

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.

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.



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



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



Legend

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

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SelfKey
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Timelocked Escrow
Contract

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

isWhitelisted(address) returns bool

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Identity Owner Wallet

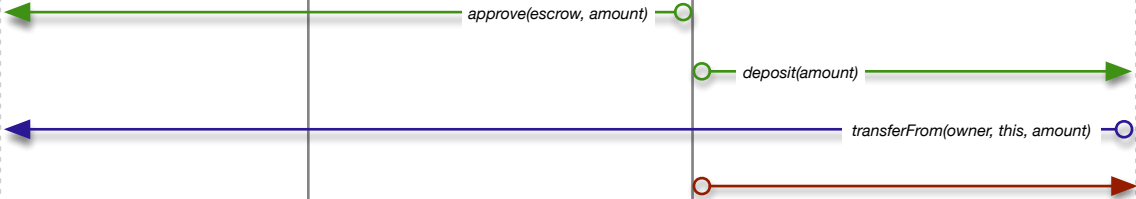
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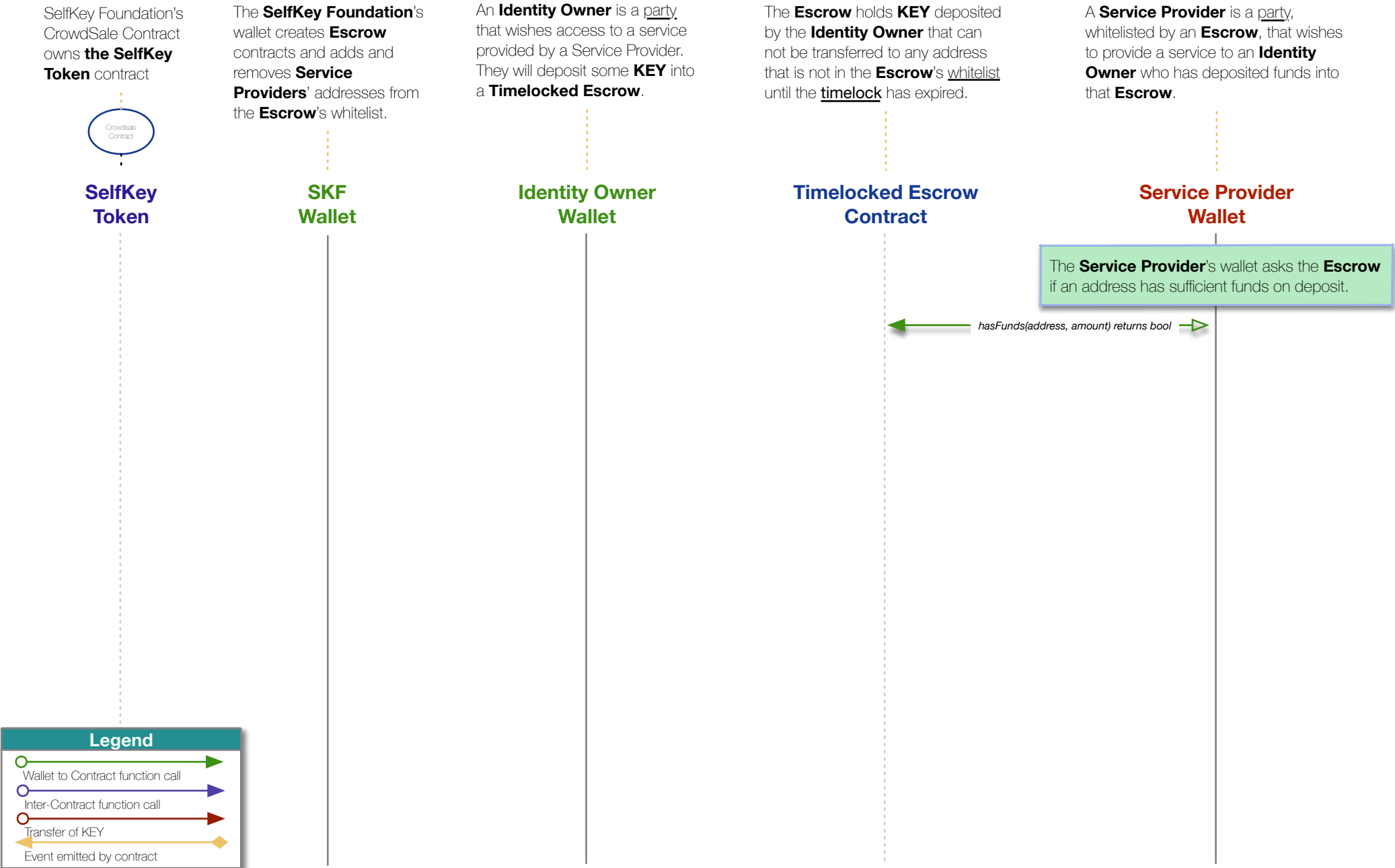
Service Provider Wallet

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



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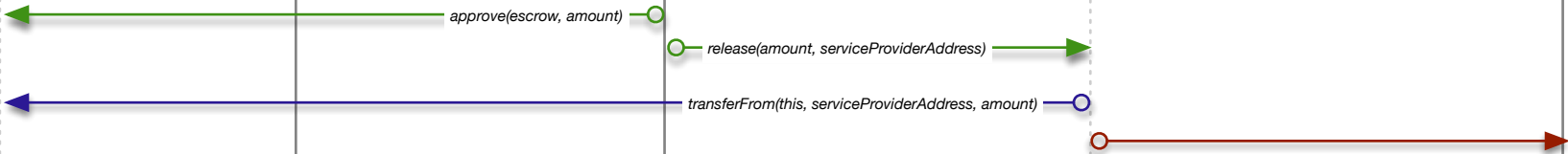
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Service Provider Wallet

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



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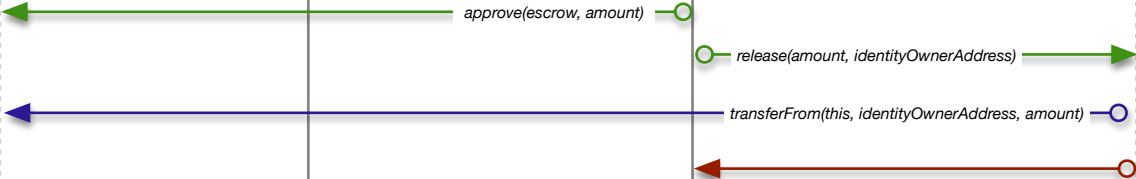
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Service Provider Wallet

The **Identity Owner's** wallet *approves* the **Escrow** to transfer funds to itself



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