



Datacoin issuance, purchase, and revenue sharing



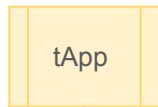
May 2019

App creates data

Datacoin issued (1 datacoin for 1MB)

Datacoins in circulation

0
Initial state

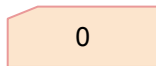


creates data

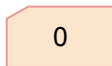


When data is created
datacoins are issued

results in 100
datacoins
created



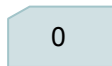
w/ Contract
Address



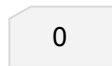
w/
dWorkers



w/
developers



w/ data
creators



w/ data
buyers



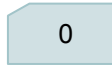
Total



All balances are 0 initially



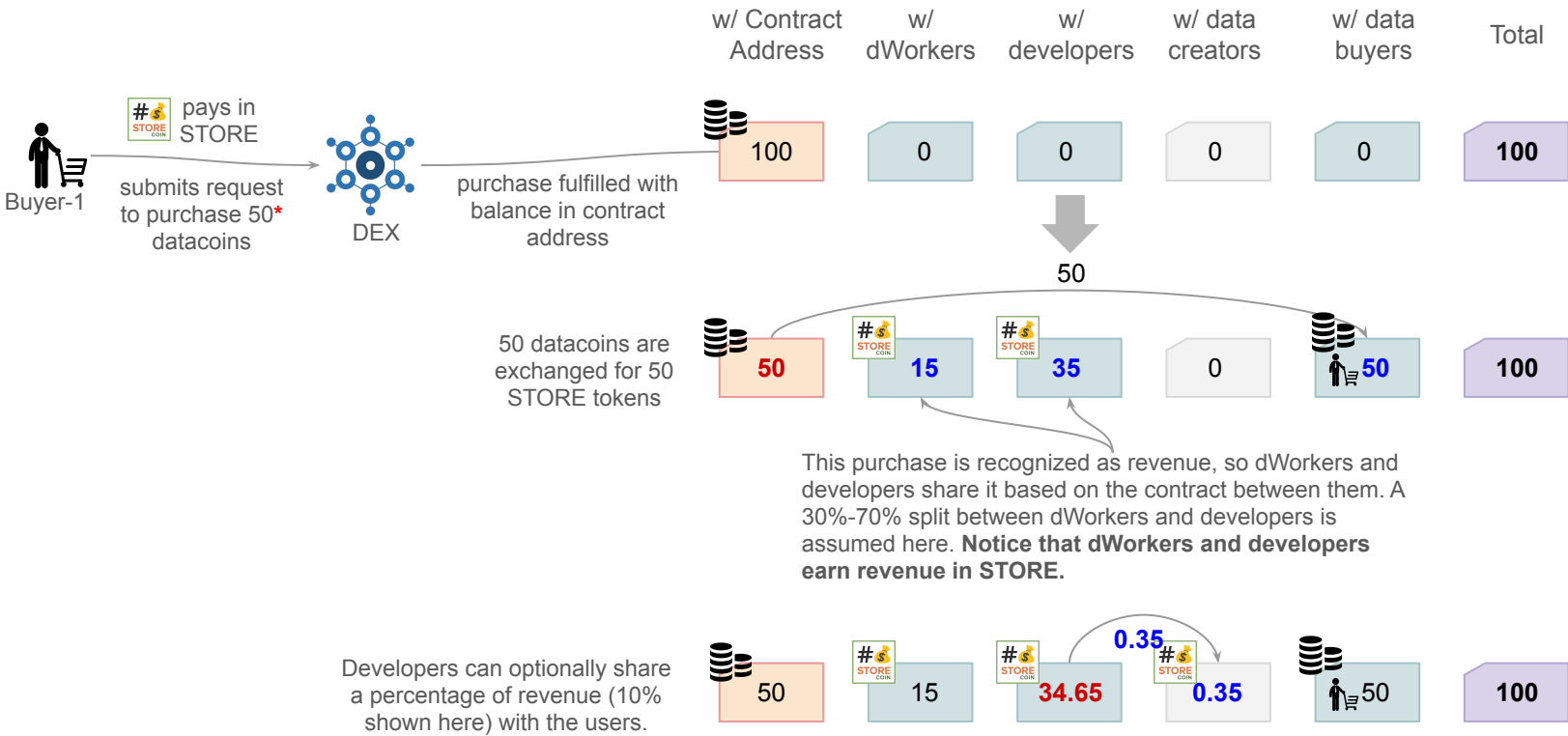
deposited to the
contract address



The deposited datacoins are not owned by developers
or dWorkers. They are not recognized as revenue yet.

Datacoins in circulation

2



* For simplicity we assume an exchange rate of 1 datacoin = 1 STORE.
** An exchange is shown here for illustration only. It can be an exchange, DEX, or simply in-protocol transfer via Storecoin Connect.

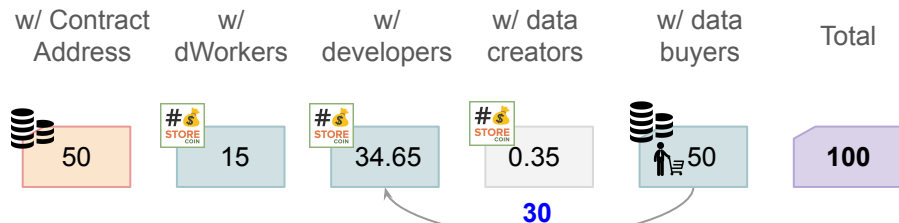


3a



Buyer-1 searches for the data, which costs, say, 30 datacoins.

Datacoins in circulation

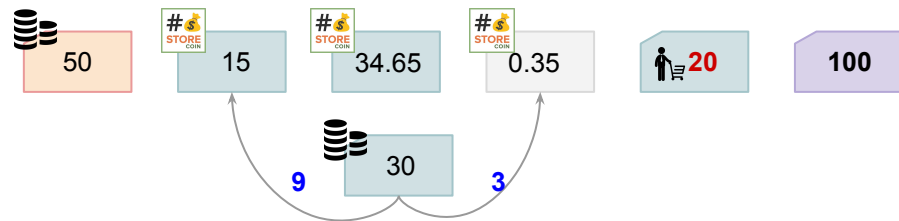


30 datacoins are sent to the developer address.

Developer now has 34.65 STORE and 30 datacoins.



Developer shares the datacoin revenue with dWorkers (30%-70%) and optionally with users.

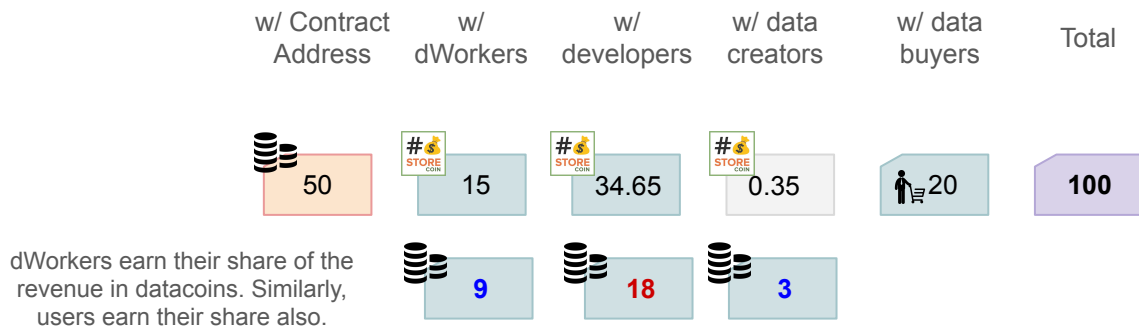


3b



Buyer-1 purchases data with the datacoins.

Datacoins in circulation

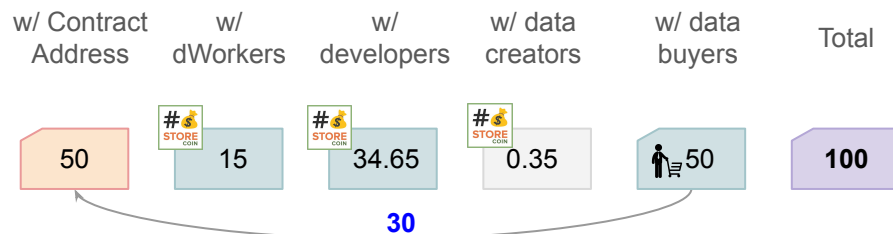


3a

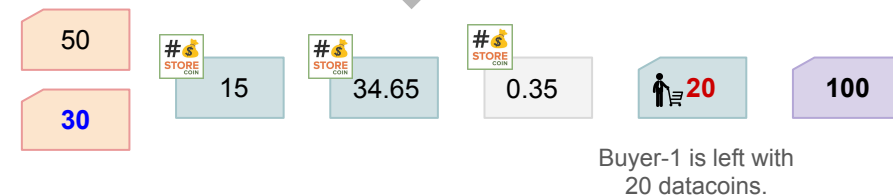


Buyer-1 decides to purchase data worth 30 datacoins and buyer-1 wants **exclusive access** to the data purchased.

Datacoins in circulation

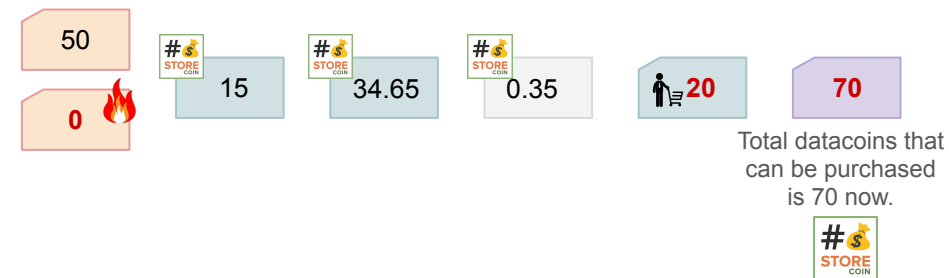


Contract address now has 80 datacoins although only 50 can be purchased.



After buyer-1 retrieves data, 30 datacoins held in the contract address are burned.

Since exclusive access is requested, the data retrieved by buyer-1 is deleted from the app, so it cannot be discovered by any other buyer.

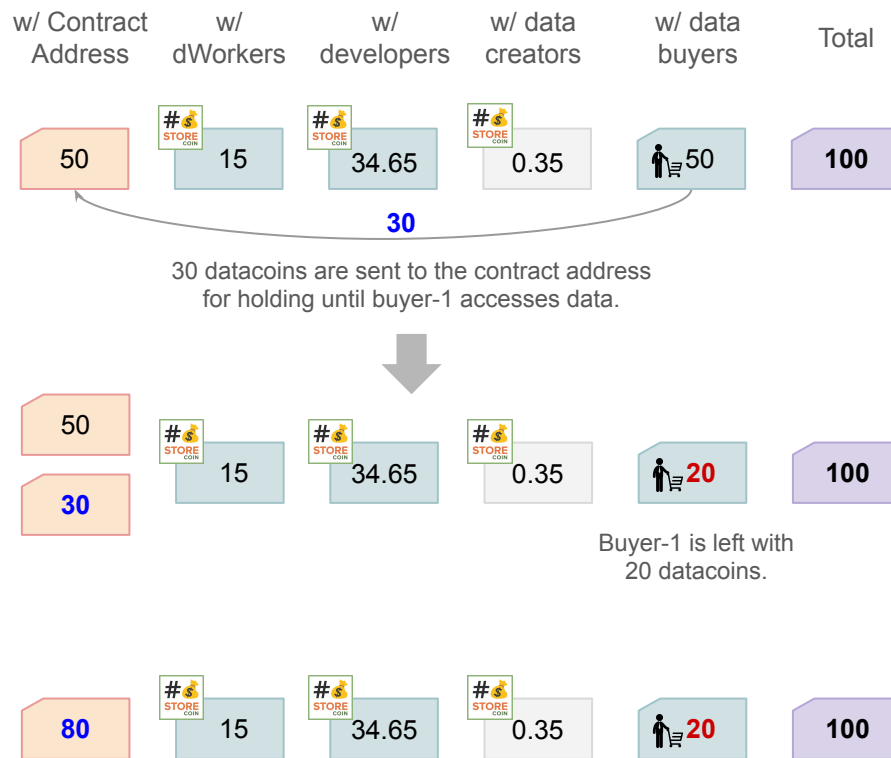


3b



Buyer-1 decides to purchase data worth 30 datacoins and buyer-1 wants **shared access** to the data purchased. This means, the same data can be sold to multiple buyers.

Datacoins in circulation



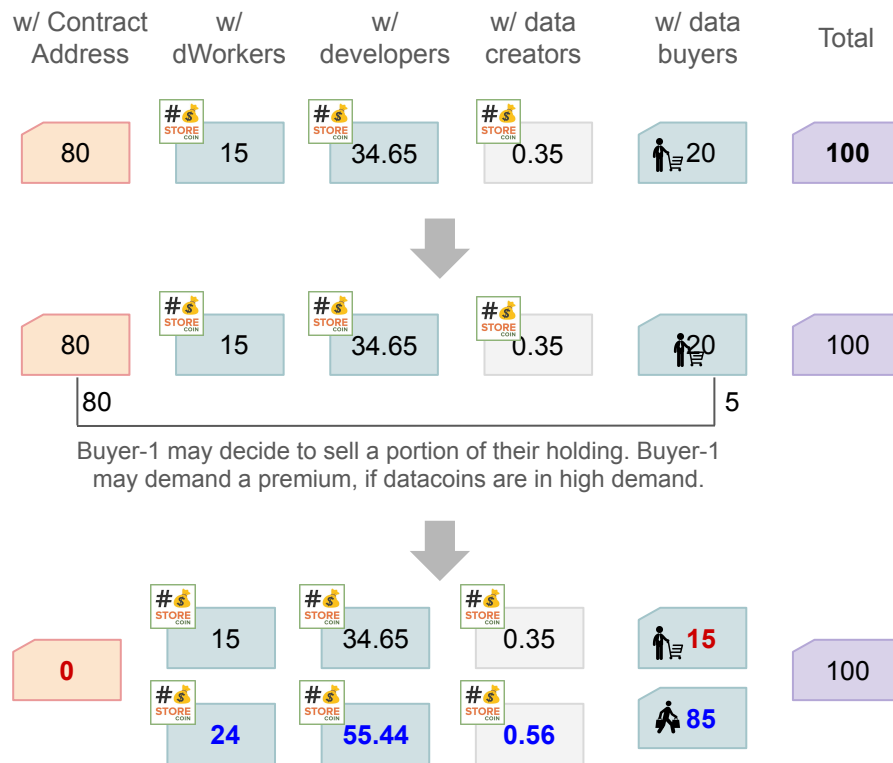
If datacoins are used for exclusive purchase, they are burned. Otherwise, they are recirculated.

4



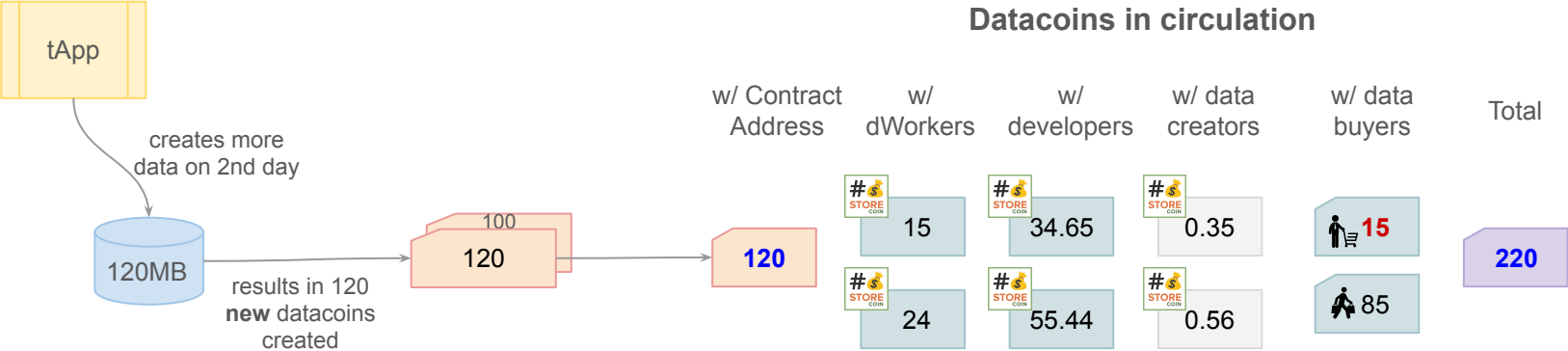
! No sufficient balance in the contract address

Datacoins in circulation

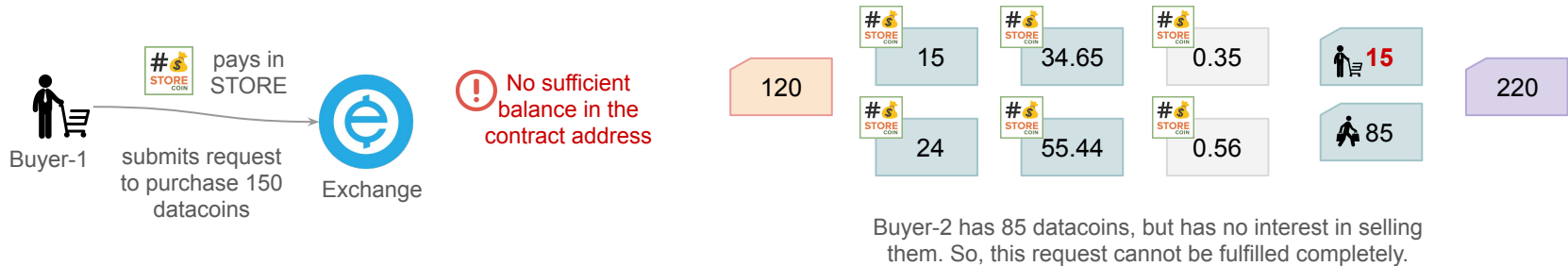


80 datacoins purchased from the contract address for 80 STORE are realized as revenue as in step 2. So, dWorkers and developers (and optionally users) share the revenue as before.

5



6



Datacoins in circulation

Buyer-1 was able to buy only **120** datacoins instead of **150** requested. This buyer now has **135** (15+120) datacoins in their wallet. The buyer will have to pay in STORE to access any data *beyond* this cost.

All circulating datacoins are now owned by these two buyers. Unless they are willing to sell or unless new data results in new datacoin issuance, any new buyer will have to pay for data access in STORE only.

Buyer-1 purchasing 120 datacoins with 120 STORE is realized as revenue and revenue share happens as described previously.

