

PART E
SPECIFICATIONS

PART E - SPECIFICATIONS

GENERAL

E1. GENERAL

E1.1 These Specifications shall apply to the Work.

E2. GOODS

E2.1 The Contractor shall supply and delivery of database replication software in accordance with the requirements hereinafter specified.

E2.2 Item No. 1 – shall be software for an Oracle server

E2.3 Item No. 2– shall be software for mobile personal computers.

E2.4 Further to E2.2 and E2.3 the software shall do as a minimum:

- (a) Allow heterogeneous multi-database replication support;
- (b) Allow bi-directional replication between Oracle, MS SQL Server, DB2 and Open source databases;
- (c) Allow multi operating system platform support using MS Windows and Linux;
- (d) Allow symmetric and asymmetric peer-to-peer or fully bidirectional updates;
- (e) Allow automatic and dynamic bandwidth management of the network connection;
- (f) Have data encrypted and compressed in the transfer process;
- (g) Meet Triple-DES security standard;
- (h) Allow replication by complete database, logical data relationships or application specified grouping of data;
- (i) Have highly configurable collision detection and automated collision correction;
- (j) Support an application specific collision avoidance configuration;
- (k) Not rely on e-mail or ftp to provide for data transfers;
- (l) Not allow data replication transfer instructions to be stored in original data schema. Must be stored in its own schema leaving the data schemas undisturbed;
- (m) Allow all data types to be transferred, such as BLOBs, CLOBs or Spatial data;
- (n) Support transparent fail-over and fail-back;
- (o) Support zero code change replication in a master to slave configuration;
- (p) Support an occasionally connected server or used in a mobile workforce environment;
- (q) Support concurrent replication in a many-to-many or many-to-one configuration; and
- (r) Not limit the existing application to use a proprietary method to access the database;

E2.5 Highly desirable requirements for the software:

- (a) Will only replicate changes made since the last replication;
- (b) Allow flexible replication network configuration. Transfer is allowed through multiple network access points;
- (c) Allows data synchronization using a table-based method; and

- (d) Allows data transfers to be highly configurable to allow individual or need-to-know transfers.

E2.6 Should allow requirements for the software:

- (a) Automatic re-direction and restoration of data transfer in case of network failure;
- (b) Single copy of the data propagation; and
- (c) Allow more than one user to update a record or part of the same record.

E3. DELIVERY

E3.1 Goods shall be delivered F.O.B. destination; freight prepaid within thirty (30) Business Days of the placing of an order, except where otherwise agreed at the time of ordering.

E3.2 Goods shall be delivered between 8:30 a.m. and 4:30 p.m. on Business Days.