

# CryptoData Vault LLC

*Excalibur Hard Wallet, SOV Utility Token and*

*SovereignCash Order Book*

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## Executive Summary

This whitepaper summarises the three major elements of CryptoData Vault LLC's (CDV's) Secure Digital Asset Platform: (1) the Excalibur Hard Wallet; (2) the SOV utility token; and (3) the SovereignCash digital asset transaction order book. CDV's hard wallet technology, its SOV token, and the SovereignCash Order Book will enable a full range of secure digital asset functionalities — all the way down to nano-transactions for IoT — in an open source and frictionless ecosystem with no transaction fees imposed.

As the centerpiece of the platform, the SOV token is positioned for rapid uptake and trading across both the SovereignCash Order Book as well as via other digital asset exchanges. CDV's tokenisation strategy is founded on substantial value creation across numerous real-world commercial and institutional business cases.

CDV's executive leadership and technology development team have decades of experience in designing and implementing digital transaction platforms and engineering secure hardware devices. CDV's engineers have industry-leading expertise in hardware engineering, cryptographic security, electronic transaction systems, and blockchain-based applications.

Founder and CEO Keith Benson has been a leading innovator for over two decades. Mr. Benson demonstrated the first cryptographic transfer of value over mobile at the Global Mobile Commerce Forum plenary on June 15, 1998. Subsequently, this innovation became the cryptographic program used in all BlackBerry devices. In 1999, he designed and implemented Navy Cash, the first 100% digital payment system for the U.S. Government, which was later deployed throughout the U.S. Navy and Marine Corps on hundreds of ships and military bases. He has since invented, developed, and patented breakthrough technologies in mobile commerce, hardware security, and near-field communications, along with a plethora of other technologies.

Unlike the hundreds of crypto asset companies that have emerged seemingly overnight, Mr. Benson and the rest of the CDV team are true pioneers and patent holders in the field of critical cryptography. In contrast to many recent market entrants, the CDV technology team holds the unquestionable ability to execute and fully implement the proposed solutions. CDV is developing a hard wallet that will provide the highest level of security, not only for SovereignCash but also for many other major digital assets.

CDV's mission is to create a new generation of ultra-secure hard wallets which will provide functionality for storing a multitude of digital assets. In conjunction with the hard wallets, the SovereignCash Order Book will enable payments for both fiat and crypto assets by converting crypto assets into fiat currencies in near real-time, and without transaction fees.

CDV's solution incorporates "Block-Lock," a patent-pending technology providing optional tracking and enforcement of geographic rules and restrictions, supporting many new commercial and institutional applications. Block-Lock enables asset location verification or locking a virtual asset to a physical place or geographic area. This leading-edge technology provides fundamental improvements to the security and functionality of blockchain applications.

For example, the Block-Lock functionality enables SOV tokens to be subject to automated rules based on physical location and jurisdictional boundaries. Using the

SovereignCash Order Book, this locking capability can be applied to many other existing crypto assets as well as to smart contracts and other digital assets.

The SovereignCash Order Book is based on an open source architecture. The Order Book and CDV's Excalibur Hard Wallet will support many other major existing crypto assets, including Bitcoin, Ethereum, Monero, NEO, Litecoin, and a range of ERC-20 based tokens, and will be fully exchangeable with the major fiat currencies. The CDV hard wallet, Block-Lock technology, SovereignCash Order Book, SOV token, and related applications provide the infrastructure for an integrated and auditable ecosystem which merges premium hardware security, digital assets, blockchain, and IoT into a single secure platform.

## The Digital Asset Market Opportunity

The market opportunity for a genuinely effective digital asset hard wallet is massive. According to research conducted by SATIS Group, by 2028, the digital asset market cap may reach \$3.6 trillion<sup>1</sup>. Currently, the number of hard wallet users exceeds 25 million worldwide.<sup>2 3</sup> As of 2017, the global hard wallet market had a valuation of \$227.5 million, and this number is projected to balloon to \$1.6 billion by 2023, representing a CAGR of over 36%.<sup>4</sup>

## Problems within Digital Asset Security

Security vulnerabilities threaten to inhibit widespread adoption of digital assets. In particular, digital asset wallets continue to be a vulnerable target for external hackers and internal cyber thieves. As a case in point, in 2016, Bitfinex — now the fourth largest cryptocurrency exchange in the world — lost 120,000 Bitcoins from multisig accounts.<sup>5</sup> Two years later, hot wallet hackers siphoned away 523 million NEM coins from Coincheck's exchange.<sup>6</sup> While these are only two substantial examples of the risks

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<sup>1</sup> SATIS Group. (2018) Crypto asset Market Coverage Initiation: Valuation August 30, 2018. Available at <https://research.bloomberg.com/pub/res/d37g1yWebn9LbRbS09rquSuSoDQ>

<sup>2</sup> Statista. (2018). Number of Blockchain wallet users worldwide from 1st quarter 2015 to 2nd quarter 2018. Available at: <https://www.statista.com/statistics/647374/worldwide-blockchain-wallet-users/>

<sup>3</sup> Blockchain.com. (2018). Blockchain Wallet Users. Available at: <https://www.blockchain.com/charts/my-wallet-n-users>

<sup>4</sup> Mordor Intelligence. (2018). Hardware Wallet Market - Segmented by Type (USB, NFC, and Bluetooth) and Geography - Growth, Trends, and Forecast (2018 - 2023). Available at: <https://www.mordorintelligence.com/industry-reports/hardware-wallet-market>

<sup>5</sup> Williams, Sean. (2018). The Biggest Cryptocurrency Hacks in History. Available at: <https://www.fool.com/investing/2018/05/09/the-biggest-cryptocurrency-hacks-in-history.aspx>

<sup>6</sup> Ib.

directly associated with user wallets, numerous additional wallet-based thefts are frequently occurring throughout the world<sup>7 8</sup> .

## Software Wallet Risks

Many crypto assets employ the Elliptic Curve Digital Signature Algorithm (“ECDSA”) to increase security. A private-public key pair can be generated through ECDSA and used to place a unique digital signature on specific transactions. However, existing security measures fail to address the ECDSA vulnerabilities.

First, the use of software wallets, still prevalent in today’s market despite the aforementioned market penetration of hard wallets, creates major risks. Hackers have repeatedly been able to steal private keys, allowing diversion of crypto assets, encrypted documents or other assets. When a user’s wallet is not encrypted, it may expose its owner to this kind of attack. To prevent these attacks from being successful, wallets must be encrypted with robust authentication methods combined with the use of a cold storage (a secured place not connected to the network).<sup>9</sup>

## Other Possible Attack Vectors

Some attacks, e.g., denial-of-service (DDoS), exploit the potential anonymity of users in current digital asset networks — or they target user vulnerabilities through phishing, attacking 3rd parties (e.g., in the Bitfinex hack, BitGo was Bitfinex partner who held the third of three multisig keys required for accessing a user account and hackers were able to attain this key), and attacks on a user’s computer where keys or passwords are stored.<sup>10</sup> Yet another possible attack vector includes using a high number of pseudonym identities — which cannot be traced — where an attacker may be able to influence network behavior for malicious purposes.

Ultimately, all software-based security solutions are susceptible to hacking. As demonstrated by repeated and accelerating instances of hacking of crypto assets in the past two years, existing software wallets, server-based authentication, and other

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<sup>7</sup> Bancor Twitter press release. (2018) Available at: <https://twitter.com/Bancor/status/1016420621666963457>

<sup>8</sup> Forbes. (2018). A \$152,000 Cryptocurrency Theft Just Exploited A Huge 'Blind Spot' In Internet Security. Available at: <https://www.forbes.com/sites/thomasbrewster/2018/04/24/a-160000-ether-theft-just-exploited-a-massive-blind-spot-in-internet-security/#2b0126695e26>

<sup>9</sup> Bitcoin.org. (2018). Securing Your Wallet. Available at: <https://bitcoin.org/en/secure-your-wallet#online>

<sup>10</sup> Tompkins, Jonathan. (2017). Wallets, Exchanges, and Attack Vectors -- How Should You Store Your Crypto-Assets? Available at: <https://www.tokenverse.com/blog/wallets-exchanges-and-attack-vectors-how-should-you-store-your-crypto-assets/>

industry standard security approaches have failed to provide adequate security for crypto assets.

## The CDV Solution

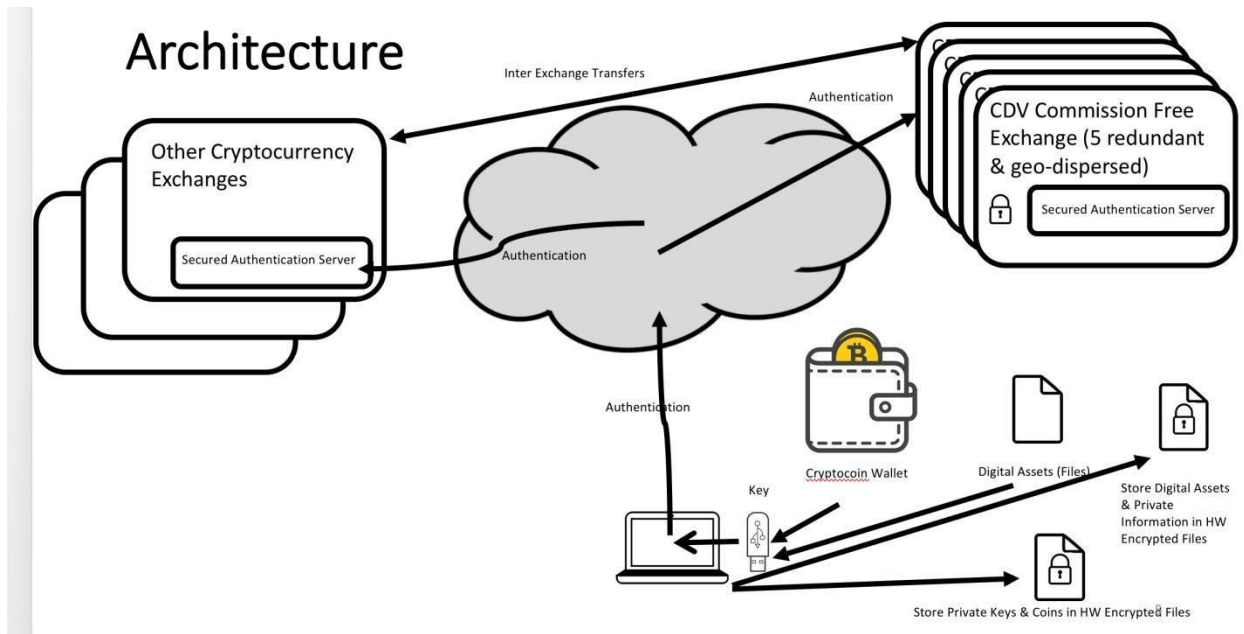
As discussed, current software-based wallets and security protocols are insufficient to protect digital assets against the growing threats of cyber attacks. The losses caused by hacking — and increasingly complex layers of transfer processes in response to the cyber attacks — are slowing digital asset adoption, and the benefits they bring to an ever-burgeoning community of global crypto asset users. Hardware is and will continue to be a critical element of security when dealing with crypto assets.

To address this problem, CryptoData Vault LLC (CDV) is developing an entirely new level of crypto-security. At its core is Excalibur, the most secure hard wallet on the planet. The Excalibur Hard Wallet will seamlessly integrate with the SovereignCash Order Book and the SOV utility token, together creating comprehensive digital asset transaction security and utility.

Unlike most digital assets today, which are based on private keys stored in “hot” wallets on exchanges, SOV tokens are stored offline in a fully encrypted hard wallet that can be freely and securely traded without the risk of hacking at the digital asset exchange level. CDV’s solution provides three breakthrough benefits:

- Best available hardware security technology with state-of-the-art encryption for maximum transaction security.
- “Block-Lock” patent-pending technology enables optional tracking and enforcement of geographic rules and restrictions.
- The SOV token and SovereignCash Order Book can securely execute a broad range of utility and financial transfers, with zero transaction fees imposed, enabling dozens of business and consumer use cases with maximum security and traceability.

By combining next-generation hardware security with unparalleled utility and zero transaction fees, the SOV is positioned to be a dominant utility token for mature crypto applications at scale. CDV provides true cybersecurity for blockchain, digital assets, and ultimately IoT.



# The Excalibur Hard Wallet

CDV’s hardware device, the Excalibur Hard Wallet, is designed to achieve full PKI crypto-security in a physical, tamper-proof form factor, with trustable and verifiable proof of location. The hardware device is to be used with uniquely coded digital asset files that can be Block-Locked, i.e., blocked from being accessed outside of specific geographic boundaries.

The Excalibur Hard Wallet is designed to include (1) a tamper-proof GPS chip for fully encrypted and unfalsifiable geolocation; (2) software for geolocation of an encrypted and Block-Locked token or other digital asset; (3) a Nitro-key circuit; and (4) an encryption engine, all in a tamper-proof hardware device. Importantly, all of this functionality is independent and not executed using any external network.

The device uses near-field communication (NFC) and Bluetooth technologies to connect to other mobile devices or computing devices and the Internet of Things (“IoT”) hubs/gateways. The Excalibur Hard Wallet is natively an IoT gateway, capable of securely controlling and transacting with a full suite of IoT devices. The Excalibur Hard Wallet also includes a USB to connect to a computing device and a USB in-port for the use of third-party PKI identity keys. As such, the Excalibur Hard Wallet offers major advantages over current wallet solutions:

- The Excalibur Hard Wallet does not store private keys, reducing the risk of an online attack.
- Even if the device is stolen, and taken apart and forensically analysed, the private keys cannot be retrieved, and the user's digital assets continue to be safely stored. The user can simply order a new device and retrieve their private keys to access their assets.
- The device is easy to operate through an intuitive interface.
- Bluetooth enabled for ease of use.
- There isn't a way for an attacker to access the funds stored by the device -- either online or locally.
- Takes minutes to set-up and will support an unlimited number of digital and crypto assets. Following a few simple steps, there is no risk of compromising security during set-up.
- Sending funds is as simple as sending an email and requires no technical skill or complicated procedures.
- There is little possibility of attack since the user never has to download or install anything at all to use the wallet.
- Users can immediately convert crypto assets into local cash and execute transactions using payment system methods such as NFC.

## Key Features of the Excalibur Hard Wallet

- PKI identity: Multiple private keys are stored onboard only in tamper-resistant SOCs (systems-on-chip).
- An onboard wallet and geo-location apps; onboard geolocation electronics provide spoof resistance.
- Tight integration and authentication using the CDV digital asset transaction Order Book.
- Onboard storage for crypto tokens, other digital assets, documents.
- Ability to provide the location of a full range of physical assets, such as a car, a purse or documents.

## High Security

- Secret keys are stored in the tamper-resistant and PIN-protected device.<sup>11</sup> Thus, they are secured against viruses, loss, and theft.
- RSA keys of up to 4096 bits and AES-256 encryption are supported.

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<sup>11</sup> Nitrokey. (2018). Secure Your Digital Life. Available at: <https://www.nitrokey.com/>



## No Backdoors

- Installed firmware can be exported and verified, thereby preventing attackers from inserting backdoors into products during shipping.
- Secret keys are generated only by the user, and we have no access to private information.

## Superior to Software-Based Systems

- The hardware security functions independently of any operating system and protects the secret keys against theft, loss, user mistakes, and computer viruses.

The combination of security, comprehensive applications, and user-friendliness provides a transformation for how users will manage crypto assets and other digital assets, positioning the Excalibur Hard Wallet to capture a major share of the hard wallet market.

## Excalibur Hard Wallet APIs

- Digital Asset Storage (Deposit, Withdraw, Account, History)
- PKI Private Key (Authenticate, Decrypt/Encrypt)
- GPS (Get Location, Validate)
- Documents Storage (Directory – List, Change, Create, Delete; Files – Write, Read, Delete)
- Settings (Configure Digital Assets, PKI, Cryptography, GPS, Bluetooth, NFC)

# Excalibur Hard Wallet Versus Other Hard wallets

|                | PKI Private Key Storage | USB Plug | FIDO Standard | ARM7 Cryptographic Processor | Micro SD Storage | GPS Receiver Chip (GPS, GNSS, GLONASS, BeiDou) | Bluetooth Transceiver | NFC Transceiver |
|----------------|-------------------------|----------|---------------|------------------------------|------------------|--|-----------------------|-----------------|
| CDV Nitro      | ✓                       | ✓        | ✓             | ✗                            | ✗                | ✗  | ✗                     | ✗               |
| CDV Excalibur  | ✓                       | ✓        | ✓             | ✓                            | ✓                | ✓  | ✓                     | ✓               |
| Biobex         | ✓                       | ✓        | ✓             | ✓                            | ✗                | ✗  | ✗                     | ✗               |
| Nitrokey       | ✓                       | ✓        | ✓             | ✗                            | ✗                | ✗  | ✗                     | ✗               |
| Yubikey        | ✓                       | ✓        | ✓             | ✗                            | ✗                | ✗  | ✗                     | ✗               |
| CDV Blue Stone | ✗                       | ✗        | ✗             | ✗                            | ✗                | ✓  | ✓                     | ✓               |

## Block-Lock Technology

Block-Lock is a patent-pending security technology underpinning the CDV security domain. It provides definable geofencing parameters. Higher levels of security and functionality can be achieved when electronic transmissions and storage of electronic data associated with digital assets can be geolocated through trusted applications.

The Block-Lock technology provides additional security for blockchain and smart contracts as service providers, and users can add rules stating that digital assets will not be accessed other than in a specific and verifiable location. Consequently, the client is now empowered to securely deliver digital assets in compliance with Block-Locking requirements, allowing proof of jurisdiction that can be verified for purposes of validating location for legal purposes. Parties can now freely use digital assets, while also being able to prove where transactions occurred.

## SOV Utility Tokens

CDV’s technology enables secure digital asset transactions with its own blockchain-type ledger but not requiring mining or proof of work (PoW). Secure, trusted digital signatures go back to the ledger. From the wallet, the software publishes transactions to the blockchain using digital signatures, rather than through a costly distributed work. Trust comes from the cryptographic fact that the transaction is digitally signed. Any false

signature will be removed. At a minimum, this technology achieves the same -- or a greater -- level of trust for SovereignCash users as they would experience with Bitcoin and Ethereum. SOV features include:

- Token values suitable for minimal value transactions.
- Identifiable exchange rate for the US dollar and other major fiat currencies.
- No transaction fees.
- Near real-time transactions.
- Operates on IoT hardware.

## SovereignCash Order Book

Currently under development based on licensed open source software, the SovereignCash Order Book will offer:

- *Order Matching:* Our trade engine software will instantly and automatically match orders between buyers and sellers for the best price available. In addition, we feature different order types such as market and limit orders.
- *Integrated Wallet:* Our software will include multi-currency wallets which allow users to easily implement several different digital assets. All digital assets can be automatically secured via hardware-secured storage to keep them safe.
- *Funds Management:* Other digital assets can be automatically managed by CDV's integrated wallet software.
- *Any Digital Currency:* The Order Book will support the most popular digital assets and add new digital assets as they achieve acceptance.
- *Maximum Security:* Multiple layers of security defend against hacking attempts. The software and wallet will operate on separate servers which safeguard the wallet against any outside attacks.
- *Real-time state-of-the-art threat detection and redress:* The entire platform will be protected with real-time data analytics and threat detection. This creates the ability to intercept and mitigate any attack, from any vector.

## CDV Value Proposition

Working together, the SOV utility token, SovereignCash Order Book and Excalibur Hard Wallet create the CDV Secure Digital Asset Platform, enabling near real-time transactions with zero transaction fees. Using Block-Lock, this will create use cases that are fully compliant with know your customer (KYC) requirements, but without additional

reporting requirements. Block-Lock permits the use of anonymous accounts while being able to meet KYC requirements by establishing entry and exit jurisdiction.

With the CDV Secure Digital Asset Platform any digital asset, including cryptocurrencies and smart contracts, can be secured and anonymously traded, while being fully trackable. Block-Lock makes digital assets behave as if they are real printed money – emulating cash systems – because each SOV token has the capacity to be located to a single geographic location. The ability to track and lock assets to specified jurisdictions drastically increases the level of security. It is similar to placing digital assets in a safe-deposit box. Consequently, the cryptogram will be worthless unless used in a defined geographic location as the physical hardware needs to be in the specific physical place to transact.

The question of “where?” is vital to security on the blockchain. With the Block-Lock SOV token solution, SovereignCash will enable conclusive determination of location and jurisdiction. By emulating cash and applying cash-like properties in a ledger-based transaction system, CDV has the potential to transform the digital asset market. As a result, the SovereignCash tokens are expected to have rapidly increasing demand and widespread usage.

## Platform Benefits

1. Resists hacker attack vectors by requiring hardware key authentication.
2. No transaction fees.
3. A non-custodial SovereignCash Order Book where tokens stored in hard wallets.
4. Interoperable with other exchanges allowing the transfer of tokens for protection through the use of Excalibur Hard Wallet.
5. For U.S. users, the requirements can be configured to enforce anti-money laundering (AML), KYC, and anti-fraud regulations to comply with U.S. bank requirements solely for the conversion of digital assets to cash.

## SOV Secure Digital Asset Platform: Phased Roll Out

SovereignCash comprises approximately 4.3 billion SOVs. Each SOV can be fragmented for nano-transactions into billions of “nano-SOVs” for IoT and nano-transactions. SOVs are designed to work seamlessly with the Excalibur Hard Wallet. Nano-SOVs will be available and intended for many uses, including small-scale cyber asset transfers and machine-to-machine IoT transactions. SOVs will have functional value and will be available for purchase by institutional customers at the most recent exchange rates.

## Phase 1

For Phase 1, CDV will launch with SovereignCash as an ERC223 token on the Ethereum blockchain (symbol: **SOVC**), thus creating a currency that is exchangeable across most of today's digital asset market. At initial distribution, SovereignCash will be supported by security hardware using a Nitrokey hardware solution. The CDV wallet will run on any Android device, and it will store digital asset tokens in fully encrypted data storage, requiring the Nitrokey hardware key for access. While SovereignCash is being transacted on the Ethereum blockchain, CDV will introduce an upgraded hardware crypto gateway and wallet, an updated and fully developed digital asset, along with additional enhancements that incorporate several key features, including Block-Lock and other policy controls.

## Phase 2

For Phase 2, CDV's digital asset platform solution will be deployed based on the Excalibur hardware encryption engine. This will enable a fully secure wallet solution that is operable across multiple exchanges. The original ERC223 tokens will be upgraded to the new SovereignCash token to obtain the additional functionality of full Block-Lock technology and other CDV enhancements, making SovereignCash available for dozens of additional use cases, including IoT nano-transactions, and without transaction fees.

In the transition to CDV's new token, each owner will receive the same number of new tokens. All of the original ERC223 tokens will be transferred to a null recipient smart contract and recorded on the Ethereum blockchain as permanently non-recoverable. Features of SovereignCash will include:

1. Real-time confirmation of transactions.
2. No fees and no mining.
3. Optional Policy Enforcement at Transaction Time for Block-Locking, Anti Laundering, Anti-Fraud, and Limited Use.
4. Records geolocation of every transaction in a multichain and private ledger.

SOVs will build and hold value as a unique token optimised for IoT, governmental and utility transaction systems, media consumption, and other microtransactions.

## Future Use Cases

CDV has designed the SOV token and ecosystem as a comprehensive blockchain-based secure digital asset platform. SOV tokens have extensive utility and functionality

across multiple use cases. SOVs provide capacity for utility via nano-transactions, with each SOV token having the technical capacity for fragmentation into billions of nano-SOVs.

As an essential infrastructure for IoT, SOVs will enable businesses, governments, and other institutions to benefit from a fully integrated, fully functional blockchain platform for applications involving IoT. CDV is leveraging over \$20 million in investment by its technology partners, including Xped Limited, to achieve an IoT gateway enabling token usage for multiple governmental and business use cases. Potential examples include:

- Enable municipal security services with participation of local community IoT devices.
- Pay for exact amounts of resource usage and manage utility services.
- Sell overcapacity energy with adjustable pricing tables (based on supply and demand and production costs), while facilitating local grid management.
- Manage and lend vehicles with exact time-based payment for efficient multi-party uses.
- Retrieve information from industrial machines for insurance and service purposes.
- Ability to track supply chains.
- A more precise market for weather-sensor data.
- Digital rights and smart-contracts enabling transparent solutions for hundreds of additional use-cases.

These and other proposed functionalities will be supported by a the nano-SOV micro-token used for IoT transactions. There will be no transaction fees for this functionality as well.

Given the major commercial benefits of using SOVs and the SovereignCash Order Book in conjunction with Excalibur Hard Wallet, CDV anticipates that the volume of SOV transactions will increase rapidly. For the reasons described throughout this paper, the SOV is positioned to be a leading token in the market for small-scale transactions and commercial and institutional use cases where security and efficiency are vital.

# SovereignCash Distribution

At the genesis, CDV created 4,325,200,327 SOVs. These SOVs are not securities and are not being offered for sale or other distribution by CDV. They have been purchased and will be distributed for utility applications by other marketing entities.

## The CDV Team

CDV's development team includes participation of four leading edge companies providing technologies via license agreements: Heuresy Labs LLC, Stealth Entry LLC, Xped Limited, and Proxidyne Inc. They are contributing expertise, technology, and intellectual property developed with tens of millions of dollars invested to date.

The project leader is Keith Benson, an expert in electronic payment systems and mobile transaction hardware, and the architect of Navy Cash, the first electronic payment system adopted by the U.S. government. The CDV technology offerings are protected by multiple granted patents and patents pending.

### **Keith Benson, Founder and CEO, CryptoData Vault LLC**

Keith Benson is an electronics and communications systems architect, inventor, and entrepreneur with over twenty-five years' experience in electronic payments and digital security. Mr. Benson conceived and developed Navy Cash, the first large-scale smart card payment system created for the U.S. Government. The system was built from scratch under Mr. Benson's oversight and was operational within 13 months. It is currently deployed throughout the U.S. Navy and Marine Corps.

### **T. Reid Lewis, Advisor-Business Operations, CryptoData Vault LLC**

T. Reid Lewis has almost three decades of experience leading technology enterprises. As such, he is a pioneering business leader with a proven track record for creating and driving new technology product lines internally and through co-innovation partnerships. He is a co-founder of the IoT sensor platform startup Proxidyne and founding CEO of GroupLogic, a B2B networking software firm, which generated nearly \$100M in revenue from its product lines. T. Reid served as GroupLogic's President until the enterprise was acquired by Acronis.

### **Tina Learned, Business Development Director, CryptoData Vault LLC**

Tina Learned is an exceptionally talented new business development executive with the ability to quickly understand the nature of one's businesses. Her expertise spans 16 years of business development via networking and executing new opportunities with

clear, concise, and understandable terms. Tina graduated from George Washington University in 1990.

**Carla Haight, VP Operations, CryptoData Vault LLC**

Carla Haight is an innovative and results-driven business operations and financial professional with over 28 years of experience in spearheading innovation within the realm of information technology. As the founder and CEO of PropNetUSA, she was responsible for running all facets of the business. Her prior experience includes being the Vice President of Business Development for MicroLink, an Information Technology and Services company in Vienna, Virginia USA. She brings an abundance of personality and loves to share a good laugh.

**Jim Wrathall, Attorney, K&L Gates**

Jim Wrathall is a counsel with the law firm of K&L Gates, LLP in Washington, D.C. He represents clients in energy and technology project development and finance transactions, including mergers and acquisitions, licensing transactions, business strategy and structuring, and related policy and governance matters.

## Legal Disclosures

This document is a white paper and business model overview setting out the current and future developments of the CryptoData Vault technology. This document is not a disclosure document. This document is specifically provided to the receiving party (Recipient) for the purpose of evaluating the opportunity to purchase SOV tokens only in private secondary market transactions. CryptoData Vault (the Company) is not selling or offering for sale or distribution SOVs or any other token or any security.

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- Token buyers are not investors, and the token is not an investment or security.
- The SOV token is an application (utility) token.
- SOV token holders have no limitations in selling tokens to other users.
- SOV token holders will not receive any dividends.
- The SOV token is not a bond, as the issuer does not pay interest to token holders.

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