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(54) **Title:** METHOD AND APPARATUS FOR BI-DIRECTIONAL COMMUNICATION AND DATA REPLICATION BETWEEN LOCAL AND REMOTE DATABASES DURING INTERMITTENT CONNECTIVITY

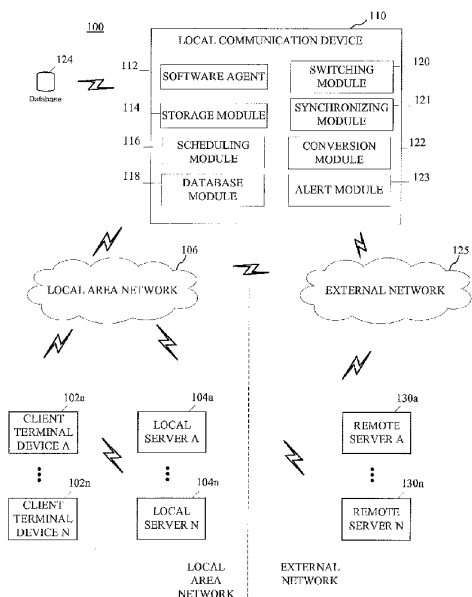


FIGURE 1

(57) **Abstract:** The method includes writing data transactions from a local database to a local transaction log file, assigning a bin number to each data transaction, and determining if the assigned bin number changed due to receipt of subsequent data transactions. If the bin number has changed and the data transaction is applicable to each remote database, inserting subsequent data transactions into a local sequence log file and assigning the subsequent data transactions a first sequence number. In response to a request by a remote replicator service, provide access to the first sequence number, and if the first sequence number does not match a second sequence number, providing to the requesting remote replicator service access to the subsequent data transactions, the remote replication service updating a remote database to include the subsequent data transactions if the at least one data transaction is applicable to each of the at least one remote database.

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