

METHOD AND APPARATUS FOR BI-DIRECTIONAL COMMUNICATION AND DATA REPLICATION BETWEEN MULTIPLE LOCATIONS DURING INTERMITTENT CONNECTIVITY

ABSTRACT

A method and database server for synchronizing contents of a local database with contents of a remote database. The method includes writing data transactions to a local transaction log file, assigning bin numbers to the data transactions, and determining if the assigned bin numbers have changed due to receipt of subsequent data transactions and if the bin numbers have changed, inserting the subsequent data transactions into a local sequence log file and assigning the subsequent data transactions a first sequence number. The method includes providing, to a remote replicator service, access to the first sequence number, the remote replicator service having access to a second sequence number, and if the first sequence number does not match the second sequence number, providing to the remote replicator service access to the subsequent data transactions, the remote replication service updating a remote database to include the subsequent data transactions.

[Figure 1]