SmartNode Payment Determination

SmartNode payments in SmartCash wallet version 1.1.0 are determined using a decentralised deterministic queue with probability driven selection.

Global list

Every SmartNode appears in the global list. Their position in this list is determined by the time from the last payment. New SmartNodes and SmartNodes that received a payment are placed at the end of the list.
It is recommended to only use the command 'start-missing' to start SmartNodes since it will only start nodes that need to be started. You can also use 'start-alias' and specify the specific node you want to start. The start-all command will reset the payment queue on any active nodes.

 As SmartNodes are moved to the end of the global list, the remaining SmartNodes slowly migrate towards the top of the list. Once a SmartNode reaches the top 10% of the global list, it is eligible for selection from the selection pool. *As an example, if there are 8000 active SmartNodes, the top 800 SmartNodes in the global list are eligible for selection.*

Once in the selection pool, selection for payment is determined by the block hash and transaction ID which is used to randomly select the next node in the pool to pay.

SmartNode Payment Interval

SNPI in days = SmartNodes/1571

(Total Global Enabled SmartNodes) / 1571 = Average days between payment interval (after the first payment) this represents the average days between payments. Payments vary widely based on the random selection parameters. Some payments can be 11 days and some 1 day. You should not expect a payment before 5 days from starting a node with a new 10,000 SmartCash transaction.

At 8000 total enabled nodes a payment interval would be about 5 days with a range of 1-11 days.

SmartNode Configuration for Payment Eligibility

SmartNodes must have a **unique SmartCash address** per 10k collateral transaction.

SmartNodes must have a **unique static IPV4 address** per smartnode the IP address needs to be the same as what is used in the smartnode.conf file.

SmartNodes must **run 24/7 and not stop for longer than 1 hour** or they drop off the payment queue. Any transaction that **sends from the specific 10,000 SMART** collateral transaction will drop the node off from the payment queue.

SmartNodes also qualify for SmartRewards. SmartRewards are paid on the 25th of each month as long as there has been over 1000 in an address and no transaction sent from that address from the previous 25th. Sending a smartnode payment from your wallet will disqualify rewards even if you don't send from the 10,000 SMART collateral transaction.