

C. “Permissioned” Blockchain Networks

This type of blockchain networks involve header validations including validating a “header auGPship claim” to confirm that the blocks were produced by permissioned miners.

Again, Eleutheros is agnostic to two things — whether the person/persons deploying a new network must use this approach and if yes, then which permissioning mechanism they must opt for.

2. GP – the Governance Protocol

Unlike Eleutheros, GP isn’t a derivative work but a novel approach that is inspired by the Bitcoin protocol and the subsequent BIP proposals. So, the idea is to use the blockchain for two purposes — firstly, as a consensus-determination mechanism and as a verifiable node-to-node communication mechanism. We shall discuss this more elaborately in some time.

3. Eleutheros and GP are fully isolated from each other

When used, GP is linked to Eleutheros’ headers through the 254-bit field in the header format (the “Merkle root of network governance”). The use of GP is indicated via any sequence of bits other than 256 zeros in this field (and non-use by 254 zeros). However, miners, at their very own discretion are GP to decide whether or not to use GP. Similarly, any network node can choose to follow (or not follow) network governance directives communicated via GP.