

How Ethereum upgrades happen: from proposal to hard fork

Changes to Ethereum start as written proposals called EIPs, move through review and client testing, and take effect for everyone at once in a scheduled hard fork.

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CONTENTS

How a change becomes a rule

What one upgrade looks like on paper

Who decides

How to read an upgrade headline

What is not yet known

Sources

Ethereum has no company that ships updates. A change to its rules starts as a written proposal, an Ethereum Improvement Proposal or EIP, and reaches the network only when the teams that build Ethereum's software implement it and node operators run the new version at an agreed moment. That moment is a hard fork: from a set block or time, every node must follow the new rules ^[5].

For a holder, the practical stakes are timing and certainty. An upgrade can change fees, staking or what wallets can do, and headlines often treat a proposal as if it were already live.

Three separate facts decide whether a change is real: the EIP's status, whether a planned upgrade includes it, and whether that upgrade has activated.

How a change becomes a rule

EIP-1, the document that runs the process, defines an EIP as "a design document providing information to the Ethereum community, or describing a new feature for Ethereum or its processes or environment" ^[1]. EIPs come in three types, "Standards Track, Meta, or Informational" ^[1]. Changes to the rules every node enforces are Standards Track EIPs in the Core category, which covers "improvements requiring a consensus fork" ^[1].

Each EIP moves through statuses that EIP-1 lists: Draft, Review, Last Call and Final, with Stagnant, Withdrawn and Living as side states ^[1]. Last Call is "the final review window for an EIP before it is moved to Final" ^[1]. A Final EIP "represents the final standard" ^[1].

Core EIPs then need client teams, the groups that write Ethereum's node software. EIP-1 says Core EIPs "require client implementations to be considered Final," and points authors to AllCoreDevs calls, which serve "to coordinate EIP implementation for network upgrades" ^[1].

Choosing what goes into a given upgrade is a separate step. EIP-7723, itself still in Last Call, sets out five stages: Proposed for Inclusion, Considered for Inclusion, Scheduled for Inclusion, Declined for Inclusion and Included ^[2]. Each upgrade can have its own Meta EIP listing those choices ^[2].

Analogy, not the mechanism itself: an EIP is like a bill, client teams are the agencies that must build it, and the fork date is the day it takes effect for everyone at once.

What one upgrade looks like on paper

EIP-7600, the Meta EIP for the Pectra upgrade, lists the core EIPs it included and an activation epoch and timestamp for each network, including mainnet ^[4]. Ethereum.org's timeline dates Pectra to May 7, 2025, and Dencun to Mar. 13, 2024 ^[5].

A single rule inside a fork can matter for years. EIP-1559, part of the London upgrade on Aug. 5, 2021, at block 12,965,000, changed how fees work; its abstract says "the base fee per gas is burned" ^{[3][5]}.

The sequence below is invented to show the order of steps. EIP-9999 and its upgrade are not real.

Step	Status or stage	Illustration
Author vets the idea on the Ethereum Magicians forum	Before Draft	Week 0
Merged into the EIP repository	Draft	Week 2
Author requests peer review	Review	Week 6
Added to the upgrade's Meta EIP	Proposed for Inclusion	Week 8
Client teams agree to try it on test networks	Considered for Inclusion	Week 10
Core developers agree it is on track for the upgrade	Scheduled for Inclusion	Week 20
Final review window opens	Last Call	Week 22
Specification closed	Final	Week 24
Fork activates on mainnet	Included	Week 30

Who decides

The written process does not settle every dispute. EIP-1 says the EIPs process and AllCoreDevs calls "were not designed to address contentious non-technical issues," and that this leaves client implementers to gauge community sentiment ^[1].

Nodes also have to move together. Ethereum.org says clients "must update their software to implement the new fork rules," and that a fork "may create a temporary split in the network" until clients adopt the changes "in unison" ^[5]. A node that does not upgrade follows a chain the rest of the network has left.

In Le Coin's view, that is where power sits: with client teams who decide what to ship and node operators who decide what to run.

How to read an upgrade headline

Check three things. Is the EIP Final, or still in Draft, Review or Last Call ^[1]? Is it listed as Scheduled for Inclusion, or only Proposed or Considered, in a named upgrade's Meta EIP ^[2]? Has that upgrade activated on mainnet, with a date on ethereum.org's timeline ^[5]?

A proposal that clears only the first test is a finished document, not a live rule.

What is not yet known

EIP-7723's inclusion stages are in Last Call, not Final, so the planning vocabulary may still change ^[2].

EIP-1 offers no formal route for contentious non-technical disputes; it says they "often end up entangled" in a process not built for them ^[1].

In Le Coin's view, an Ethereum upgrade is a coordination exercise with a written trail. The EIP records what changes, client teams decide what ships, and the fork date makes it binding for everyone at once.

Sources

1

EIP-1, "EIP Purpose and Guidelines," ethereum/EIPs commit deb8f0d, <https://github.com/ethereum/EIPs/blob/deb8f0d3ea9167bd30775fb3d45d052fce651d56/EIPS/eip-1.md>, accessed 2026-10-16, 10:56 p.m. ET.

2

EIP-7723, "Network Upgrade Inclusion Stages," ethereum/EIPs commit deb8f0d, <https://github.com/ethereum/EIPs/blob/deb8f0d3ea9167bd30775fb3d45d052fce651d56/EIPS/eip-7723.md>, accessed 2026-10-16, 10:56 p.m. ET.

3

EIP-1559, "Fee market change for ETH 1.0 chain," ethereum/EIPs commit deb8f0d, <https://github.com/ethereum/EIPs/blob/deb8f0d3ea9167bd30775fb3d45d052fce651d56/EIPS/eip-1559.md>, accessed 2026-10-16, 10:56 p.m. ET.

4

EIP-7600, "Hardfork Meta - Pectra," ethereum/EIPs commit deb8f0d, <https://github.com/ethereum/EIPs/blob/deb8f0d3ea9167bd30775fb3d45d052fce651d56/EIPS/eip-7600.md>, accessed 2026-10-16, 10:56 p.m. ET.

5

ethereum.org, "Timeline of all Ethereum forks (2014 to present)," <https://ethereum.org/ethereum-forks/>, accessed 2026-10-16, 10:56 p.m. ET.

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Not financial advice.