

TERADATA

UNITY LOADER

INTELLIGENT DATA LOADING FOR YOUR TERADATA ANALYTICAL ECOSYSTEM

As companies continue to gather, store, and analyze ever-increasing volumes of data, the demand for business analytics continues to grow. When these analytics are run against current data as well as historical data, the number and variety of users also grows, stretching out to front-line workers and even to consumers.

Businesses have dealt with this trend in different ways, from expanding their integrated data warehouses to augmenting them with special-purpose production systems to accommodate critical needs such as:

- ~ **High availability** for failover scenarios
- ~ **Workload optimization** across systems with specific price/performance characteristics
- ~ **Special purpose applications** to handle strict service level agreements
- ~ **Government regulations** on handling of data.

Traditionally for IT, moving from a single production system to a multi-system environment has meant bringing on more staff, overloading them, and adding risk and complexity to the environment. While for business users, it has meant retraining and increased solution cost.

In reality, it is entirely possible to avoid many of those issues.

TERADATA UNITY

Teradata® Unity is a portfolio of powerful products that are integrated to work together to turn a multi-system environment into an orchestrated analytical ecosystem. Within a Teradata Analytical Ecosystem, Teradata Unity comprises all the features and capabilities needed to simplify and synchronize systems. There are myriad benefits for both IT and business.

IT BENEFITS

- ~ Automated management of the analytical ecosystem enables the warehouse to grow in sophistication and scale without a corresponding increase in staff
- ~ Architectural flexibility to deliver operational and strategic intelligence meets both business and technical needs
- ~ A comprehensive, proven solution reduces risk, saves time, and provides seamless growth in enterprise analytics

BUSINESS BENEFITS

- ~ Transparent access to diverse analytics gets query results to users while shielding them from IT complexities
- ~ Continuous access to analytics allows uninterrupted decision making
- ~ A cost effective solution minimizes the IT investment needed to deliver business analytics

UNITY MANAGER PORTLET



Figure 1. This Viewpoint-based portlet provides a simple-to-use, information-rich interface to easily determine system state, data synchronization level, alert status, and operational administration.

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One of the primary requirements of the Teradata Analytical Ecosystem is synchronizing data between systems, the majority of which is new data loaded from source systems. Accomplishing that task used to require custom-built solutions. No more. Now there is Unity Loader.

Unity Loader is a powerful replacement for custom-built “dual load” solutions. It applies the underlying capabilities of Teradata’s patented SQL Multicast technology to Teradata Parallel Transporter bulk load utilities for intelligent and selective routing of bulk loads to the appropriate Teradata system. In essence, Teradata Parallel Transporter load jobs are pointed at Unity Loader which will intelligently deliver the data updates to one or many systems where the data belongs. For IT, this means simple and seamless growth of the Teradata Analytical Ecosystem and the ability to support additional Teradata systems with little to no increased effort.

In addition, Unity Loader works with Unity Director to sequence database changes and query routing, always ensuring that data updates and database structure changes are applied in the order received; automatically coordinating and maintaining order and consistency across systems. And, it is specifically designed to work with systems that are not identical. For example, if the primary integrated data warehouse contains 100% of the data and there is a second system for high availability that holds a 30% subset of that data, Unity Loader understands the capabilities and limitations of each system and will route data loads accordingly.

EMPOWER USERS

With analytics at the core of business decisions and competitive advantage, it’s increasingly crucial to empower users across the organization. When a multi-system environment is required to deliver on business and technical requirements, the Teradata Analytical Ecosystem is the answer. In combination, the Teradata Unity products offer a comprehensive solution for managing the data warehouse environment with ease and efficiency.



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