as well as, costly.

**Second, ERP data is often isolated from other corporate information.** ERP data often provides a myopic perspective of a corporation's operations or division; e.g., financial, human resources, etc. However, ERP data combined with other corporate data can create a corporate view, as well as, a functional view. As an example, Retail companies are able to integrate CRM and Call Center data with ERP data to provide a holistic perspective on the true life-cycle value of a customer and their propensity to buy, pay or leave. Hospitals integrate ERP, billing and claims data to provide claims workflow management to manage and reduce their outstanding claims accounts receivables.

Large corporations have a particular challenge with their ERP environments. These corporations often have multiple ERP and Legacy systems to represent different divisions, business units or corporate acquisitions. As such, it is difficult to aggregate information across ERP systems on a functional (e.g., financial) level let alone the incorporation of additional corporate or 3<sup>rd</sup> party data.

**Third and final, ERP data is not analytical information.** ERP systems often have reporting capabilities but limited Business Intelligence (BI) tools that provide capabilities such as multi-dimensional analysis, dashboards, scorecard, and flexible ad hoc reporting / querying. BI tools can provide insight as to how to compete, what to offer, how to drive more business and how to change one's operations. In addition, if these BI capabilities are placed on the ERP system the BI analytics and querying may impede the performance of the ERP system.

An ERP system **and** its data are critical assets to a company. As such, all companies require an ERP and data strategy to reduce their total cost of ownership and increase the effectiveness of the company.

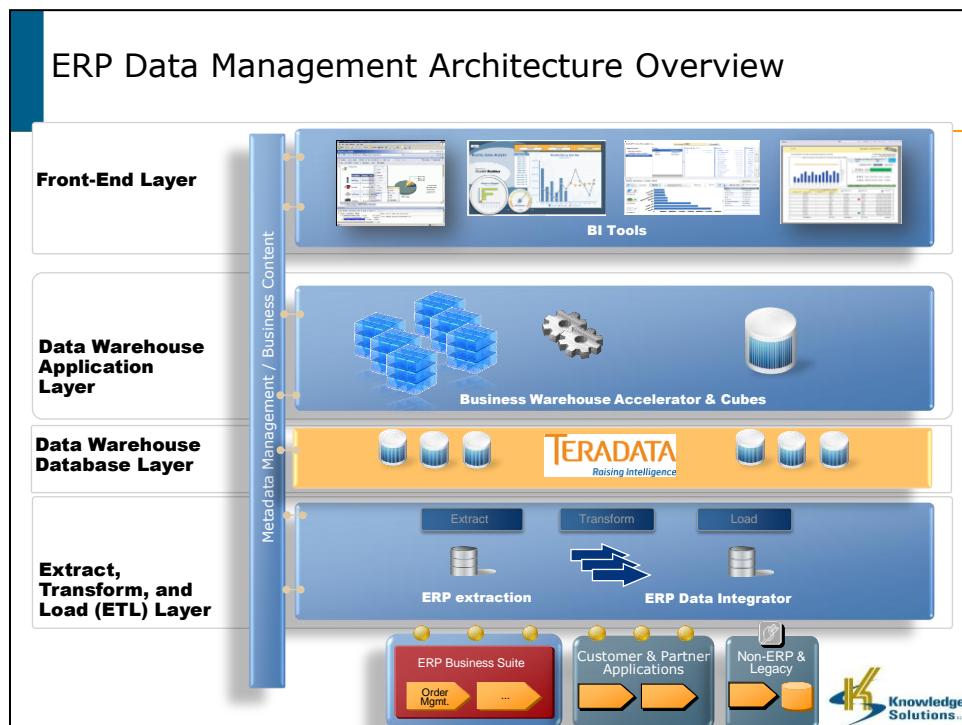
### Knowledge Solutions and Teradata ERP Data Management Solution

More and more companies recognize that their ERP system **and** its data are critical assets to their company. However, many lack an ERP data environment to protect and utilize this asset to reduce their total cost of ownership, to transition system data to corporate information, to rapidly address corporate initiatives and increase the effectiveness of their company. To overcome the ERP challenges outlined above, corporations require an ERP Data Management solution that:

- 1) **Extracts and stores data from the ERP system** – isolates the ERP system for migration capabilities,
- 2) **Establishes a single repository for ERP and non-ERP data** – provides an integrated view of corporate information, and
- 3) **Leverages industry standard business intelligence tools and applications** – enabling an accessible and consistent user environment for analysis and reporting capabilities.

Knowledge Solutions, LLC and Teradata have partnered to provide a Teradata-based “ERP Data Management Solution.” The core of this solution is a four layered architecture:

- **Extract, Transform, and Load (ETL) Layer** – for acquiring ERP and non-ERP data;
- **Database Layer** – for data consistency, organization, integration and management;
- **Application Layer** – to correlate the data to business needs and information requirements; and
- **Front-End Layer** – to provide the end-user business rapid insight, visualization and analysis.



Utilizing Teradata provides corporations with:

- Massively parallel processing capabilities for loading, storing, and accessing data;
- World-class performance, scalability, availability, and manageability;
- Enabled Teradata Active Enterprise Intelligence, any question, any data, any time;
- Scalable, flexible Data Warehouse Management, modeling and operations;
- Significant acceleration of reporting; and
- Enterprise wide LDMs for reduced development time and proven data structures.

In essence, the architecture:

- **Protects existing ERP and data investments** through Data Warehousing and Teradata,
- Allow customers to consolidate on one data warehouse for a **single version of the truth**,
- Consolidate to one business intelligence solution to **increase accessibility and reduce end-user training**,

- **Reduce Total Cost of Ownership** by standardization and harmonization of components for reduced development time and cost, and
- Provide **additional flexibility and migration capability** by supporting enterprise data warehouse functionality on top of the ERP environment.

Utilizing this solution, corporations should expect to achieve:

- **Faster ERP Rollout** – 1/3<sup>rd</sup> less time than traditional roll-outs.
- **Reduced Total Cost of Ownership**
  - 40% decrease in ERP systems integration consulting costs.
  - 35% reduced performance and maintenance support costs through centralized data warehousing (Teradata).
  - 15% - 25% reduced legacy systems and application support costs by accelerated retirement.
  - 40% cost reduction in BI reports & analytic development and maintenance, and end-user training.
- **More capabilities and control**
  - Business users are able to use their preferred 3rd party BI tool (MicroStrategy, Hyperion, Business Objects, LBI, Microsoft, Cognos, etc.) to query directly against an integrated data warehouse.

## About Knowledge Solutions

**Knowledge Solutions (KS)** is a leading provider of information management services delivering strategic solutions that addresses the complex business needs of its clients. With focus on integrating technology, business processes and policies, Knowledge Solutions delivers business-driven and user-centric capabilities that add continuous and measurable value. Core Services include business intelligence, ERP planning, implementation and support, and Complete IT support.

Knowledge Solutions has a long history with Teradata and Teradata-based solutions. From the early stages of DW appliances with Britton-Lee (acquired by Teradata) to facilitating and planning the North East Teradata User Group for over 10 years; Knowledge Solutions has implemented Teradata-based solutions since its inception. As a Teradata Partner, Knowledge Solutions has had many successful data warehouse implementation projects and has presented numerous customer success stories at Teradata Partners' conference.

As with Teradata, Knowledge Solutions has also had a long history with ERP systems. KS ERP staff each has over 10 years of experience with extensive expertise with all ERP Application Suites (Financials, Human Resources, Payroll, Procurement and Supply Chain). KS has successfully migrated many ERP-to-ERP and Legacy-to-ERP environments.

For more information about Knowledge Solutions, please see [www.ksols.com](http://www.ksols.com). Also, follow us on Twitter at <http://twitter.com/KnowledgeSols>.

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