

# Mastering

# Storage Security



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# Custodial, Depository, and Commingled vs. Segregated Storage Security

- **Custodial storage means a third party controls your crypto** — you hold a claim, not the asset itself, which creates grave legal and financial risk if that party fails.
- **Segregated storage gives you a legal firewall** that commingled accounts simply cannot match, especially during a depository insolvency event.
- **The FTX collapse in 2022 is the clearest real-world example** of what custodial risk looks like when it goes wrong — and the numbers are staggering.
- **Cold wallets like the Ledger Nano X and Trezor Model T** eliminate online attack vectors, making them non-negotiable above certain portfolio thresholds.
- **Your storage choice should match your risk exposure, not just your balance** — keep reading to find out which tier actually fits your situation.

The storage decision you make today could be the difference between recovering your assets in a crisis and losing them permanently.

Most crypto investors spend weeks researching which coins to buy and about ten minutes thinking about where to store them. That imbalance is exactly how billions of dollars in digital assets have been lost, frozen, or legally seized during exchange collapses. [GoldIRAPath](#) covers this intersection of asset security and ownership law in depth, and the principles apply just as powerfully to crypto as they do to precious metals.

## Your Crypto Storage Choice Determines Your True Ownership

Where you store your crypto is not just a logistical question — it is a legal one. The structure of your storage arrangement determines whether you are the actual owner of your digital assets or simply a creditor with a claim against a company that holds them on your behalf.

## What “Not Your Keys, Not Your Coins” Actually Means

This phrase gets repeated constantly in crypto circles, but its legal weight is rarely explained clearly. When you do not hold the private keys to a wallet, you do not control the asset. You control a *promise* from whoever holds those keys that they will honor your balance. That promise is only as good as the financial health and honesty of the entity making it.

Private keys are cryptographic strings that authorize transactions on a blockchain. The blockchain does not know your name or your account number — it only recognizes the key. Whoever holds the key moves the coins. It is that simple, and that unforgiving.

## How Custodial Storage Works and Who Controls Your Assets

A custodial storage arrangement means you deposit crypto with a platform — typically a centralized exchange like Coinbase, Kraken, or Binance — and they hold the private keys

on your behalf. Your account dashboard shows a balance, but that number is an internal database entry maintained by the exchange, not a direct blockchain record tied to your identity. The actual crypto sits in wallets controlled entirely by the platform.

## The Legal Difference Between Holding Crypto and Owning Crypto

This distinction becomes devastating in a bankruptcy scenario. Under most jurisdictions, when you deposit assets with a custodian that commingles them with other customer funds, you become an **unsecured creditor** in the event of insolvency. You are not a secured owner retrieving your property — you are in line with everyone else hoping the liquidation covers your claim.

The legal outcome depends heavily on how the custodian structured its accounts and what the bankruptcy court determines about asset ownership. In practice, this has meant frozen withdrawals, months or years of legal proceedings, and significant haircuts on recovered amounts.

- **Secured owner:** You hold the private keys or your assets are legally segregated — you retrieve your property directly.
- **Unsecured creditor:** Your assets are commingled — you file a claim and wait for court proceedings to determine recovery.
- **Practical implication:** The FTX bankruptcy left over one million creditors as unsecured claimants against a massively insolvent estate.
- **Key legal trigger:** Whether assets are *segregated* or *commingled* is often the deciding factor in how courts treat customer claims.

Understanding this legal framework is not paranoia — it is the foundation of making an informed storage decision for any serious portfolio.

## Custodial Storage: Convenience With a Hidden Cost

Custodial platforms exist because they solve real problems. Onboarding is simple, interfaces are clean, and customer support exists when things go wrong. For someone buying \$200 of Bitcoin for the first time, a custodial exchange is a reasonable starting point. The hidden cost only becomes visible when something goes wrong at scale.

## How Exchanges Like Coinbase and Binance Hold Your Funds

Major exchanges typically use a combination of hot wallets and cold storage internally. Coinbase, for example, has publicly stated that approximately 98% of customer funds are held in offline cold storage, with a small percentage kept in hot wallets to cover daily withdrawal demand. Binance uses a similar structure through its Secure Asset Fund for Users (SAFU), a self-insurance reserve funded by trading fees.

The critical detail is that these are institutional-level decisions made entirely by the exchange. You have no visibility into, or control over, how your specific funds are allocated

between hot and cold storage at any given moment. You are trusting their internal security posture completely.

## **What Happens to Your Crypto if an Exchange Goes Bankrupt**

When a centralized exchange files for bankruptcy, an automatic stay goes into effect. That legal mechanism immediately halts all withdrawals, transfers, and distributions. Your account balance becomes frozen, and the assets are placed under the jurisdiction of a bankruptcy trustee whose job is to manage the estate — not to prioritize your recovery timeline.

The speed of that freeze matters enormously. When Celsius Network halted withdrawals in June 2022, users had no warning. Accounts were locked within hours of the announcement, trapping approximately \$4.7 billion in customer assets inside a collapsing platform.

## **The FTX Collapse: What Custodial Risk Looks Like in Practice**

FTX is the defining case study for custodial risk in the modern crypto era. At its peak, FTX was the second-largest crypto exchange in the world by volume, trusted by millions of retail and institutional investors. When it collapsed in November 2022, the scale of the damage was extraordinary.

The core problem was not a hack or a technical failure. FTX's sister company, Alameda Research, had been using customer funds deposited on the exchange for its own trading and investment activities. Customer assets that users believed were safely held in segregated accounts had been quietly commingled and deployed as operating capital.

When a leaked balance sheet revealed Alameda's insolvency in early November 2022, a bank run began. FTX processed approximately \$6 billion in withdrawal requests in a 72-hour window before halting all withdrawals entirely. The exchange filed for Chapter 11 bankruptcy on November 11, 2022, with a reported shortfall of between \$8 billion and \$10 billion in customer funds.

The bankruptcy proceedings revealed over one million creditors with claims against the estate. Initial recovery estimates were deeply uncertain, and most creditors faced years of legal proceedings before seeing any return. Founder Sam Bankman-Fried was later convicted on seven counts of fraud and conspiracy.

## The FTX Collapse by the Numbers

Metric	Figure
Date of bankruptcy filing	November 11, 2022
Estimated customer fund shortfall	\$8 billion – \$10 billion
Withdrawal requests in the final 72 hours	~\$6 billion
Number of creditors	Over 1 million
Legal outcome for founder	Convicted on 7 counts of fraud and conspiracy

## Non-Custodial Storage Puts You in Full Control

Non-custodial storage means you hold the private keys yourself. No exchange, no third party, no intermediary. The trade-off is that the full weight of security responsibility shifts entirely to you — but for anyone holding meaningful value in crypto, that trade-off is worth understanding deeply.

The blockchain does not distinguish between a sophisticated institutional trader and a first-time user. If your keys are compromised, your funds are gone. If you lose your keys with no backup, your funds are gone. Non-custodial storage demands a level of operational discipline that custodial platforms conveniently remove — which is precisely why so many investors underestimate how important it is.

There are two primary categories of non-custodial storage: hot wallets and cold wallets. The difference comes down to internet connectivity, and that single variable has massive security implications.

## Hot Wallets vs. Cold Wallets: The Core Difference

A hot wallet is any wallet that maintains an active connection to the internet. MetaMask, Trust Wallet, and Exodus are common examples. They are convenient for frequent transactions and DeFi interactions, but their persistent online status makes them permanently exposed to phishing attacks, malware, and browser-based exploits. Hot wallets are best suited for small amounts you actively use — think of them as a checking account, not a savings vault.

## Hardware Wallets: Ledger and Trezor Compared

Cold wallets solve the internet exposure problem by keeping private keys completely offline. Hardware wallets are the most practical form of cold storage for individual investors, and two devices dominate the market: the **Ledger Nano X** and the **Trezor Model T**. Both generate and store private keys in a secure chip that never exposes them to a connected device, even during transaction signing.

The differences between these two devices matter depending on your specific setup. The Ledger Nano X uses a Bluetooth connection for mobile use and supports over 5,500

cryptocurrencies, with a secure element chip (ST33) rated CC EAL5+ for tamper resistance. The Trezor Model T uses a touchscreen interface and is fully open-source — every line of firmware code is publicly auditable on GitHub. Ledger's closed-source secure element has drawn scrutiny from the security community, while Trezor's open-source approach sacrifices some physical tamper resistance. Neither is perfect, but both are dramatically more secure than any hot wallet solution.

## Seed Phrase Security: The One Thing You Cannot Afford to Get Wrong

Every hardware wallet generates a seed phrase during setup — typically 12 or 24 randomly generated words in a specific order. This phrase is the master key to every wallet and every asset associated with that device. If your hardware wallet is lost, destroyed, or stolen, the seed phrase is the only way to recover your funds.

The most common and catastrophic mistake investors make is storing their seed phrase digitally. Screenshots, cloud notes, email drafts, and password managers are all attack vectors. A seed phrase stored in Google Drive or iCloud is functionally a hot wallet — any breach of those accounts exposes your entire portfolio. The seed phrase must be written on paper or stamped into metal and stored physically in a secure location, completely offline.

For high-value portfolios, a single physical copy is insufficient. Consider a **Cryptosteel Capsule** or **Bilodeau Crypto Steel Plate** for fireproof, waterproof seed phrase storage, and maintain copies in at least two geographically separate secure locations. Some investors use a safety deposit box as a secondary storage point, though this introduces a degree of third-party dependency. The point is to treat your seed phrase with the same physical security discipline you would apply to a bearer bond or a property deed.

## Segregated vs. Commingled Storage in Crypto Depositories

For investors who need institutional-grade infrastructure — particularly those with large holdings, business accounts, or assets held within retirement vehicles — third-party crypto depositories offer a middle ground between full self-custody and traditional exchange custody. The critical distinction within this category is whether your assets are held in **segregated** or **commingled** storage, and this choice has direct legal and financial consequences.

### What Segregated Storage Actually Means for Digital Assets

Segregated storage means your assets are held in wallets specifically designated to you — separate blockchain addresses, separate private key management, and a direct one-to-one correspondence between your account and the actual on-chain assets backing it. You can verify your holdings independently on the blockchain using your assigned wallet addresses. No other client's assets occupy the same wallets. In a legal dispute or insolvency proceeding, your assets are identifiable as your property, not as a pool of assets divided proportionally among creditors.

## How Commingled Storage Pools Create Counterparty Risk

Commingled storage aggregates multiple clients' assets into shared wallets. The depository tracks ownership through an internal ledger — your balance is a database entry rather than a specific set of on-chain wallets. This is operationally efficient and typically less expensive, but it introduces counterparty risk that segregated storage eliminates. If the depository's internal records are inaccurate, manipulated, or disputed in court, your ability to claim specific assets becomes dependent on that institution's integrity and solvency — which is precisely the risk you were trying to avoid by leaving a centralized exchange in the first place.

## Bankruptcy Protection: Why Segregated Storage Wins in a Crisis

The legal protection gap between segregated and commingled storage becomes most visible in a bankruptcy scenario. When assets are held in [segregated wallets](#), a strong argument exists that those assets are your property held in trust — not assets of the depository's estate. Courts in multiple jurisdictions have recognized this distinction, and it can mean the difference between retrieving your assets quickly and spending years as an unsecured creditor in a liquidation proceeding.

Commingled storage customers face a fundamentally different legal position. Because their assets are pooled, the bankruptcy trustee treats the entire pool as a single asset to be distributed proportionally. If the depository had shortfalls, mismanagement, or leveraged customer assets for operational purposes — a pattern seen repeatedly in crypto firm collapses — commingled customers absorb those losses proportionally. Segregated customers with properly documented, on-chain verifiable holdings have a much stronger basis for full recovery.

## Fee Differences Between Segregated and Commingled Accounts

Segregated storage costs more because it requires dedicated wallet infrastructure, individualized key management, and more complex operational overhead. At institutional crypto depositories, the fee premium for segregated over commingled storage typically ranges from 0.1% to 0.3% of assets under custody annually, though this varies significantly by provider and asset type. For a \$500,000 portfolio, that translates to roughly \$500 to \$1,500 per year in additional fees.

That cost calculation should be framed correctly. The question is not whether segregated storage is expensive — it is whether the legal protection it provides is worth the fee differential given your portfolio size and risk tolerance. For most investors holding six figures or more in crypto through a depository structure, the answer is clearly yes. The fee is insurance against a low-probability but catastrophic outcome.

## How to Choose the Right Storage Based on Your Portfolio Size

Storage decisions should scale with what is at stake. The right approach for someone holding \$500 in crypto on a mobile app is completely different from what a \$250,000 portfolio demands. Here is a practical framework that matches security infrastructure to portfolio size.

### **Under \$10,000: Custodial or Hot Wallet Is Acceptable**

At this level, the convenience of a custodial exchange or a reputable hot wallet is a reasonable trade-off. The risk exists, but the absolute dollar exposure is manageable relative to the complexity of self-custody. If you use a custodial exchange, prioritize platforms with proof-of-reserves attestations — Kraken and Coinbase both publish regular third-party audits. Enable two-factor authentication using an authenticator app (not SMS), and never store more on an exchange than you are willing to lose in a worst-case scenario.

If you prefer a hot wallet at this level, MetaMask combined with a hardware wallet signing device is a significant step up from pure software custody. You get the interface convenience of a hot wallet with the key security of a cold storage device.

### **\$10,000–\$100,000: Cold Storage Becomes Non-Negotiable**

Once your portfolio crosses five figures, the risk profile of custodial and hot wallet storage becomes difficult to justify. A Ledger Nano X retails for approximately \$149, and a Trezor Model T for approximately \$219 — a one-time cost that provides dramatically superior security for a portfolio of this size. Set up the device using a clean, air-gapped computer where possible, generate your seed phrase offline, and store it using one of the fireproof metal backup solutions mentioned earlier. At this level, the hardware wallet should hold the majority of your holdings, with only active trading amounts kept on an exchange.

### **Over \$100,000: Segregated Depository Storage Deserves Serious Consideration**

Six-figure and above crypto holdings introduce risks that personal hardware wallets, while excellent, were not designed to fully address. Single points of failure — one device, one seed phrase location, one person managing access — become unacceptable at this scale. Institutional custodians and depositories offering segregated storage provide multi-signature wallet architecture, geographically distributed key shards, SOC 2 Type II compliance, and insurance coverage that individual hardware wallets simply cannot replicate.

Providers like Anchorage Digital, BitGo, and Coinbase Custody offer segregated institutional accounts with insurance coverage that scales with your holdings. At this portfolio level, the annual fee for segregated depository custody should be treated as a non-negotiable line item, not an optional upgrade.

### **Institutional-Grade Security Features Worth Paying For**

Not all institutional custody is created equal. The gap between a credible, audited depository and one that simply markets itself as secure can be enormous, and the features that separate them are specific, verifiable, and worth understanding before you commit your assets to any third-party storage arrangement.

When evaluating institutional crypto custody providers, the security infrastructure around the physical and digital environment matters as much as the legal structure of your account. These are the specific features that define genuinely institutional-grade protection.

### **Class 3 Vault Standards and What They Protect Against**

Class 3 vault ratings are defined by standards bodies, including Underwriters Laboratories (UL) and the European equivalent EN 1143-1. A UL Class 3 vault is tested to resist a sustained attack by a team of professionals using power tools, cutting equipment, and high-heat tools for a minimum of 30 man-minutes. For crypto hardware storage — where the target is physical access to key management hardware or signing devices — this physical resistance layer is a genuine deterrent. Depositories that store private key material in Class 3 or higher-rated environments are providing a level of physical security that no home safe or office setup can approach.

### **Lloyd’s of London Insurance Coverage for Stored Assets**

Lloyd’s of London is the benchmark insurer for high-value asset custody, and its involvement in a crypto depository’s insurance program is a meaningful signal of institutional legitimacy. Lloyd’s syndicates underwrite coverage for physical theft, insider theft, destruction of key material, and, in some policies, certain categories of cyberattack. The presence of a Lloyd’s-backed policy means the depository has passed a rigorous underwriting review — insurers at this level do not write policies for operations with material security gaps.

### **What to Look for in Depository Insurance Coverage**

<b>Coverage Type</b>	<b>What It Protects</b>	<b>Why It Matters</b>
<b>Specie insurance</b>	<b>Physical theft of stored assets or key material</b>	<b>Covers loss from external break-in or robbery</b>
<b>Crime/fidelity coverage</b>	<b>Employee theft or insider fraud</b>	<b>Directly relevant to custodial risk scenarios</b>
<b>Cyber liability coverage</b>	<b>Losses from digital attack vectors</b>	<b>Critical for hot wallet or hybrid custody environments</b>
<b>Errors and omissions (E&amp;O)</b>	<b>Operational mistakes by the depository</b>	<b>Covers procedural failures, not just malicious acts</b>
<b>Excess coverage limits</b>	<b>Coverage beyond base policy limits</b>	<b>Essential for high-value segregated accounts</b>

Always request a certificate of insurance and confirm that coverage limits are sufficient to cover your specific holdings. A depository that advertises insurance but caps coverage at \$250,000 across all clients provides negligible protection for a large individual account. Coverage should be per-client and clearly documented in your custody agreement.

One additional detail worth pressing on: whether the policy covers assets in transit. When crypto is moved between wallets — during rebalancing, distribution events, or account transfers — it can fall outside the coverage window of a static storage policy. Confirm explicitly whether your custody agreement includes in-transit coverage or whether that gap requires a separate rider.

## Third-Party Audits: How to Verify a Depository Is Legitimate

Self-reported security claims mean nothing without independent verification. The two most important audit frameworks for crypto custodians are **SOC 2 Type II** reports and **proof-of-reserves attestations**. A SOC 2 Type II audit, conducted by an independent CPA firm under AICPA standards, evaluates a company's security, availability, processing integrity, confidentiality, and privacy controls over a sustained period — typically six to twelve months. Unlike a Type I audit that captures a single point in time, a Type II audit demonstrates that controls are operating consistently. Always request the full report, not a summary letter.

Proof-of-reserves attestations use cryptographic verification — specifically Merkle tree proofs — to demonstrate that a custodian holds on-chain assets equal to or greater than its total client liabilities. Exchanges and depositories, including Kraken, Bitfinex, and OKX, have published Merkle tree-based proof-of-reserves. When combined with a liability attestation from an independent auditor, this gives you mathematical evidence that your balance is backed by real on-chain assets. If a depository cannot or will not provide either a SOC 2 Type II report or a cryptographically verifiable proof-of-reserves, that absence is itself a decisive signal.

## The Right Storage Tier Matches Your Risk, Not Just Your Balance

The framework here is straightforward: match your storage infrastructure to the consequences of a failure, not just the size of your balance. A \$50,000 portfolio held by someone with no other liquid assets demands the same cold storage discipline as a \$500,000 account. A \$150,000 allocation inside a diversified institutional portfolio might tolerate a different risk structure.

What matters is the irreplaceability of the capital, the verifiability of your custody arrangement, and whether your current setup would survive the specific failure modes — exchange collapse, hardware loss, seed phrase exposure, or depository insolvency — that have already destroyed real portfolios at scale. Get that alignment right, and your storage decision becomes one of the strongest risk management moves you can make in crypto.

## Frequently Asked Questions

These are the questions that come up most often when investors start taking storage security seriously. The answers are direct and based on how these systems actually behave under stress.

### What is the safest way to store large amounts of cryptocurrency?

The safest approach for large crypto holdings combines segregated institutional custody with multi-signature wallet architecture. Providers like [Anchorage Digital](#), BitGo, and Coinbase Custody offer SOC 2 Type II-audited, segregated accounts with insurance coverage and multi-party computation (MPC) key management that eliminates single points of failure. For self-custody components, a hardware wallet like the Ledger Nano X or Trezor Model T with a fireproof, geographically distributed seed phrase backup provides strong individual-level security.

The key principle is eliminating single points of failure at every layer. No single device, no single location, no single person with unilateral access to the full key material. The most secure setups use a combination of institutional segregated custody for the majority of holdings and personal cold storage for a smaller, actively managed portion.

### Is custodial storage ever a smart choice for serious investors?

Custodial storage through regulated, audited exchanges can be a practical choice for specific use cases — active trading, small position sizes, or assets held temporarily during a transaction. The key word is *temporary*. Leaving significant long-term holdings on a custodial exchange because it is convenient is a risk-management failure, not a strategy. Even the most reputable exchanges carry counterparty risk that self-custody and segregated depository storage eliminate.

If you use custodial storage, prioritize exchanges with published SOC 2 Type II reports, proof-of-reserves attestations, and regulatory licensing in your jurisdiction. Coinbase holds a BitLicense in New York and is publicly listed, which subjects it to SEC reporting requirements — a level of regulatory oversight that most custodial platforms lack. That oversight does not eliminate risk, but it meaningfully changes the risk profile compared to unregulated alternatives.

### What happens to my crypto in commingled storage if the depository fails?

In a depository insolvency, commingled storage customers become unsecured creditors of the estate. The bankruptcy trustee takes control of the pooled wallets and manages distribution through court proceedings. If the depository's internal records are accurate and the total assets cover total liabilities, recovery may approach 100% — but the process takes months to years, and your funds are frozen throughout. If there were short-

falls, misappropriation, or leveraged use of customer assets, recovery will be proportionally reduced across all commingled account holders.

This is not a hypothetical scenario. The Celsius Network bankruptcy demonstrated exactly this dynamic. Celsius had commingled customer assets and deployed them in yield-generating strategies. When those strategies failed, the resulting shortfall was absorbed by all customers proportionally. Customers who had been earning yield on their crypto holdings found themselves as unsecured creditors in a Chapter 11 proceeding, with recovery uncertain and timelines measured in years, not weeks.

## Do hardware wallets like Ledger fully eliminate custodial risk?

Hardware wallets eliminate *third-party* custodial risk — no exchange, no depository, no counterparty can access or freeze your assets if you hold your own keys on a properly configured hardware device. However, they introduce a different category of risk: **self-custody operational risk**. Lost seed phrases, damaged devices without backups, physical theft of both the device and the seed phrase backup, and sophisticated phishing attacks targeting the signing process are all real failure modes that hardware wallets do not eliminate — they simply transfer responsibility for managing those risks from an institution to you.

The Ledger Nano X's secure element chip and the Trezor Model T's open-source firmware both provide strong protection against remote attacks. Neither protects against a \$5 wrench attack — the informal term for physical coercion. At very high portfolio values, the personal security implications of self-custody become a genuine consideration. Institutional segregated custody with multi-party authorization requirements distributes that risk across multiple people and locations in a way that individual hardware wallets cannot replicate.

## Is segregated crypto storage the same as segregated precious metals storage?

The legal principle is identical, but the implementation differs significantly. In precious metals storage — particularly for Gold IRAs held at IRS-approved depositories — segregated storage means your specific, identified bars or coins are physically separated from other clients' holdings in a dedicated vault section, labeled with your account information. You get back the exact pieces you deposited. Commingled precious metals storage holds your assigned weight in a shared pool, and you receive equivalent pieces — same weight, same purity — rather than your original items.

In crypto, segregated storage means your assets are held in dedicated blockchain wallet addresses under your account, with no other clients' funds occupying those same wallets. The on-chain verifiability of crypto actually makes segregation easier to audit than physical metals — you can independently verify your wallet balance on a public blockchain explorer in real time. Commingled crypto storage, like its precious metals equivalent, re-

lies on the depository's internal bookkeeping rather than a directly verifiable one-to-one asset mapping.

Both asset classes share the same core legal risk in a commingled structure: insolvency converts you from a property owner to an unsecured creditor. The principle that drives experienced investors toward segregated storage in precious metals — legal firewall, identifiable ownership, bankruptcy protection — applies with equal force to institutional crypto custody. The asset class is different; the ownership law is not. Understanding that parallel is one of the more useful frameworks for evaluating any third-party custody arrangement, whether the underlying asset is gold or Bitcoin.