

# Executive Summary

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Transforming Telecommunications with the Blockchain.

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## Minutes Network

- Minutes Network is a voice-call termination service provider [1], operating in a market that generates annual revenue close to \$251 billions [2].
- Minutes Network generates income by charging Tier 1 carriers [3] for terminating their international voice call traffic.
- Minutes Network is already working with Lebara, Vodatel, Skype, Worldcall, Sygmatel and IDT and is terminating more than one million minutes of international voice traffic every month.
- Minutes Network conservatively projects gross revenue will exceed \$50m per annum by end 2025, equivalent to a 0.4% value share of the international wholesale voice call market.

## MinTech

- MinTech is Minutes Network's software development and engineering hub focused on re-imagining and disrupting the international wholesale telecommunications industry.
- MinTech's initial suite of proprietary software and protocols [4], centre around
  - optimising call costs via the MinTech Revenue Turbine (MRT) [5], and
  - the ability to terminate calls across a range of non-traditional platforms via the MinTech Flexible Connect technology.
- Harnessed together these innovations enable Minutes Network to provide international wholesale voice carriers with call terminations at systemically lower prices than can be legitimately achieved by any other wholesale service provider.
- The MinTech Development Sandbox [6] is the centre of pre-production and testing ensuring a continuous stream of innovation.
- The key to Minutes Network's exponential growth is the MinTech Rapid Growth Library (MRGL) [7]. This radical innovation will enable Minutes Network to scale its global consumer footprint. More details on this will follow in an announcement closer to the TGE.
- Also in 2024, further MinTech innovations will extend Minutes Network wholesale services provision into the domestic calling market.
- MinTech is the power behind Minutes Network's business plans. Due to MinTech's unique engineering, Minutes Network will have on-boarded more than two-billion users into its worldwide telephony network by 2030.
- It is this income that provides the means through which Minutes Network redistributes value, creating a broad-scale international telecommunications sharing economy via the Minutes Network Token.

## Minutes Network Token (MNT)

- The MNT Nodes provide the critical infrastructure that enables Minutes Network to terminate international traffic and do so over a stable global platform.
- The total MNT Token supply is capped at 500 million tokens. The full supply will be released over the first 60-months following the Token Generation Event closing, via an algorithmic smart contract.
  - MNT utilises the Ethereum (L1) blockchain to decentralise and distribute telephony infrastructure and create the reward-based sharing economy.
  - MNT utilises World Mobile's AyA chain as a traceability layer for the cost effective settlement of data.
  - MNT utilises AyA's multichain architecture to perform rollups on other public blockchains (L2) containing the hash of the data published on AyA serving as the trust layer.
- MNT will roll out on the Ethereum blockchain as an ERC20 token.
- Following the listing of MNT on secondary exchanges, the net revenues of Minutes Network's will be used to purchase MNT from listed exchanges. The MNT purchased will be sent for automatic distribution as rewards to network participants.
- The utility of MNT is derived from two sources: MNT Node Staking and Lowest-cost International Consumer Outbound Calling via the Minutes Network Dialler.

## MNT Node Staking

- The MNT Nodes provide the critical infrastructure that enables Minutes Network to terminate international traffic and do so over a stable global platform.

### Switch Nodes

- 500 Switch Nodes provide sufficient capacity to terminate up to 72 million minutes of traffic per day (10% of global demand).
- They are hosted by Amazon AWS and Digital Ocean as managed solutions, and Switch Node GUI access is provided.
- Minimum staking threshold per Switch Node: 50,000 MNT

### Validation Nodes

- 2,500 Validation Nodes serve to monitor and maintain the health of and integrity of Minutes Network, to ensure the traffic flows without disruption.
- The Validation Nodes are self-hosted, and the minimum hardware requirement is
  - Virtualised or Dedicated Hardware
  - 2.4GHZ Intel or AMD CPU
  - 240GB SSD
  - 100mb NIC
  - Modern Linux Kernel
  - 8GB RAM
- Minimum staking threshold per Validation Node: 10,000 MNT

## International Consumer Outbound Calling

- At its heart, Minutes Network provides in-bound international terminations and whilst we provide carriers with the lowest termination charges, we have no means of ensuring these discounts benefit consumers.
- To ensure our unique low-cost termination rates also benefit consumers, every caller and callee using Minutes Network will share in the MNT token reward programme. In addition, the MNT Token Portal hosts its own international outbound web-caller allowing consumers to make the lowest cost international calls over Minutes Network with MNTs being the sole payment methodology.

## Earning MNT Rewards

- The net profits derived from Minutes Network's termination services are algorithmically transformed into MNTs and allocated to the Token Reward Pool (TRP), which is then allocated between three groups: Node Stakers, Network users and Minutes Network Group.

### Nodes Stakers

- MNT Node Stakers share 60% of the TRP.
- The exact number of MNT rewards distributed depends on the proportion of MNTs Staked vs the Total MNT Circulating Supply with the formula being:

$$(MNT\ STAKED / TOTAL\ CIRCULATING\ SUPPLY) \times 60\% TRP.$$

- The unallocated balance of the 60% is burned.
- There is an active decay mechanism to prevent individual over-staking.
- Nodes can only be secured by buying and staking MNTs.

### Minutes Network Group

- MNG will receive 15% of all rewards generated and utilise into tokens to invest into further network innovations.

## References

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[1] A Wholesale Voice Termination Service Provider Is A High-Capacity Mobile Phone Service That Uses Multiple Lines Or Large Voice Lines. Companies Use Voice Termination Service providers To Connect Long-Distance, Did, International, Local, Or Long-Distance Calls. Source:- <https://carrier2.Network/wholesale-voice/>

[2] International Wholesale Voice Termination By Minutes Volumes And \$ Values, 2021: Source:- <https://www2.telegeography.com/april2023>

[3] A Tier 1 Carrier Charges Other Carriers For Access, And Tier-2 Or Tier-3 Carriers Must Pay For Data Transit. For Example, A Carrier With Network Capability Over Most Of Its Area May Pay Another Carrier For “Last Mile” Service, Where The Data Is Transmitted From One Node To The Endpoint. Source:- <https://www.techopedia.com/definition/27460/tier-1-carrier>

[4] Mintech Operating System Is Integrated And Commercialised Within Minutes Network. The Mintech Profit Turbine Is Responsible For Extracting The Maximum Value From Every Telephone Call We Connect Source:- [www.minutesnetworktoken.io](http://www.minutesnetworktoken.io)

[5] Mintech -Cost Termination Is A Proprietary Technology That Enables International Voice Calls To Be Terminated Over Mobile Applications. Source:- [www.minutesnetworktoken.io](http://www.minutesnetworktoken.io)

[6] Mintech Development Sandbox Is Minutes Networks Centre Of Pre-Production And Ensures A Continuous Stream Of Forward Innovation.Source:- [www.minutesnetworktoken.io](http://www.minutesnetworktoken.io)

[7] Mintech Rapid Growth Library Is Minutes Network’s Proprietary Technology That Enables The Rapid Onboarding Of Users Directly From Integrated Mobile Applications. Source:- [www.minutesnetworktoken.io](http://www.minutesnetworktoken.io)