

Take a look at the six proposals of Filecoin

FileCoin (<https://learnblockchain.cn/tags/FileCoin>) IPFS (<https://learnblockchain.cn/tags/IPFS>)

At 01:34 on November 24th, Beijing time, Filecoin project staff Jennifer once again reminded miners on slack to upgrade to lotus v1.2.0 as soon as possible. The Filecoin network will reach 265200 at the block height (approximately November 25th, Beijing time). 07:55) on the day of the upgrade...

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Since November 10th, Filecoin network gas fees have been on the rise. Unreasonable gas fees have largely restricted the development of the Filecoin network. In order to effectively solve the problem of excessive gas fees, Filecoin officially launched the Lotus v1.2.0 version. This version includes the FIP-5 proposal, which removes expensive miner reward attribution calculations from PreCommitSector and ConfirmSectorProofsValid, which can effectively reduce gas consumption, release chain bandwidth and reduce miner costs, and can reduce the gas cost of WindowPoSt by up to 200M .



The Lotus v1.2.0 version includes the FIP-5 proposal. So far, Filecoin has six FIP proposals. Next, let's take a look at the six proposals of Filecoin.

01.

What is Filecoin FIP?

Filecoin is still in its infancy, but has the potential to play a central role in the storage and distribution of human information. In order to help the growth and development of the network, the collective participation of the community in proposing, discussing and implementing changes to improve the network and its operations is essential.

Therefore, the **Filecoin network improvement proposal FIP** came into being.

FIP is a design document that can provide information for the Filecoin community, and can describe the definition and characteristics of Filecoin's new functions, as well as the concise technical specifications of the function and the reasons for adopting the function.



FIP is divided into three categories:

- Filecoin Technical Proposal (FTP): It aims to collect community feedback on Filecoin technical issues. These measures include changes to the Filecoin protocol, changes to the block or transaction validity rules, and proposed application standards or

conventions. It is then reviewed by the Filecoin community and technical steering committee. They are usually followed by a PR to the Filecoin specification repository to update the specification of the protocol.

- Filecoin Organization Proposal (FOP): Allow the Filecoin community to make suggestions, discuss and reach consensus on Filecoin governance. This includes procedures, guidelines, methods, and changes to the FIP process.
- Filecoin Recovery Proposal (FRP): Provides a forum for the Filecoin community to discuss with very limited, clearly defined standards (for example, in cases where a protocol error destroys the value of the network). The community will help define this process as needed in the coming months.

Generally speaking, FIP contains a single clear key proposal or new idea. The **more focused the FIP, the more successful the proposal.**

02.

Six FIP proposals for Filecoin

On the exclusive website of Filecoin FIP, we can see that Filecoin currently has 6 major FIPs, namely FIP-1, FIP-2, FIP-3, FIP-4, and FIP-5.

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momack2 Merge pull request #36 from filecoin-project/momack2-patch-4 d418ee4 4 days ago History		
..		
fip-0001.md	Adding more FIP editors!	4 days ago
fip-0002.md	Update fip-0002.md	19 days ago
fip-0003.md	assign fip 0003	last month
fip-0004.md	Update fip-0004.md	5 days ago
fip-0005.md	Update fip-0005.md	18 days ago
fip-0006.md	Move FIP-0006 to Last Call	19 days ago

FIP-1 was created and submitted by Filecoin core member why on April 3, 2019. FIP-1 mainly defines the purpose, guidelines and standards of FIP, including spelling and grammatical consistency repairs, and FIP process Revise and integrate and update specifications, etc.

The background of FIP-2 is that miners sometimes suffer disproportionate fines due to SectorFaultDetectionFee (SP) operation failures, especially in the absence of WindowPoSt. Therefore, the FIP-2 proposal proposes to reduce the cost of detected failures without sacrificing too much safety and providing storage power. It mainly includes the following three aspects:

- Remove the cost of successful recovery;
- Delete the expenses incurred due to missing WindowPoSt;
- **Adjust the sector failure fee to the expected reward of 3.51 days ;**

FIP-3 renamed the "verified client" to Filecoin Plus . The verified client is now a Filecoin Plus client, and the verifier is now a Filecoin Plus notary. The effective computing power of verified clients can increase by 10 times.

The mission of Filecoin Plus is to build a decentralized and useful storage network. By adding a layer of social trust and providing leverage for storage clients, Filecoin Plus stores the transactions of Filecoin Plus customers by providing additional incentives and incentives to store the transactions of Filecoin Plus customers, which can make the network more decentralized. And has accelerated the spread of high-quality services on the Internet.



Background FIP-4 proposal is the primary online Filecoin line, in accordance with the existing economic model FIL block 180 bonus points needed to release the antenna of FIL leading to a serious shortage of liquidity, **F **** IP-4 proposal, FIL 25% of the block reward can be obtained immediately, without linear release .**

The FIP-5 proposal removes expensive miner reward attribution calculations from PreCommitSector and ConfirmSectorProofsValid, which can effectively reduce gas consumption, release chain bandwidth and reduce miner costs.

Filecoin official momack2 believes that simply invalid reward attribution is a very good proposal to increase the throughput of the chain by reducing the amount of gas used, and it can also create a near reasonable cost for miners.



momack2 commented on 23 Oct

Collaborator ...

More chain throughput (via lower gas usage) sounds great! The slight delay in miner rewards (which can be solved by manually triggering `WithdrawBalance` seems like a reasonable cost for such an improvement. 👍

Filecoin miners need to pay for storage failures and consensus failures. The Filecoin network pays for these costs by using locked funds (i.e. uninvested block rewards) and miners' available balance. If these two fees are not enough to cover the total fee, the remaining payable part is recorded in the miner FeeDebt, and the miner is declared as a "debt in arrears", but this will cause the miner to fall into debt and fail to repair the wrong sector In a vicious circle.

The FIP-6 proposal removes debt repayment requirements from DeclareFaultsRecovered, so that miners in debt can recover from storage failures, thereby stopping paying fines and reducing the pressure on Filecoin miners.

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