Interbase Replication Suite Examples

Editor:

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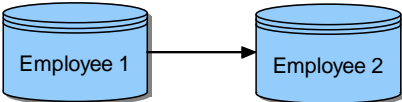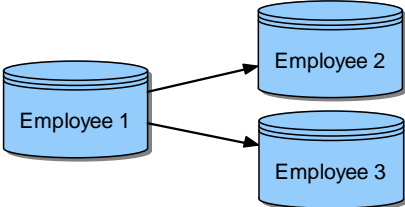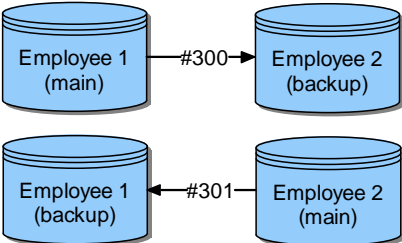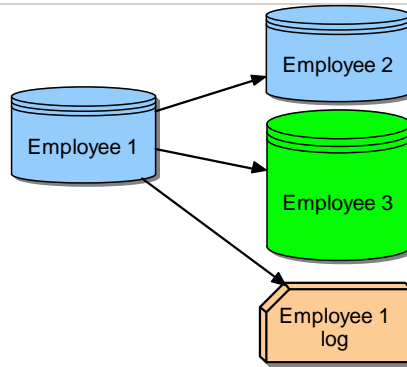
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Version 1.0   First release

Interbase Replication Suite Examples	**schema id**
One-way replication	#100

The simplest task – replication *Employee1* to *Employee2* database.

One-way replication 1 to N	#200

Replication to two identical databases, databases are placed in one group to save resources, changes are logger only once.

Switch able one-way replication	#30x

This simulates two identical databases, first database is active and all data are replicated to "*backup*" database. When main database crashes, backup database is activated and becomes "*main*" database. When database is repaired, all data are replicated back to the first database.

One-way to different databases	#400

Replicates source database to two different databases, i.e. partial replica. Only selected tables are replicated to *Employee3*. The third database demonstrates export to SQL log.
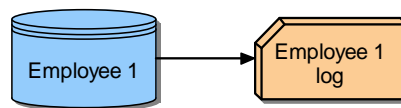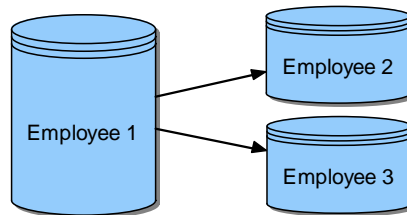
Incremental backup	#500

Changes are replicated to SQL log as sequence of SQL commands (*INSERT, UPDATE, DELETE*).

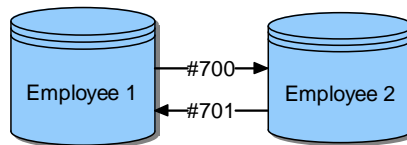| Conditional replication to 2 databases	#600

One-way replication to two databases of the same structure, there are defined condition not to replicate all data (row select). So target databases can see only own data.

Bidirectional replication	#70x

Similar as "Switch able one-way" but because it is bidirectional replication conflict checking is defined. It resolves equivalent records at both sides and checks. If record has been changed, *Employee 1* record has higher priority. *Extended conflict check* feature must be activated in *Replication server*.
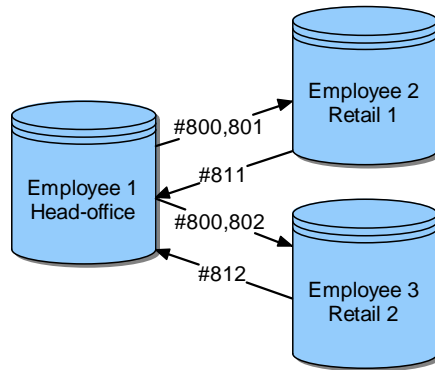

Bidirectional n-way replication	#8xx

The most complex example, there is one *Head-office* and multiple *Retail-offices. Head-office* is responsible for data definition (list of countries, currencies, etc.). *Retailers* manage data of own projects. Data are replicated to main office and back to other retailers. *Extended conflict checking* feature must be activated in *Replication server*.
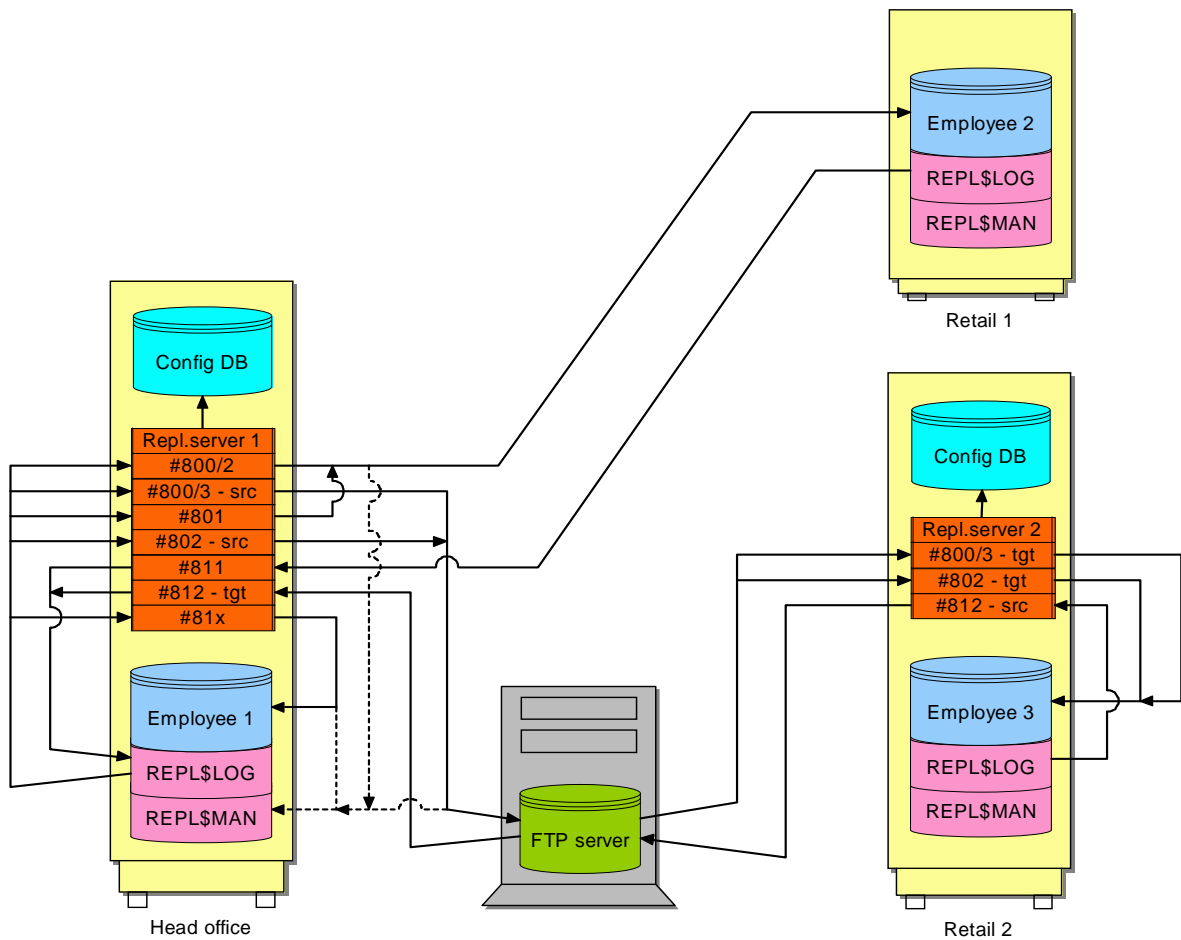
Scheme *#800* replicates data defined in *Head-office*. Scheme *#801* (*#802*) replicates changes made by *Retail 2* (*Retail 1*) and *Head-office*. Scheme *#811* (*#812*) replicates changes made by *Retail 1* (*Retail 2*) to *Head-office*. *Retailers* cannot change data in tables managed by *Head-*

office.

Replication project is managed by two replication servers in 11 tasks.

Record history	#900

Scheme manages recording of changes made in source database. Changes are logged in source database REPL$HISTORY table.