

Claims

1. A remote data synchronization method for a database, wherein the database is used for storing data of a sending-end service application, the method comprising:

obtaining, by the sending-end service application, service data updated in a data update event;

generating, by the sending-end service application, an event version corresponding to the data update event;

generating, by the sending-end service application, an event object that comprises the service data and the event version; and

transmitting, by the sending-end service application, the event object to a peer-end service application, so that when the peer-end service application determines according to the event version that the data update event is valid, a peer-end database is updated according to the service data.

2. The remote data synchronization method according to claim 1, wherein the event object further comprises a service main key, the service main key being used for distinguishing different service data.

3. The remote data synchronization method according to claim 1, wherein the method further comprises, after generating the event object, recording the event object wherein recorded event objects are used, upon receipt of the event object received from the sending-end service application, to extract information regarding event versions from the recorded event object in order to determine event validity.

4. A remote data synchronization method for a database, wherein the database is used for storing data of a peer-end service application; the method comprising:

receiving, at the peer-end service application, an event object sent by a sending-end service application, wherein the event object comprises service data updated in a data update event, and an event version corresponding to the data update event; and

updating, by the peer-end service application, the database according to the service data updated in the data update event when determining according to the event version that the data update event is valid.

5. The remote data synchronization method according to claim 4, wherein determining according to the event version that the data update event is valid comprises:

determining according to the event version that the data update event chronologically occurs after a locally-recorded data update event.

6. The remote data synchronization method according to claim 5, wherein determining according to the event version that the data update event chronologically occurs after a locally-recorded data update event comprises:

obtaining, according to a service main key comprised in the event object, an event version of the locally-recorded data update event corresponding to the service main key, the service main key being used for distinguishing different service data;

comparing the local event version with the event version of the data update event; and determining that the data update event chronologically occurs after the locally-recorded data update event.

7. The remote data synchronization method according to claim 4, wherein the method, after determining according to the event version that the data update event is valid, further comprises: recording the event object, wherein recorded event objects are used, upon receipt of the event object received from the sending-end service application, to extract information regarding event versions from the recorded event object in order to determine event validity.

8. A remote data synchronization apparatus for a database, wherein the database is used for storing data of a sending-end service application; the apparatus comprising:

an event encapsulating module configured to:

obtain service data updated in a data update event,

generate an event version corresponding to the data update event; and

generate an event object comprising the service data and the event version;

and

an event sending module configured to transmit the event object to a peer-end service application, so that when the peer-end service application determines according to the event version that the data update event is valid, a peer-end database

is updated according to the service data.

9. The remote data synchronization apparatus according to claim 8, wherein the event object further comprises a service main key, wherein the service main key is used for distinguishing different service data.

10. A remote data synchronization apparatus for a database, wherein the database is used for storing data of a peer-end service application; the apparatus comprising:

an event receiving module configured to receive an event object sent by a sending-end service application, the event object comprising service data updated in a data update event, and an event version corresponding to the data update event; and

a data update module configured to update the database according to the service data updated in the data update event, when it is determined according to the event version that the data update event is valid.

11. The remote data synchronization apparatus according to claim 10, wherein the data update module comprises:

a record acquisition unit configured to acquire, according to a service main key comprised in the event object, an event version of a locally-recorded data update event corresponding to the service main key, the service main key being used for distinguishing different service data; and

an event judgment unit configured to compare the local event version with the event version of the data update event, and determine that the data update event chronologically occurs after the locally-recorded data update event.

12. The remote data synchronization apparatus according to claim 10, wherein the apparatus further comprises:

an event recording module configured to record the event object after it is determined according to the event version that the data update event is valid or after the service data and the event version are encapsulated into the event object.