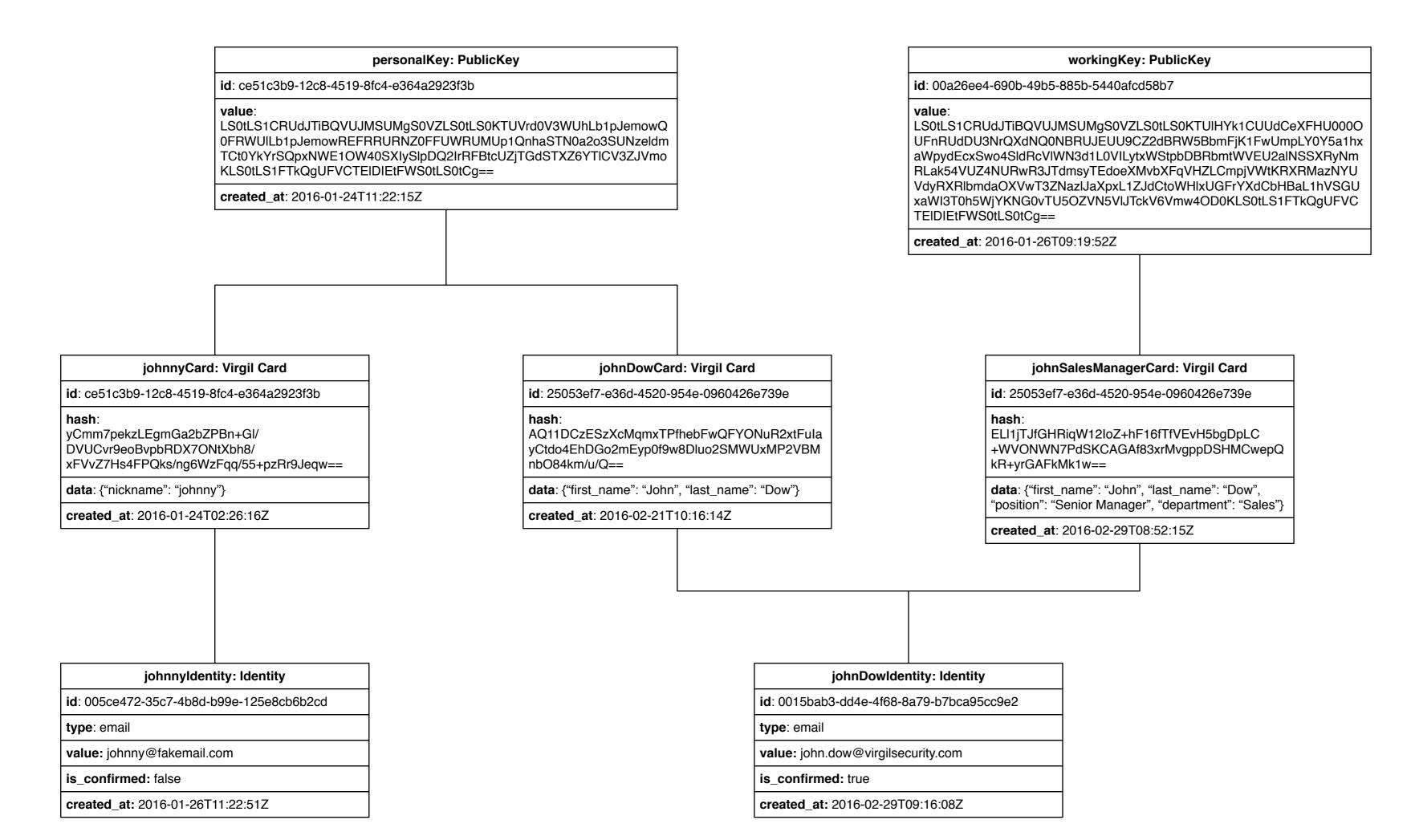
Virgil Keys object diagram



# 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 —> johnDowldentity chain. in this scenario a johnDowldentity 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.

## anonimousKey: PublicKey

id: 00cd84f2-5253-4514-ba04-3be2ecd31824

#### value:

LS0tLS1CRUdJTiBQVUJMSUMgS0VZLS0tLS0KTUIHYk1CUUdCeXFHU0000 UFnRUdDU3NrQXdNQ0NBRUJEUU9CZ2dBRUM1S0MxYVcwb3R1dkFxS2tp UXZnTVYyZApyaUZzVGNpL0VObEdCak5xQlo2cnZBNVB6U3JHMlphRjBiSnN IS2ZnUHd5NWg4Yzc2djY2Y2p6WFpGaEZTQXJhCm9QS1lkYmZwbmtBbFRv cmJralJNMHU4SU9ERIAxNUIxc3B0Mi9uZk9EazdiSXpieTFoYmhJaDZXSGZ1 eU5jbjgKVnRWZjQ4aDJQU2tFVTNOYjJOND0KLS0tLS1FTkQgUFVCTEIDIEtF WS0tLS0tCg==

created\_at: 2016-02-28T16:22:00Z

## anonymousCard: Virgil Card

id: 00e6f434-0da2-4200-a358-e32ead6f7341

#### | hash:

AKwVZw5brvQQallnKs94bsfeVDcnEUQq62l7JsDF ZkqDATOg/KG48/

eGJ4BTpT3km6ApPORAGMYz1mQQuFQUvA ==

created\_at: 2016-02-17T08:46:54Z

## anonymousIdentity: Identity

id: 00b217c7-b21b-46de-8ab9-2fbe5df4cb70

type: email

value: johnny@fakemail.com

is\_confirmed: false

created\_at: 2016-02-28T15:47:16Z