Database Sync Incremental

SecureSuite will maintain a database clone on a second Android device running SecureSuite. There are two sync capabilities, incremental and full.

The incremental sync is event driven based on user activity. When a user modifies the database, an event window is opened. At the end of the event window the updates are pushed to the companion device.

User edits database
1. Database element saved
2. Timer started

More database edits
1. Database elements saved

if size > threshold
  Expire timer

Timer expires
If size small enough (< 1MB)
  package and send all edits
else
  package and send
partial edits
  Iterate until complete

Source

Create manifest

contact_inserts
contact_updates
contact_deletes
group_deletes
cryp_sync

No
Request data

Empty?

Yes

Given manifest
package & send data
Limit size

No
Request data

Empty?

Yes

Given manifest
package & send data
Limit size

Cleanup
  Done

Target

Inspect manifest
Process deletes
Update manifest

Inspect manifest
Process inserts
Process updates
Process cryp_sync
Update manifest

Cleanup
Notify source done