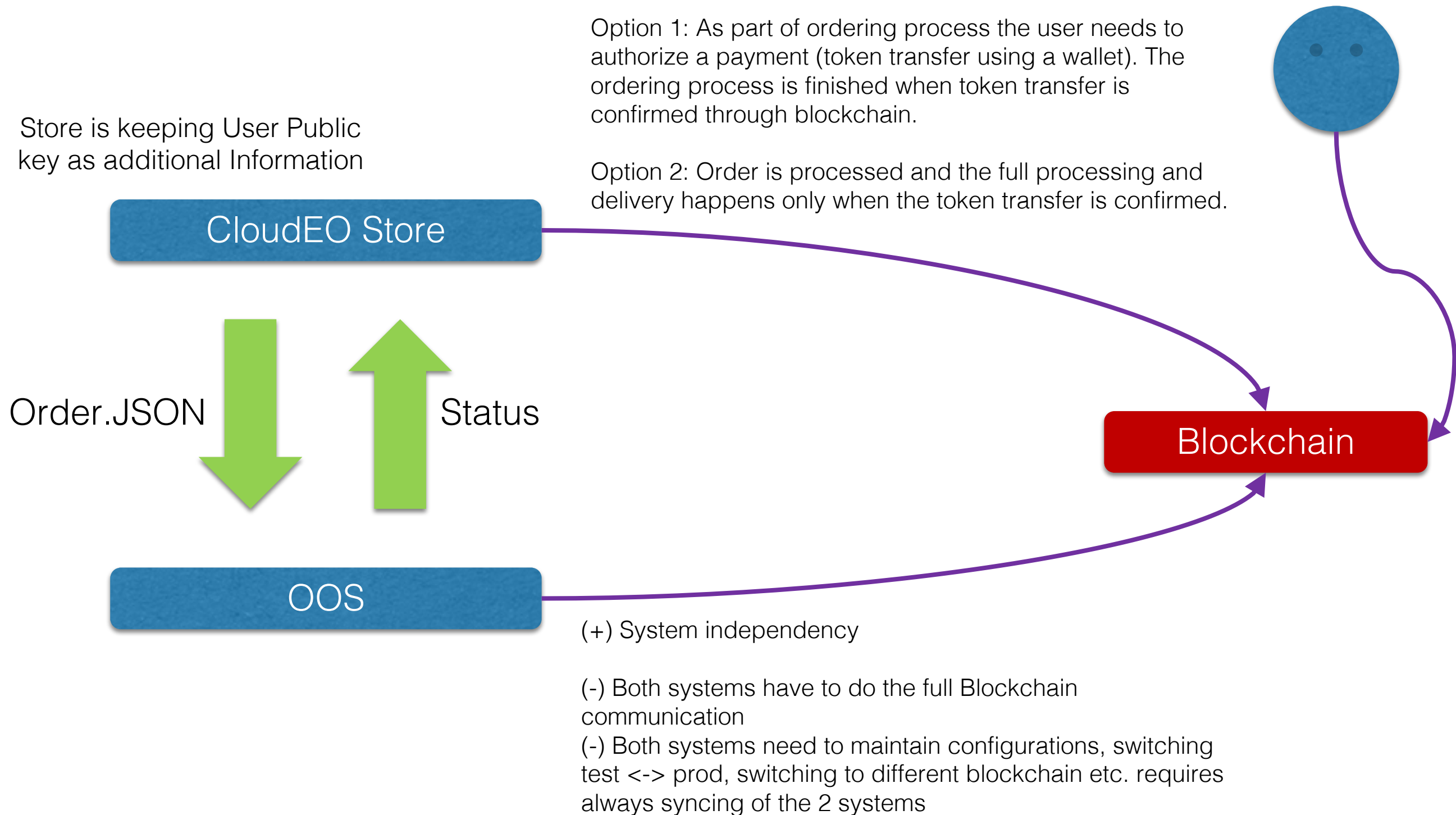# Architecture / CBN modules

- **How to design the modules to optimally streamline the communication**

- **Keeping all CBN related configuration at one place**

- **Ensuring consistency of the communication store <-> Blockchain, OOS <-> Blockchain, other systems <-> Blockchain**

- **Level of effort needed for implementation**

Option 1: Architecture / CBN modules

Option 1: As part of ordering process the user needs to authorize a payment (token transfer using a wallet). The ordering process is finished when token transfer is confirmed through blockchain.

Option 2: Order is processed and the full processing and delivery happens only when the token transfer is confirmed.

Store is keeping User Public key as additional Information

CloudEO Store

Order.JSON   Status

OOS

Blockchain

(+) System independency

(-) Both systems have to do the full Blockchain communication
(-) Both systems need to maintain configurations, switching test <-> prod, switching to different blockchain etc. requires always syncing of the 2 systems

Option 2: Architecture / CBN modules

erteco
technologies

Store is keeping User Public
key as additional Information

Option 1: As part of ordering process the user needs to authorize a payment (token transfer using a wallet). The ordering process is finished when token transfer is confirmed through blockchain.

Option 2: Order is processed and the full processing and delivery happens only when the token transfer is confirmed.

CloudEO Store

Order.JSON   Status

OOS

CBN Gateway

Blockchain

(+) CBN configuration stored onceü, switching from Test to Production, to different Blockchain etc. is done at one location (the CBN Gateway)
(+) any changes in connection to blockchain done only once
(+) CBN Gateway API can be leaner and therefore easier to use from the other systems

(-) Additional API