Subscription contract logic explanation

\* There are 3 types of licenses that a user can purchase inside the subscription mechanism

1)Dappbox individual : it can be dappfree , dappstart , dappboxPremium

2)Dappbox Creator : is a reseller of the dapp individual with addons (dapp free cannot be dappCreator)

3)Addon : Addon license can be bought buy dappcreator only , when bought its license is assigned to dappcreator automatically

1) Dappbox individual

1) dappbox free (1 month only)

2) dappbox start

3) dappbox premium

\* User can buy any of three individual dappbox , each dappbox has different specifications and price as well . Since other than dappBox free other dappbox individual is renewable , there buying is of monthly basis or yearly basis .

\*Note : dappboxfree can be bought only once for a month . Once dappbox free is bought , it cannot be bought again

# figure : DappBox Creator diagram

\* DappCreator will be based on either dappboxStart or dappboxPremium only

DappBox Start

Dappbox Premium

\*note : dappbox free cannot be base for dappCreator

Addon 1

Addon 2

Addon n

\* DappCreator can have any number of addons

\* dappCreatorcan decide to resell owned dappcreator dappbox.And sets the price according to them.

License buying (other than dappfree ) can be done on monthly basis or yearly basis . And we are using Prorate for user convenience . According to time Price(SAT) is calculated

\*according to Smart contract logic

=>user defines cycleType and numCycles

\*cycleType can have 2 value , were 0 = monthly basis , and 1 = yearly basis

\*numCycle define the number of month or year user want

CycleType , numOfCycle

(cycleType = 0) (cycleType = 1)

Time calculation based on month basis

Time calculation based on yearly basis

(current timestamp) (numOfCycle + 1) (current timestmap) (numOfCyles + 1)

Find currentDay

Then , current month

has How many

days . According

To which days

left in current month

Is calculated

Adding both gives total time

Adding both gives total time

Now according to time total SAT is calculated for subscription

(numOfCycle+1)\*(month\*12)

Current day , month is

calculated , Then days

left in month and

Months Left in year

is calculated

(NumOfCycle+1) \* Month