

STSQSI | P017 |

What are CAPs?

? Continuous Improvement: Stellar Core Advancement Proposals (CAPs) are formal proposals for making changes or enhancements to the core protocol of the Stellar network. They are essential for the ongoing improvement, stability, and scalability of Stellar's blockchain infrastructure.

2. Purpose of CAPs:

? Protocol Improvement ? New Features & Fixes: CAPs introduce new features, fix bugs, and enhance the performance and security of the Stellar network.

? Community Involvement ? Open Development: CAPs are community-driven, allowing developers, stakeholders, and users to propose and discuss changes to the Stellar protocol.

? Transparency and Consensus ? Open Discussion: CAPs ensure that any changes are made transparently and with broad community consensus.

3. CAP Process:

? Proposal Submission ? Starting Point: A CAP begins with a proposal outlining a problem, solution, and rationale. This is submitted by a member of the Stellar community.

? Discussion and Review ? Community Feedback: The proposal is discussed, revised, and refined based on input from the community and stakeholders.

? Formalisation ? Detailed Specs: Once agreed upon, the proposal is formalised into a CAP document with technical specifications.

? Implementation ? Coding & Testing: If accepted, the CAP is implemented, rigorously tested, and integrated into Stellar Core.

? Activation ? Network Deployment: The change is deployed to the network, often requiring consensus from validators to ensure a smooth transition.

4. Impact of CAPs:

? Enhanced Functionality: CAPs introduce new capabilities, enabling Stellar to support more applications and use cases.

? Increased Security: CAPs address vulnerabilities and improve network security.

?? Scalability and Performance: CAPs enhance the network's ability to handle more transactions and complex operations.

? Community-Driven Development: CAPs encourage collaboration within the Stellar community, ensuring the network evolves to meet users' needs.

5. CAP vs. SEP:

? Scope ? Core Protocol Focus: CAPs focus on the core protocol, while SEPs (Stellar Ecosystem Proposals) address standards for building on the network.

? Impact ?? Fundamental Operations: CAPs directly impact the blockchain's core functions, while SEPs influence how developers, businesses and users leverage the network.

6. Conclusion:

? Adapting to Change: CAPs ensure that Stellar continues to evolve by allowing the community to propose, discuss, and implement improvements to the core protocol. This process helps keep Stellar robust, secure, and innovative.

7. How to Teach Others:

? Use Development Analogies: Explain CAPs as software updates that enhance and secure the core system.

? Focus on Community Involvement: Highlight how CAPs enable the Stellar community to shape the network's future through collaboration.

By J @nedyajpanapa