

# Bitcoin Hush (**BTCH**) Cryptocoin Specification

## Pre-Release Version

Duke Leto, jl777

January 23, 2018

### Abstract.

Bitcoin Hush (**BTCH**) is a new research and development cryptocoin which has many unique features compared to existing options. It avoids all transaction history and simply imports Unspent Transaction Output (UTXO) values for four different blockchains onto a fifth, brand-new chain. We use the Komodo Asset Chain feature to build a coin with delayed-Proof-of-Work (dPOW), which enjoys the full security of Bitcoin level security via notarization.

Additionally, the need for the latest two way replay protection (2WRP) algorithms are completely avoided, since no transaction hashes are leaked onto the new chain. This also completely avoids the problem that many Bitcoin forks have where they inherit a very large existing chain and must sync gigabytes of data.

We hope these techniques are utilized in all future Bitcoin and related forks to avoid large inefficiencies as well as potential replay attacks.

The recently released **HushList** protocol is compatible with **BTCH**, **KMD** and all **KMD** asset chains, which all contain *zk-SNARK* technology. Additionally, **HushList** is known to be compatible with **HUSH**, **ZEC**, **ZCL**, **ZEN**, **ZER** and the upcoming Zgold **ZAU** by radix42.

This specification defines how the **BTCH** cryptocoin works and how it builds on the foundation of **Komodo**, **Zcash** and **Bitcoin**.

**Keywords:** privacy coin, cryptocurrency, UTXOs, anonymity, freedom of speech, cryptographic protocols, electronic commerce and payment, financial privacy, proof of work, zero knowledge, zkSNARKs.

<b>Contents</b>	<b>1</b>
<b>1 Introduction</b>	<b>2</b>
<b>2 Bitcoin UTXOs</b>	<b>2</b>
<b>3 Hush UTXOs</b>	<b>2</b>
<b>4 Special Thanks</b>	<b>2</b>
<b>5 References</b>	<b>2</b>

## Introduction

Bitcoin Hush is a "mergedrop", i.e. it is an airdrop of value from four different chains, merged together, on a new chain.

## Bitcoin UTXOs

NOTE: This pre-release refers to stats before the actual snapshot, these numbers will change slightly with the official snapshot.

This data corresponds to Block Height 505157 at 1-20-2018 10:22:15 UTC.

There is 16814298.58608387BTC in circulation stored across 63646112 UTXOs in 27834789 unique transparent addresses (taddrs). Somewhat surprisingly, there are 5605 UTXOs with exactly 0BTC in them and another 872314 UTXOs of a single satoshi. 7002416 transparent addresses are above the dust level of 0.01BTC, and these addresses will be transported to the BTCH chain.

Note that UTXOs of any size are taken into account, but the final sum of all UTXOs in one taddr must be at least 0.01BTC to be part of the airdrop. This level was also used by the Bitcore project (BTX) and it seems like a good standard to follow.

## Hush UTXOs

NOTE: This pre-release refers to stats before the actual snapshot, these numbers will change slightly with the official snapshot.

## Special Thanks

Thanks to madbuda for providing servers and massive amounts of bandwidth for this fantastical project.

## References