Netezza to Teradata Database Migration Service

Data Warehousing > Migration Services

Don't Compromise on Data Warehouse Architecture

When it comes to selecting the data warehouse architecture that meets your needs today – and positions you to grow your business tomorrow – it never pays to compromise. That's especially true for companies whose current Netezza system can't keep pace with their data warehousing demands.

Teradata offers Netezza users a clear migration roadmap and a full array of service and support that can quickly and efficiently get you where you need to be today as well as the flexibility to grow right along with your business. It's a solution that offers:

- > Unmatched scalability
- > Lower cost of maintenance
- > The ability to ask unlimited business questions
- > Analytical insight
- > Data freshness

Build Short- and Long-term Business Success

Teradata Corporation, the global leader in data warehousing and analytics, has more than 30 years of experience helping companies like yours design and build successful data warehouse environments. And over those years, we've proven that we can create analytical environments that offer both short- and long-term business benefits. That time-tested track record is why year after year industry analysts continue to rank Teradata #1 in data warehousing. And it's why our Netezza to Teradata Database Migration Service can provide existing Netezza customers with a stronger overall data warehousing solution, a solution that can provide higher business value at a better acquisition cost as well as lower total cost of ownership (TCO).



A Proven Path to Success

Teradata Professional Services consultants follow a proven, flexible methodology to successfully migrate applications and data from a Netezza data warehouse or data marts to a Teradata system. This process includes specialized migration tools, scripts, examples, and checklists that allow for a rapid, painless migration. It also establishes the process for regular data feeds to the Teradata data warehouse from existing source systems feeding Netezza, as well as allowing for the expansion of source systems. Here's how a typical migration is handled.

Phase One: Initial Business Assessment

This assessment phase examines your overall business goals, as well as your existing environment. It includes a quick assessment of the project's scope, a review that usually takes a single day. The initial assessment also analyzes your existing Netezza data marts or data warehouse, resulting in a timely and accurate estimate of project timelines, effort, and scope.



Why Migrate to Teradata?

By migrating from Netezza to a Teradata data warehousing solution you gain:

- > Better performance.
- > Intelligent scanning query performance.
- > Optimized in-database analytics.
- > Integrated data warehousing.
- > Greater scalability of applications, users, and data.
- > Advanced workload management with tactical and strategic workloads on a single platform.
- > Investment protection across multiple generations of hardware.
- > Real-time loads for data freshness requirements.
- > Mission-critical, highest levels of availability.

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Phase Two: Migration Planning/ Development

The second phase of the migration process involves a much more in-depth analysis of your existing environment. This assessment typically takes a few days to one week to complete depending on the size of your system. We utilize specific, proven processes that allow us to accurately estimate the time and effort needed in any Netezza migration project. In this analysis phase, we'll work with you to answer any specific questions that might give added insight into the project's requirements, developing a more in-depth and accurate assessment of the time and effort that will be involved in the conversion.

The specific analyses during this phase include:

- > Capturing the current environment, including architecture, organization structure, your data warehouse vision, and business and IT objectives.
- > Assessing IT and business users' skill levels.
- > Evaluating the current data model.
- > Evaluating the current ETL method.
- > Estimating application migration needs.

During this second phase, we'll also work with you to determine the correct migration method and approach that best meets your company's business vision for the data warehouse and for your business and technical objectives. We can provide a simple rapid forklift migration to Teradata[®] Database that allows your company to gain the benefits of a more robust, scalable, and secure data warehouse platform. Or, you can choose a more in-depth migration process that offers your company the advantages of a broader integrated enterprise data model and platform.

Once that decision has been made, we'll create a specific project plan using our patented Teradata Solutions Methodology. At the same time, we'll initiate specific resource planning. At the end of the Migration Planning/Development phase, you'll receive a detailed proposal, a statement of work, and a complete project plan.

Phase Three: Migration Implementation During this phase, Teradata consultants migrate the database, operations, and applications used in your Netezza data warehousing environment to Teradata Database. Using a detailed plan developed in the previous Migration Planning/ Development phase and the statement of work, they'll begin the actual rapid migration implementation through a distinct sequence of events including:

Data Migration

Migrating the data from your Netezza data warehouse to Teradata Database uses automated data and code migration tools, utilities, SQL statements, or a combination of these. The Netezza data model can be migrated as it exists. However, some companies choose to redesign their data model prior to the migration; the implementation of the redesigned data model occurs during this phase.

A Typical Migration Approach

A simple ETL approach for taking data from Netezza into a Teradata solution might include:

- > Reusing the current ETL process as appropriate.
- > Intercepting flat files meant for NZSQL (netezza command line) to use with Teradata Database parallel loading utilities without redesigning the data extract process.
- > Using tools from industry-leading ETL vendors to transform and load data to target tables.
- > Loading data using Teradata FastLoad or Teradata MultiLoad to staging tables that leverage Teradata Database's inherent parallel architecture for transformation.
- > Using Teradata TPump for record-level updates to support continuous data feed to the data warehouse.
- > Evaluating the current ETL process to provide an improvement recommendation.



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Phases of Teradata Database Migration Service

Phase One

Initial Business Assessment Examines your overall business goals, as well as your existing environment.

Phase Two

Migration Planning/ Development

- Full Assessment of Migration
 Project a few days to a
 week depending on the
- size of your system > Answer conversion questions
- > Complete estimating
- spreadsheet

> Determine migration method/approach

- > Create project plan
- with Teradata Solutions
- Methodology
- > Resource Planning

Phase Three

Migration Implementation During this phase, Teradata consultants migrate the database, operations, and applications used in your Netezza data warehousing environment to Teradata Database.

Post Migration

Sourcing Data from Operational Systems to Teradata Database

Application Migration

Teradata offers the flexibility to efficiently migrate a range of applications, thirdparty software, and various application interfaces, such as ODBC and JDBC. Because we have a wider range of business intelligence (BI) partners than Netezza, you can choose to leverage or upgrade to new BI tools or applications that were not previously supported within your Netezza environment.

Post Migration: Sourcing Data from Operational Systems to Teradata Database

Once the data from your existing Netezza data warehouse have been migrated to the Teradata Database, data from your operational systems must be loaded directly into Teradata Database. The actual Extract, Transform, and Load (ETL) tools and utilities that will be used – whether the process is automated or manual – depend on a thorough analysis of your existing environment. This analysis includes:

- > What is the current source system?
- > How are data being loaded into the existing Netezza data warehouse? Are Netezza utilities being used?
- > What is the current method of ETL to the Netezza data warehouse?
- > Is a tool currently being used, and if so, how?
- > What are the advantages or disadvantages of using this tool with Teradata Database?

- > What changes, if any, must be made to the tool and processes for them to work with Teradata Database?
- > What is the timeframe for updating the warehouse? How often must the data be refreshed?
- > What quantity of data is being loaded to the warehouse – per hour, per day, per week, per month (average and peak)?

For More Information

For more information about how migrating from Netezza to a Teradata solution can help you build long-term business success, contact your Teradata representative or visit Teradata.com.

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