

SelfKey Foundation's CrowdSale Contract owns the **SelfKey Token** contract



**SelfKey Token**

The **SelfKey Foundation's** wallet creates **Escrow** contracts and adds and removes **Service Providers'** addresses from the **Escrow's** whitelist.

**SKF Wallet**

An **Identity Owner** is a party that wishes access to a service provided by a Service Provider. They will deposit some **KEY** into a **Timelocked Escrow**.

**Identity Owner Wallet**

The **Escrow** holds **KEY** deposited by the **Identity Owner** that can not be transferred to any address that is not in the **Escrow's** whitelist until the timelock has expired. It is owned by SKF.



**Timelocked Escrow Contract**

A **Service Provider** is a party, whitelisted by an **Escrow**, that wishes to provide a service to an **Identity Owner** who has deposited funds into that **Escrow**.

**Service Provider Wallet**

The **SKF's** wallet *creates* an **Escrow** to represent a marketplace.

new TimelockedEscrow(timeLimit)

EscrowCreated(escrowAddress, timeLimit)

The **SKF's** wallet *whitelists* a **Service Provider**

whitelist(serviceProviderAddress)

ServiceProviderWhitelisted(serviceProviderAddress)

The **SKF's** wallet *unwhitelists* a **Service Provider**

unwhitelist(serviceProviderAddress)

ServiceProviderUnwhitelisted(serviceProviderAddress)

**Legend**

- Wallet to Contract function call
- Inter-Contract function call
- Transfer of KEY
- Event emitted by contract

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**Service Provider Wallet**

The **Identity Owner's** wallet checks an address to see if it's been whitelisted.

← *isWhitelisted(address) returns bool* →

Legend

○ →

Wallet to Contract function call

○ →

Inter-Contract function call

○ →

Transfer of KEY

◀

Event emitted by contract

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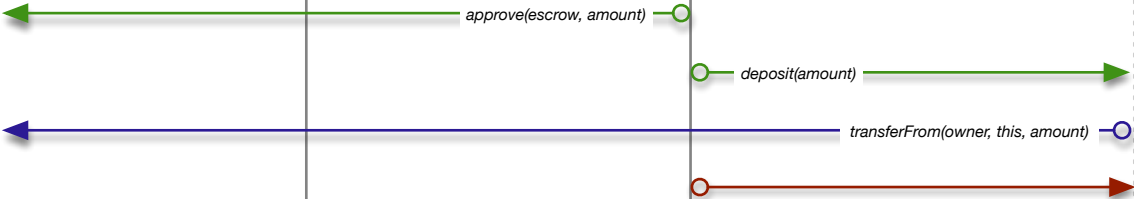


**Timelocked Escrow Contract**

**Service Provider Wallet**

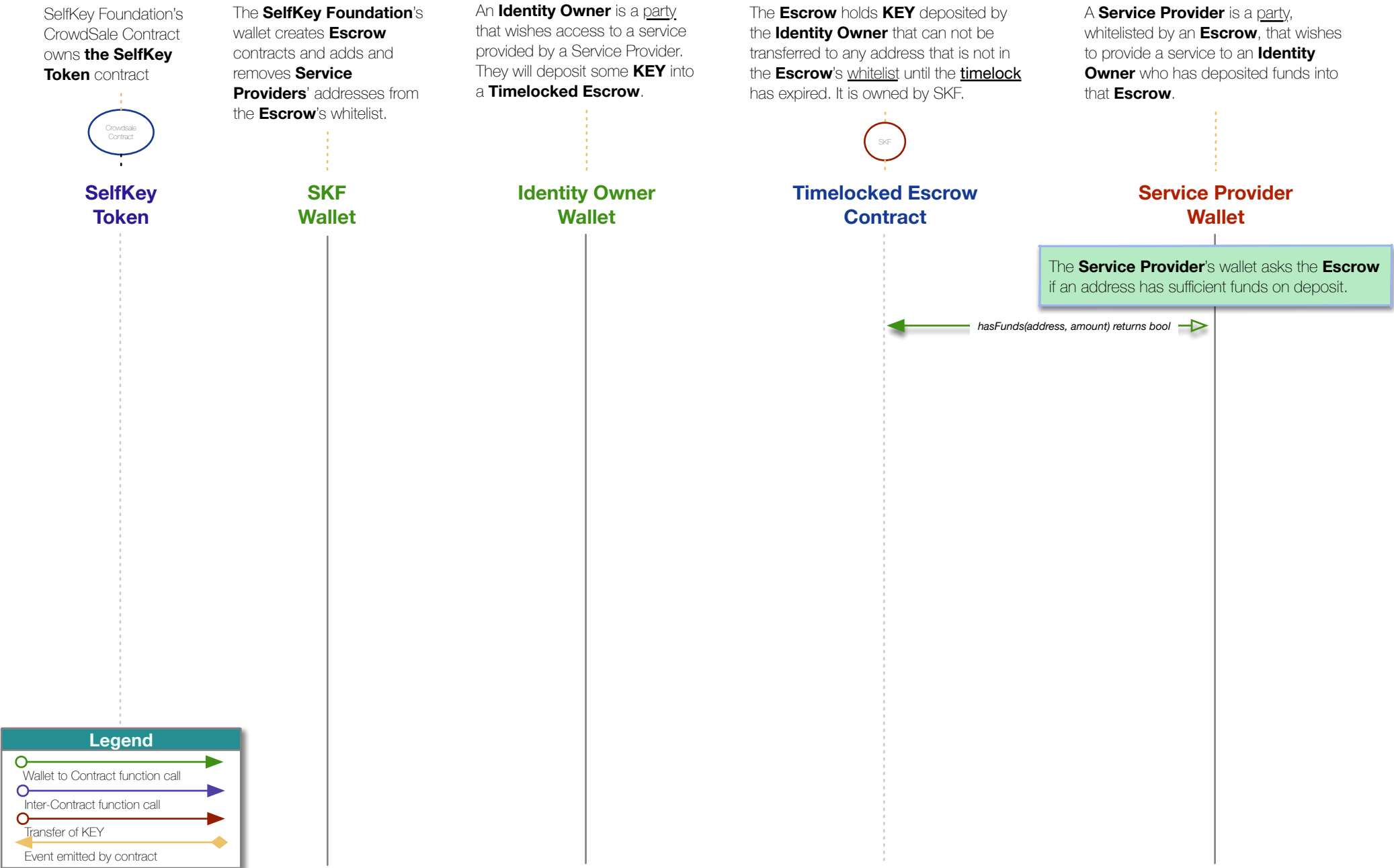
A **Service Provider** is a party, whitelisted by an **Escrow**, that wishes to provide a service to an **Identity Owner** who has deposited funds into that **Escrow**.

The **Identity Owner's** wallet *approves* the **Escrow** to transfer an amount of **KEY** from the owner to itself.



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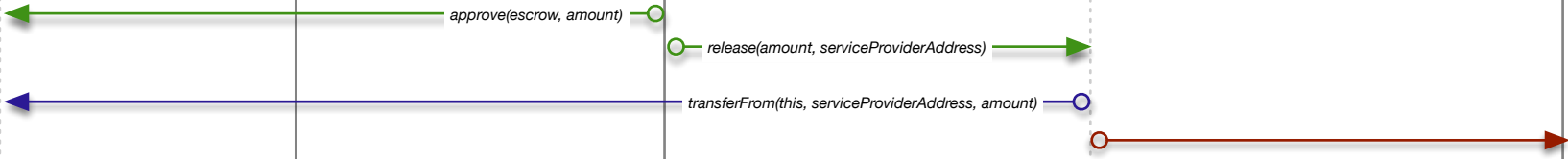


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**Service Provider Wallet**

The **Identity Owner's** wallet approves the **Escrow** to transfer funds to the **Service Provider's** address



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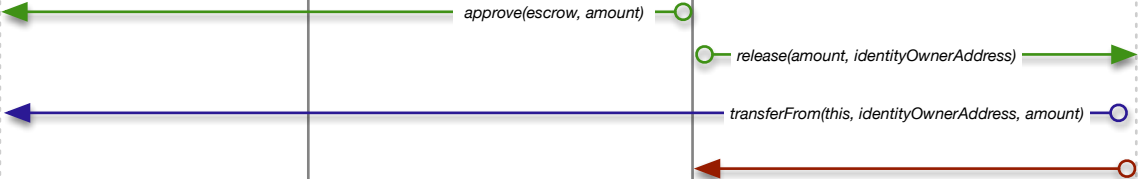


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