



## Case Study: Oracle GoldenGate

### About the Company

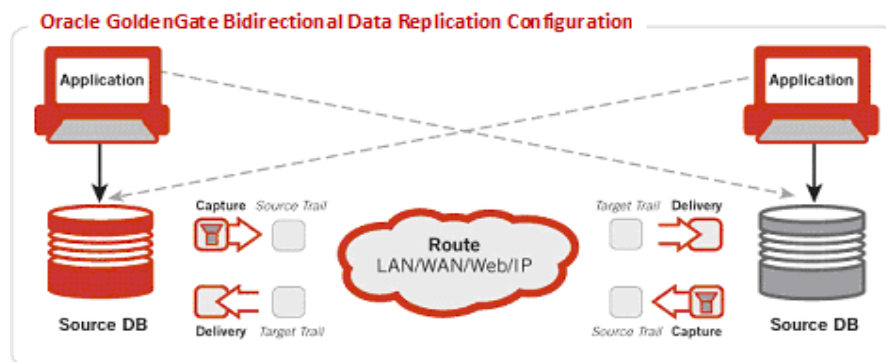
Nihilent is a global consulting and solutions integration company using a holistic and systems approach to problem solving. Headquartered in Pune India, Nihilent's executive team has over 350 person-years of experience in international consulting, IT outsourcing and IT services. We have made major intellectual contributions to the development of IT around the world. Nihilent's operations span North America, Europe, Africa, Middle East and Asia.

### Business Challenges

2 Applications had data stored on 2 different databases (Oracle 10g and SQL Server2005), that were accessed between different users. A subset of data needed to be replicated between both databases for different application users to access the same data. The business challenge was to replicate data between 2 different databases Oracle and SQL Server i.e. heterogeneous bi-directional replication with very low latency as both the application users would need access to real time information.

### Nihilent's Role

Nihilent proposed an approach that would ensure high availability and low data latency by implementing golden gate bi-directional replication(heterogeneous replication). Heterogeneous replication is possible as GoldenGate converts the committed transactions into a universal data format in "trail" files. This approach took care of real time access to real time information. The committed data is transferred between the 2 databases through trail files(i.e. Flat files) using TCP/IP, so even in case of network outages there was no data loss as the trail files held the committed data. Once the network was up, the remaining changes that were not applied were transferred to the target system through trail files and replicated onto the target database.



### Business Benefits Delivered

- High availability.
- Very low data latency with very high transaction throughput.
- No performance degradation for source system.
- Complete data recoverability through trail files.
- Active-Active Data synchronization.