BCH Blaze Hub - CashTokens Covenant Suite

BCH BLAZE 2026 | Widget Factory Deck | Mainnet Track + 4 Bounties

- PusdBridgeVault.cash (138 opcodes): Trustless PUSD Stablecoin HTLC Bridge
- NostrDidBinder.cash (54 opcodes): Paytaca BCH <-> Nostr DID (BIP-340 + OP_CHECKDATASIG)
- MerkleRewardVault.cash (169 opcodes): FoldingCash Pull-Based SHA-256 Merkle Claims
- Live Mainnet Tx Builder: BIP-21 & WizardConnect / WalletConnect v2 bch_signTransaction
- EMBER2026 CashTokens: bitcoincash:zqau9rtdjtvsw0a4uwklfqtet6h5g67wa5psj4rk4g

Problem & Value Proposition on Bitcoin Cash

Native CashTokens Covenants Eliminate Custodial Risk & High Fees

- PUSD stablecoin bridges require verifiable on-chain enforcement, not off-chain promises
- Self-sovereign identity should unify Bitcoin Cash and Nostr via shared secp256k1 proofs
- Community token distributions (FLDCH) scale cleanly with pull-based Merkle covenants
- Sub-cent BCH mainnet fees make institutional covenants accessible to everyday wallets

Security Architecture & CashScript 0.14.0 Verification

Zero Mock Regex - 100% Compiled with cashc 0.14.0 & Tested in BCH Script VM

- Oracle OP_CHECKDATASIG binds (htlcHash || recipientPkh || amount || nonce) against tampering
- Paytaca DID Gate requires Input 1 to present an immutable 32-byte Nostr-bound DID NFT
- Vault covenant preservation enforces automatic return of remaining PUSD/FLDCH balances
- All attack paths (inflation, hijack, wrong preimage, mutable NFT) rejected by BCH VM

Live Mainnet Demo, XO Template & Roadmap

12 / 12 Real VM & API Integration Tests Passing

- Open web/index.html or run ‘npm run serve‘ for live Mainnet & VM interactive execution
- Download xo/pusd-bridge-template.xo.json for direct blaze.xo.cash compatibility
- GitHub Repository: https://github.com/tungdeptrai07/bch-pusd-omni-bridge
- Ready for Paytaca, Cashonize, Zapit & WizardConnect Mainnet signing