Block Producer Minimum Requirements (Phases 1-3)

Infrastructure requirements are further clarified in "Telos Block Producer Infrastructure Requirements" document.

<u>Phase One</u>
Initial set of Minimum Requirements

A. Disclosures
1. Block Producer Account Name
2. Block Producer Public Key
3. Block Producer Organization:
       a. Candidate Name
       b. Candidate Website URL
       c. Candidate Domicile Country as 2-letter country code
       d. Candidate server location(s)
              i. Location name
              ii. Country as 2-letter country code
              iii. latitude
              iv. longitude
4. Block Producer Entity Ownership
a. Disclosure of each beneficial owner of block producer entity along with percentage of ownership. [enforced by smart contract]

B. Connection/Contact information
1. Endpoints (existing)
       a. p2p endpoint
       b. bnet endpoint
       c. api endpoint
       d. ssl endpoint
2. Network Emergency Contact(s)
       a. Name
       b. email address
       c. phone number

C. Practices
1. Synching with an approved NTP server once per 24 hours.
2. Adoption of account blacklist maintained by the Elected Arbitrators.

D. Nodes
1. Testnet Node
       a. Minimum RAM: 8GB
       b. Minimum CPU: 2 Cores Intel Xeon
       c. Minimum Disk: 100GB

d. SSL Proxy Requirement: Not required

e. Firewall Requirement: Internal

2. Staging Net Node

    a. Minimum RAM: 8GB

    b. Minimum CPU: 2 Cores Intel Xeon

    c. Minimum Disk: 100GB

    d. SSL Proxy Requirement: Not required

    e. Firewall Requirement: Internal

3. Mainnet Node

    a. Minimum RAM: 24GB

    b. Minimum CPU: 4 Cores Intel Xeon

    c. Minimum Disk: 100GB

    d. SSL Proxy Requirement: Not required

    e. Firewall Requirement: External

    f. Chain_plugin: Not Required

    g. Chain_API_plugin: Not Required

    h. History_Plugin: Not Required

    i. History_API_plugin: Not Required

    j. HTTP_plugin: Not Required

4. API Seed Node – Not Required

    a. Minimum RAM: Not Required

    b. Minimum CPU: Not Required

    c. Minimum Disk: Not Required

    d. SSL Proxy Requirement: Not Required

    e. Firewall Requirement: Not Required

E. Status

1. Compliance with execution of Decisions by Elected Arbitrators

2. Compliance with voting rules of "enforcebpmin" contract or

Phase Two

Minimum Requirements accepted by 2/3+1 of current Block Producers. (Requirement may be either incremented or decremented by block producer vote, and increments may be performed by section, per block producer determination.

A. Disclosures

1. Block Producer Account Name

2. Block Producer Public Key
3. Block Producer Organization:
   a. Candidate Name
   b. Candidate Website URL
   c. Candidate Domicile Country as 2-letter country code
   d. Candidate server location(s)
      i. Location name
      ii. Country as 2-letter country code
      iii. latitude
      iv. longitude
4. Block Producer Entity Ownership

a. Disclosure of each beneficial owner of block producer entity along with percentage of ownership. [enforced by smart contract]

B. Connection/Contact information
1. Endpoints (existing)
   a. p2p endpoint
   b. bnet endpoint
   c. api endpoint
   d. ssl endpoint
2. Network Emergency Contact(s)
   a. Name
   b. email address
   c. phone number

C. Practices
1. Synching with an approved NTP server once per 24 hours.
2. Adoption of account blacklist maintained by the Elected Arbitrators.

D. Nodes
1. Testnet Node
   a. Minimum RAM: 16GB
   b. Minimum CPU: 2 Cores Intel Xeon
   c. Minimum Disk: 150GB
   d. SSL Proxy Requirement: Not required
   e. Firewall Requirement: Internal

2. Staging Net Node
   a. Minimum RAM: 16GB
   b. Minimum CPU: 2 Cores Intel Xeon
   c. Minimum Disk: 150GB
   d. SSL Proxy Requirement: Not required
   e. Firewall Requirement: Internal

3. Mainnet Node
    a. Minimum RAM: 32GB
    b. Minimum CPU: 4 Cores Intel Xeon
    c. Minimum Disk: 150GB
    d. SSL Proxy Requirement: Required
    e. Firewall Requirement: External
    f. Chain_plugin: Required
    g. Chain_API_plugin: Required
    h. History_Plugin: Required
    i. History_API_plugin: Required
    j. HTTP_plugin: Required

4. API Seed Node – Not Required
    a. Minimum RAM: 32GB
    b. Minimum CPU: 4 Cores Intel Xeon
    c. Minimum Disk: 150GB
    d. SSL Proxy Requirement: Not Required
    e. Firewall Requirement: External

Phase Three
Minimum Requirements accepted by 2/3+1 of current Block Producers. (Requirement may be either incremented or decremented by block producer vote, and increments may be performed by section, per block producer determination.

A. Disclosures
1. Block Producer Account Name
2. Block Producer Public Key
3. Block Producer Organization:
    a. Candidate Name
    b. Candidate Website URL
    c. Candidate Domicile Country as 2-letter country code
    d. Candidate server location(s)
        i. Location name
        ii. Country as 2-letter country code
        iii. latitude
        iv. longitude
4. Block Producer Entity Ownership
a. Disclosure of each beneficial owner of block producer entity along with percentage of ownership. [enforced by smart contract]
i. Disclosure of accepted third-party identification verification service and identification hash for each beneficial owner.

B. Connection/Contact information
1. Endpoints (existing)
   a. p2p endpoint
   b. bnet endpoint
   c. api endpoint
   d. ssl endpoint
2. Network Emergency Contact(s)
   a. Name
   b. email address
   c. phone number
   d. Disclosure of accepted third-party identification verification service and identification hash for each network emergency contact.

C. Practices
1. Synching with an approved NTP server once per 24 hours.
2. Adoption of account blacklist maintained by the Elected Arbitrators.

D. Nodes
1. Testnet Node
   a. Minimum RAM: 16GB
   b. Minimum CPU: 2 Cores Intel Xeon
   c. Minimum Disk: 150GB
   d. SSL Proxy Requirement: Not required
   e. Firewall Requirement: Internal

2. Staging Net Node
   a. Minimum RAM: 16GB
   b. Minimum CPU: 2 Cores Intel Xeon
   c. Minimum Disk: 150GB
   d. SSL Proxy Requirement: Not required
   e. Firewall Requirement: Internal

3. Mainnet Node
   a. Minimum RAM: 32GB
   b. Minimum CPU: 4 Cores Intel Xeon
   c. Minimum Disk: 150GB
   d. SSL Proxy Requirement: Required
   e. Firewall Requirement: External
   f. Chain_plugin: Required
   g. Chain_API_plugin: Required
   h. History_Plugin: Required
   i. History_API_plugin: Required

       j. HTTP_plugin: Required

4. API Seed Node – Not Required
    a. Minimum RAM: 32GB
    b. Minimum CPU: 4 Cores Intel Xeon
    c. Minimum Disk: 150GB
    d. SSL Proxy Requirement: Not Required
    e. Firewall Requirement: External