

## **REWARDS CALCULATION FORMULA**

We created the most fair formula for distributing the rewards earned each month.

Two important factors have been considered:

- for calculating staking time, the day after we receive native FSN from individual is considered for the first staking day;
- when distributing the rewards, some assets will be used as gas. That is why we use only
   2 decimal numbers when calculating and distributing the rewards!

In formula we use:

Ri = reward for individual to be calculated

**Rtot** = total rewards node has earned in period of time (one calendar month), lowered by the 12,5% management fee

**FSNi** = (total days within month individual has participated in staking) x (amount he was staking)

**FSNtot** = sum of FSNi for all individuals that participated in the staking within the month.

## Ri = Rtot x FSNi/FSNtot

## **EXAMPLE**

We explain the above mentioned formula, we have a simulation with five individuals. Each joins on different day and stakes different amount.

```
Individual 1 = I1 / joins 1.7.2019 (30 days) / stakes 2.300 FSN
Individual 2 = I2 / joins 9.7.2019 (22 days) / stakes 4.000 FSN
Individual 3 = I3 / joins 16.7.2019 (15 days) / stakes 750 FSN
Individual 4 = I4 / joins 28.7.2019 (3 days) / stakes 1.650 FSN
Individual 5 = I5 / joins 30.7.2019 (1 day) / stakes 250 FSN
Rtot = Total rewards earned in month 7 year 2019 and lowered for 12,5% management fee = 115 FSN
```

**FSNtot**=2.300x30 + 4.000x22 + 750x15 + 1.650x3 + 250x1 = 173.450 FSN days

```
R1 = 115 FSN x (2.300 FSN x 30 days)/173.450 FSN days = 45,748 FSN R2 = 115 FSN x (4.000 FSN x 22 days)/173.450 FSN days = 58,345 FSN R3 = 115 FSN x (750 FSN x 15 days)/173.450 FSN days = 7,458 FSN R4 = 115 FSN x (1.650 FSN x 3 days)/173.450 FSN days = 3,281 FSN R5 = 115 FSN x (250 FSN x 1 day)/173.450 FSN days = 0,165 FSN R1+R2+R3+R4+R5 = 114,997 FSN
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