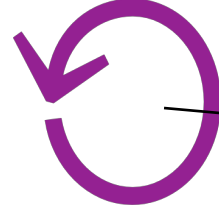




Cloud Refresh



When the cloud\_c\_id is different than the contact\_id, the contact\_id has been remapped.

Prior to refreshing contacts from the cloud, build a remap hash table by iterating through the ACCOUNT\_TABLE and adding contacts where the cloud\_c\_id is not equal to the contact\_id.

Google Cloud	ACCOUNT_TABLE
ACCOUNT_NAME	account_name
ACCOUNT_TYPE	account_type
STARRED	starred
DISPLAY_NAME_PRIMARY	display_name
DISPLAY_NAME_SOURCE	display_name_source
VERSION	version
contact_id	cloud_c_id
	contact_id

```
/**<pre>
 * contact_id = testIdTestVersion( account, cloud_c_id, cloud_version)
 * Return 0: cloud_c_id is current version, no update required
 * Return >0: cloud_c_id does not exists or is newer, update required
 * Return Long.MIN_VALUE, cloud_c_id is older than local version, no update required
 *
 * Assumes setupImport() is called prior to calling this method.
 *
 * 1. Search cloud_c_id in field cloud_c_id, get contact_id, loc_version, loc_account
 *
 * 2. count == 0
 * a. The loc_contact_id does not exist
 * a. loc_contact_id is clear
 * a. No contact_id collision, no remapping required
 * a. import this contact
 * a. return cloud_c_id (== cloud_id)
 *
 * 3. count > 0,
 * a. && no account match
 * a. cloud_c_id for this account is not in local database
 * a. there is a contact_id collision, remapping is required
 * a. import this contact
 * a. return next open new_contact_id
 *
 * 4. count > 0
 * b. && account match
 * b. cloud_c_id for this account is in local database
 * b. We don't know if contact_id is remapped
 *
 * b.1. cloud_version > loc_version
 * b.1. cloud version is newer
 * b.1. import this contact
 * b.1. if remapped, remapped value is in contact_id
 * b.1. return contact_id
 *
 * b.2. cloud_version = local_version
 * b.2. cloud version is the same
 * b.2. do not import this contact
 * b.2. return 0 (it exists, same version)
 *
 * b.3. cloud_version < local_version
 * b.3. The local version is newer than the cloud version
 * b.3. do not import this contact
 * b.3. return Long.MIN_VALUE
 *
 * Test data:
 * account  cloud_c_id  contact_id  loc_ver  _id
 * jack    1          1          1        1
 * grandma 1          1001         1        2
 * jack    2          2           1        3
 * jack    3          3           2        4
 * grandma 3          1002         2        4
 *
 * Test cases:
 * account  cloud_c_id  cloud_ver  result
 * jack    1          1          _id 1, b.2, return 0
 * jack    2          2          _id 3, b.1, return 2
 * grandma 1          1          _id 2, b.2, return 0
 * grandma 1          2          _id 2, b.1, return 1001
 * grandma 3          1          _id 4, b.3, return Long.MIN_VALUE
 * grandma 2          1          _id x, a., return 1003 (next open id)
 *</pre>
 */
```