

ethereum vienna

Spurious Dragon Geth 1.5 and ENS

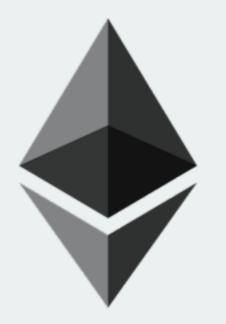


General Introduction

Updates

Ethereum Name Service (ENS)

Socialising



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Updates

Geth 1.5

First big update in 8 months

Latest: 1.5.5 (6 versions!)

Initial GO Api, Android / iOS Support

RPC Changes

Spurious Dragon

Spurious Dragon HF

At block 2,675,000 (Nov 22nd)

EIP155 adds basic replay protection

EIP160 increases the gas cost of EXP

EIP161 to get rid of empty spam accounts

EIP170 contract size limit

Spurious Dragon HF

EIP161 defines an accounts as empty if

no code

nonce 0

balance 0

all empty accounts that are touched during a transaction will be deleted at the transactions end

Consensus Issues

SD caused fork between geth and parity on Morden

Morden abandoned

=> new testnet: Ropsten

Consensus Issues

SD caused fork between geth and parity on Mainnet

parity reversed account deletions on OOG geth didn't

triggered by the state clearing process

=> geth chain was abandoned

Spurious Dragon HF

State clearing process is now complete

geth --fast resync to get a smaller datadir

Light Client

Geth 1.5

LES protocol can enabled with --light

Client ready to use in a minute or two

Works quite well, but still considered experimental

Performance issues with lots of filters (UI Wallet)

Swarm

Geth 1.5

Swarm alpha now ships with geth (POC 0.2 RC5) Separate "swarm" binary

SWAP functional, but switched off

No SWEAR of SWINDLE yet

ENS integration

Onward

Focus now returns to Metropolis

Abstractions Changes

Mist Browser (now audited)

Infrastructure like SWARM / Whisper / ENS

Meanwhile CASPER / Sharding research continues

Reading material

Somewhere on the ethereum github:

FAQ on Sharding

FAQ on POS

"History of Casper" Series by Vlad

Part 1&2 on ethereum blog

Part 3 and onward only on medium

Introduction to zkSNARKs (2 posts)

Blockchain Startup Contest

2 main winners were ethereum projects:

status.io

etherisc

Other prizes went to

minebox

helperbit

bernstein

Ethereum Vienna in 2016

18 events

10 meetups

7 workshops

280 new members (425 total)

Presentations from Nick Dodson and Grid-Singularity



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Ethereum Name Service (ENS)

Ethereum Name Service

Resolves names to resources (address, swarm hash)

Domains and Subdomains:

sub.myname.eth

3 main components:

ENS registry: maps names to resolvers

Resolver: maps names to resources

Registrars: allocates names (owner of names)

Registry

deals with names instead of hashes

hash is derived from label + the rest of the domain contract can verify the permissions for subnodes by computing hash in contract

Owner of a name can set the resolver for that name set the owner of subnodes

Resolver
maps nodes to resources

Nick Johnson Presentation

Now deployed on Ropsten

.eth domains use a Vickrey acution

.test domains can be registered for free, but expire

Vickrey auction:

Sealed Bid Auction (runs 7 days)

1 day reveal phase

Winner pays 2nd highest bid

Unrevealed / Invalid bids lose deposit

Plan for mainnet:

.eth registrar active for 2 years

Then supposed to be replaced

Root name owned by multisig

Only name of at least 7 characters allowed

github.com/ahirner/ethereum