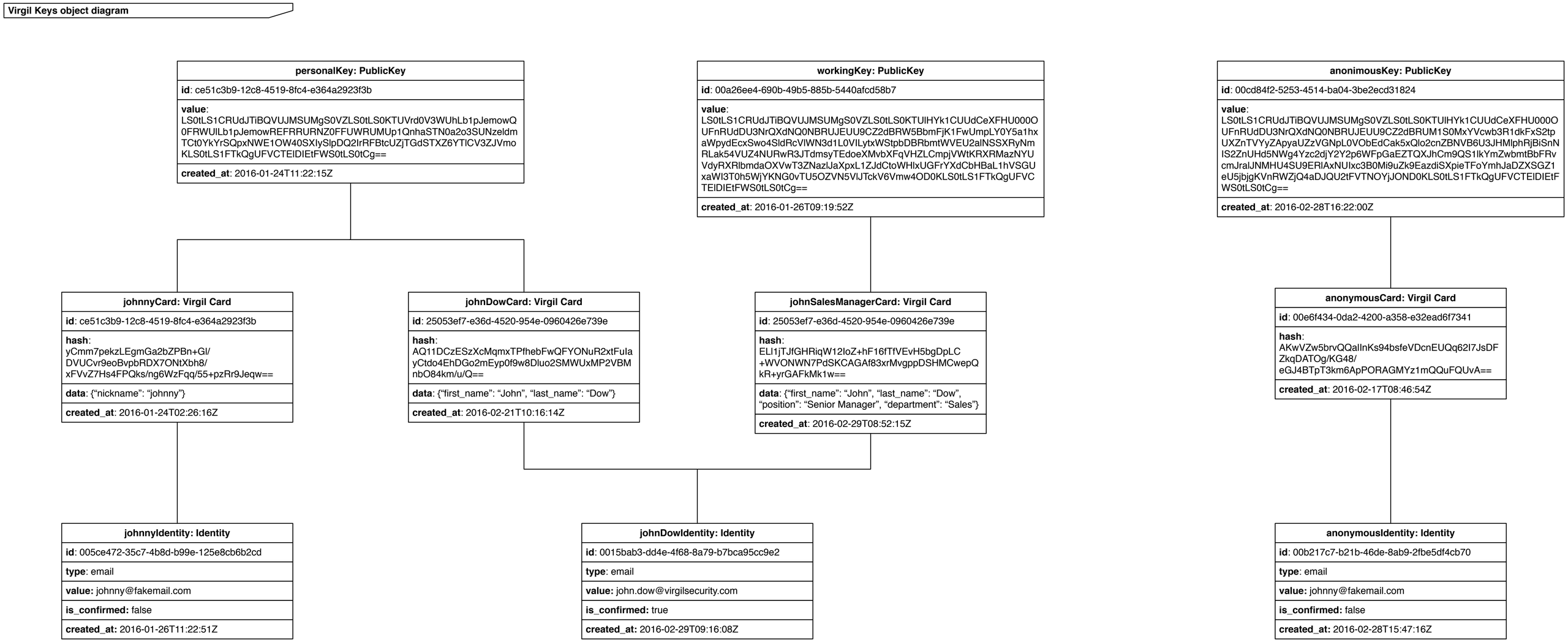

Legend

This diagram represents all possible relations between basic Virgil Keys service entities.

This scenario represents a case when a user has 3 key pairs. A *personalKey* is used for operations in social networks and personal communication, a *workingKey* is used for working purposes and an *anonimousKey* is used for some private communication on some anonymised forums. The *personalKey* is used for both a *johnnyCard* account that is used for Twitter messaging and a *johnDowCard* that is used for informal email communications. The workingKey is associated with the *johnSalesManagerCard* that is used for working communication. The anonimousKey is used for *anonymousCard* account on some forum that doesn’t require proving of an *Identity*.

anonymousKey —> anonymousCard —> anonymousIdentity chain. This is the simplest case when a *Virgil Card* which is represented with *anonymousCard* object is associated with one standalone *Public Key* instance (*an anonymousKey*) and one standalone anonymous *Identity* (*anonymousIdentity*). The *anonymousCard* and *anonymousIdentity* are unconfirmed because the *anonymousIdentity* was not confirmed when the *anonymousCard* was created. The *anonymousIdentity* has the value of *johnny@fakemail.com* and is standalone just like a *johnnyIdentity* that has the same value, because it was not confirmed. So only confirmed *Identities* are shared between *Virgil Cards* like *johnDowIdentity* does.

workingKey —> johnSalesManagerCard —> johnDowIdentity chain. in this scenario a *johnDowIdentity* identity is not standalone but is shared between a *johnDowCard* and a *johnSalesManagerCard* because it both of these Virgil Cards had beed confirmed during *Virgil Card* creation process. This action is performed in order to group all the user’s cards inside of a container like account to make it possible to retrieve all the *Virgil Cards* registered for some *Identity*.

socialMediaKey —> johnnyCard —> johnnyIdentity chain. In this scenario a user shares a socialMediaKey between a *johnnyCard* and a *johnDowCard***.** This is possible when a *public_key_id* request parameter is passed instead of *public_key* one during a *VirgilCard* creation process. This can be used not to create a bunch of user’s key pairs but to share some of them between different accounts.