**Synergy Network Address Formatting Specification**

1. Address & Key Examples

1.1 Wallet Address Example

sYnQXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

\*Generated using Bech32m encoding with a randomly selected sYnQ, sYnU, sYnX, or sYnZ prefix. Always 41 characters.\*

1.2 Public Key Example

6fd47f3a8dca7e47c5f9a9128b3a45dc1f91de789da3e69f54a8a13fd0a937a2

1.3 Private Key Example

d14c8d2e5b3f7a9a0f2b3c8d1e2f3a7c6d5e4f2a1b9c3d7e8a0f1b2c3d4e5f6a

1.4 Smart Contract Address Example

sYnS-CONTRACT-8a7b5c9f3d6e1a2b4c7d8f9e0a5b6c3d

or

sYnC-CONTRACT-8a7b5c9f3d6e1a2b4c7d8f9e0a5b6c3d

1.5 Transaction Identifier Example

sYnTtXn-abcdef1234567890abcdef1234567890

or

sYnAtXn-abcdef1234567890abcdef1234567890

1.6 Synergy Naming System (SNS) Example

alice.syn

1.7 Universal Meta-Address (UMA) Example

syn:sYnQ3d5...:sol:EmTJ4FK6FoSvbgLPRKHFEdz5J2hE1fpNfkBjxB6UTx9A

1.8 Validator/Node Address Example

sYnV1XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(where the 5th character is a number 1-5)

1.9 Coin/Fungible Token Example

sYnBtKn-XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

or

sYnJtKn-XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

sYnKtKn-XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.10 NFT Example

sYnNfT1XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(NFT group 1; 5th character is 1-5)

1.11 Cluster/Group Address Example

sYnGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

or

sYnHXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.12 Governance Proposal Example

sYnDaO-XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.13 Governance Auditor/Oversight Example

sYnOXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.14 DAO Substructure/Committee Example

sYnYXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.15 Multisig Example

sYnMXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

sYnWXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

sYnLXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.16 Fee Collector Example

sYnFXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.17 Burn Address (canonical, unspendable)

sYnR000000bUrN000000tHaT000000cOiN

- Always exactly 41 characters.

- All burns across the network are sent to this address only.

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2. Prefix Table

| Address Prefix | In Use? | Reserved For |
| --- | --- | --- |
| sYnA- | ✓ | Transaction |
| sYnB- | ✓ | Fungible Tokens (Coin) |
| sYnC- | ✓ | Smart Contracts |
| sYnD- | ✓ | Proposals |
| sYnE- | × | **Do not use (reserved for future protocol expansion)** |
| sYnF- | ✓ | Fee Collector |
| sYnG- | ✓ | Clusters/Groups |
| sYnH- | ✓ | Clusters/Groups |
| sYnI- | × | **Do not use (reserved for future protocol expansion)** |
| sYnJ- | ✓ | Fungible Tokens (Coin) |
| sYnK- | ✓ | Fungible Tokens (Coin) |
| sYnL- | ✓ | Multisig |
| sYnM- | ✓ | Multisig |
| sYnN- | ✓ | NFTs |
| sYnO- | ✓ | Governance Auditor/Oversight |
| sYnP- | × | **Do not use (reserved for future protocol expansion)** |
| sYnQ- | ✓ | Wallet |
| sYnR- | ✓ | Burn Address |
| sYnS- | ✓ | Smart Contracts |
| sYnT- | ✓ | Transaction |
| sYnU- | ✓ | Wallet |
| sYnV- | ✓ | Validator/Nodes |
| sYnW- | ✓ | Multisig |
| sYnX- | ✓ | Wallet |
| sYnY- | ✓ | DAO Substructure/Committee |
| sYnZ- | ✓ | Wallet |

3. Address Structure

General Rules:

- All standard Synergy addresses are 41 characters, unless otherwise documented.

- The first four characters always indicate the type/purpose.

- No prefix is ever assigned to more than one address type.

Special Formats:

- Smart Contracts: sYnS-CONTRACT-..., sYnC-CONTRACT-...

- Transactions: sYnTtXn-..., sYnAtXn-...

- Validators/Nodes: sYnV[1-5]...

- Coins (Fungible Tokens): sYnBtKn-..., sYnJtKn-..., sYnKtKn-...

- NFTs: sYnNfT[1-5]...

- Clusters/Groups: sYnG-..., sYnH-...

- Governance Auditor/Oversight: sYnO-...

- DAO Substructure/Committee: sYnY-...

- Multisig: sYnM-..., sYnW-..., sYnL-...

- Fee Collector: sYnF-...

- Burn Address: sYnR000000bUrN000000tHaT000000cOiN

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4. Reserved and Special-Use Addresses

SNS: [name].syn

- Human-readable aliases, resolved by the Synergy Naming System.

UMA: syn:[synergy address]:[external chain]:[external address]

- Universal meta-addresses for cross-chain interoperability.

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5. Address Generation Process

1. Generate a quantum-safe key pair (Dilithium-3 default).

2. Hash public key with SHA3-256 or BLAKE3.

3. Encode hash with Bech32m (target 41 characters).

4. Select appropriate prefix for the intended address type.

5. Concatenate and register as a Synergy address.

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6. Canonical Burn Address

All Synergy token or asset burns MUST be sent to:

sYnR000000bUrN000000tHaT000000cOiN

This address is unspendable and is recognized network-wide as the single burn destination.

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