

Case Study - Heterogeneous and Zero Downtime Migration – Sybase to Oracle

BUSINESS CHALLENGES

- Client is one of the leading e-discovery product company, wanted us to migrate from their current database Sybase to Oracle Database with zero downtime
- To migrate high volume of data with zero-downtime and with no loss of data
- Datatype conversion from Sybase to Oracle along with handling the character-set issue
- Converting the stored procedure from T-SQL to PL/SQL and mapping between the two database
- Eliminating the need of manual procedure and human errors with no data loss and no data corrupt issues
- To automate the migration within the tight timelines



BUSINESS SOLUTION

Aware of the challenges regarding the zero-downtime and lag for data migration, Princeton IT Services was brought in.

- The team analyzed the overall migration process; tested availability, connectivity, and access for all the servers, and source/target databases.
- Created proper Test Cases covering the entire test coverage and Plan and shared this with the client
- Created high volume of data and transactions that was a replica of the Production transactions
- Performed multiple Dry runs to test end to end process
- Migrated the new sites with zero-downtime, with no loss of data and with minimum time lag
- Along with data migration, our engineers worked successfully to convert and integrate all interfaces and applications running on the platform to ensure they worked efficiently on the migrated Oracle database
- We had a proper fall back plan in place to switch back with no data loss
- We automated the migration process which eliminated the manual steps
- Migrated Search engine from IDOL to Oracle Text

RESULTS / BENEFITS

- Successful Migration with zero-downtime
- Minimized the lag at minimalistic level
- Achieve confidence in accuracy of their data migration
- Eliminated human errors and manual process
- Reduced migration cost and the license cost
- Once the migration and conversion processes were completed and tested by the customer, the customer was assured that their new system faced none of the hurdles, delays, data loss
- Princeton Database Engineers have already migrated over 600+ databases using zero-downtime approach and has excellent expertise handling migrations of very large Database Systems.