

# Network Data Broker

Network Data Broker is a fast, event-driven data broker with real-time response.

## Speed and Robustness

NDB provides a lightweight but fully functional event driven high speed data cache. It sits between the enterprise database and the application servicing real time events and transactions. By harnessing the speed of this dedicated data broker real time applications can be scaled to very high concentrations of users and transaction volumes.

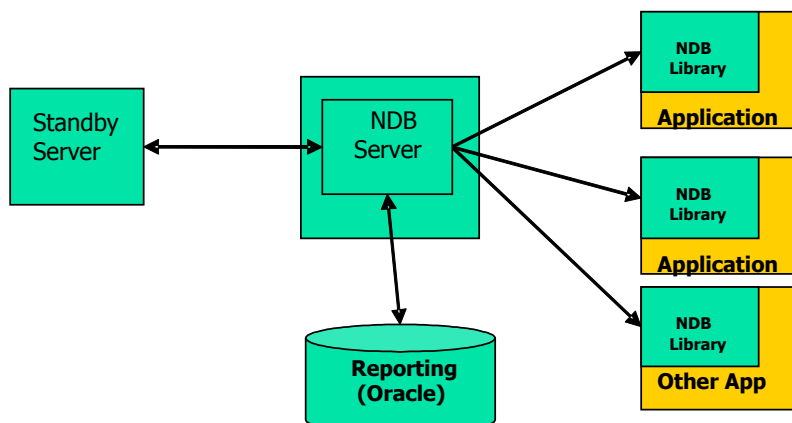
NDB fully supports mirroring of the data cache enabling distributed locations to have their own local cache thereby eliminating the costly transaction overheads associated with network latency when communicating with a centralized server.

## Network Data Broker

The Network Data Broker component has the following features:

- ➔ Real-time sub-second response; thousands of transactions per minute.
- ➔ Fast, event-driven transaction-based data updates.
- ➔ Robust: automatic failover; standby servers will take over from the master server in case of hardware or network failure.
- ➔ Full logging and transaction playback.
- ➔ Multi-threaded concurrent interaction.
- ➔ NDB can be integrated into multiple applications.
- ➔ Flexible; multiple configurations, including caching servers to make the system even faster.
- ➔ Supports C, C++ and Java API.
- ➔ Data can be mirrored to Oracle databases for standard reporting capabilities.

## Architecture



## NDB Is Used In

- ➔ Train control systems.
- ➔ Airline scheduling systems; current day scheduling systems
- ➔ Warehouse inventory systems.
- ➔ Parts and Maintenance systems.
- ➔ Real time high concurrent usage systems
- ➔ Real time high transaction volume systems

## Transparent Data Feed to Enterprise Database

- ➔ NDB supports transparent drip feed to enterprise databases of processed transactions.
- ➔ Standard reporting and analysis packages can then be used to collate and present statistical information without impacting the real time aspects of the system