



General Introduction

Homestead Release

Blockchain Tech in the Silicon Valley

Socialising





Homestead

Hardfork

At Block #1150000

No longer safe

No more kill switch

Implements:

EIP-2 Homestead Hard-fork Changes

EIP-7 DELEGATECALL

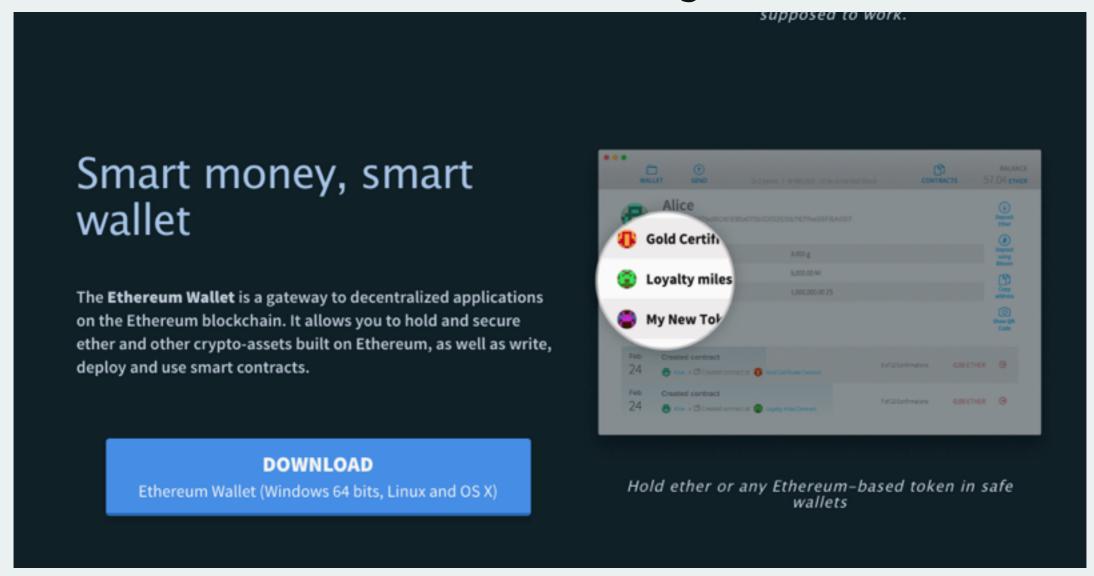
EIP-8 devp2p Forward Compatibility Requirements for Homestead



Homestead

UI Wallet

Recommended on ethereum.org





Gas cost increase for creating contracts with a tx

Frontier: 21000

Homestead: 53000

Eliminates cheap 1 to 1 transactions

Create Contract -> Immediate Suicide (11664 gas)



EIP-2

s-values > secp256k1n/2 are now invalid

Eliminates transaction malleability

s = secp256k1n - s

v = v == 27 ? 28 : 27

Signature still valid, but tx hash different



Out of gas during contract creation

Frontier:

before the code is added to the state: No Contract during the code is added to the state: Empty Code otherwise: Working Contract



Out of gas during contract creation

Homestead:

before the code is added to the state: No Contract during the code is added to the state: No Contract otherwise: Working Contract



Change in difficulty calculation

Mining blocks with parent_timestamp+1 could increase the blocktime

-> Frontier Blocktime: ~17s

New formula fixes this issue (see EIP-2 for details)

Homestead Blocktime is now ~15s



DELEGATECALL

New Opcode

calls contract code in current contract execution preserves CALLER and VALUE

Useful for libraries or mutable code

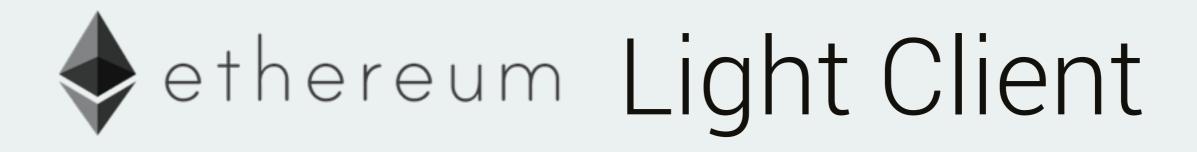


EIP-8

Changes to the base devp2p protocol

Adds forward compatibility

Not a change in the consensus layer



Still not fully merged

But first transaction from a light client

Last merge was last week -> Progress

LES protocol now part of milestone for 1.5.0



Makefile for iOS / Android

Reversed Events

Sending transactions uses GPO by default

Push API for logs

personal.lockAccount

github.com/ahirner/ethereum