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CRYPTOCURRENCY INVESTIGATION REPORT

PREPARED FOR: [Client]

[Date]

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Inside This Report

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Executive Summary

This report presents a comprehensive investigative analysis of bitcoin holdings originally stored in a **[Type]** hardware wallet belonging to the late **[Name]** ("**[Name]**"). The **[Name]** Estate ("Estate"), represented by the deceased's parents, **[Client]**, seeks to recover these assets from regulated exchanges where the assets were transferred and may currently reside.

The probate process has been completed, and a death certificate is available to support the Estate's claim.

Key findings from our cryptocurrency investigation include:

- The bitcoin holdings were successfully traced from the deceased's **[Type]** device to multiple regulated cryptocurrency exchanges using attribution data from our data partner, **[Vendor]**;
- Transactions leading to these exchanges are verifiable on the blockchain; and
- No obfuscation techniques, such as mixers or coinjoins, were used to conceal the movement of assets.

We respectfully request the compliance teams at the identified exchanges verify the presence of the traced assets and advise on the Estate's process for accessing them.

How To Use This Report

This report summarizes the transaction activity on **[Name]**'s wallet and follows subsequent transactions through to identified centralized exchanges. The investigation was conducted exclusively on transaction data provided by the Estate, with no external transactions beyond this scope analyzed.

To determine the destination of assets and identify potential asset holders, Collisionless applied industry-standard blockchain forensic heuristics, as outlined in the *Blockchain Analysis* section of this report. These heuristics help Collisionless trace the flow of assets, identify wallet ownership, and uncover potential exposure to regulated exchanges that may cooperate with the Estate.

Below is a complete list of files that are included in the Estate's submission, in addition to this report, ***[File Name]***.

1) *[File Name]*
2) *[File Name]*
3) *[File Name]*
4) *[File Name]*
5) *[File Name]*
6) *[File Name]*
7) *[File Name]*

Note that only transactions related to a centralized exchange are analyzed on Tab 2 of file *[File Name]* and included in this report.

Background

The late **[Name]** held cryptocurrency in a **[Type]** hardware wallet, which is now in the possession of the Estate's representatives, **[Client]**. Following his passing, the Estate initiated efforts to locate and recover these assets in accordance with legal probate procedures.

On **[Date]**, **[Client]** entered into an agreement with Collisionless to obtain a cryptocurrency investigation report. Collisionless is a Web3 professional firm specializing in the digital asset economy. Our firm has worked with governments, financial regulators, law enforcement agencies and exchanges worldwide on cryptocurrency forensic investigations to analyze and combat money laundering and other financial crimes, human trafficking, child exploitation and terrorist financing.

Collisionless is a vetted investigative partner of **[Vendor]**, a globally recognized provider of blockchain attribution data. The **[Vendor]**toolset is used by governments, law enforcement agencies, regulators and virtual asset service providers worldwide for anti-money laundering compliance and investigative purposes.

Methodology

Our cryptocurrency investigation was conducted using industry-leading blockchain analysis tools and best-practice tracing methodologies. The following approach was applied:

- **[Wallet type] identification:** confirmed wallet addresses associated with the deceased's **[Type]** device;

- **Transaction tracing:** leveraged the **[Vendor]** blockchain analysis tool to generate a transaction graph to plot transactions from the **[Type]** wallet to exchange deposit addresses; and
- **Exchange identification:** identified recipient exchanges through known deposit addresses and on-chain heuristics using **[Vendor]** attribution data.

Blockchain Analysis

Blockchain, as the underlying technology for virtual assets and cryptocurrencies, stands as a revolutionary cryptographic distributed ledger system known for its transparency, security, and immutability. The key attributes that make blockchain records indisputable evidence of activity include:

Immutability

Once a transaction is recorded on the blockchain, it becomes a permanent part of the distributed ledger. The decentralized and distributed nature of a blockchain ensures that once a block is added to the chain, it becomes computationally infeasible to alter or delete. This immutability provides a strong foundation for the integrity of recorded transactions.

Decentralization

Blockchain operates on a decentralized network of nodes, each maintaining a copy of the entire ledger. This decentralization eliminates the need for a central authority and minimizes the risk of tampering or manipulation. Changes to the blockchain require consensus among network participants, making unauthorized alterations practically impossible.

Transparency

All transactions on the blockchain are visible to every participant in the network. This transparency ensures that anyone can independently verify the details of a transaction by examining the blockchain. The openness of the ledger promotes trust among users and stakeholders.

Timestamping

Each transaction on the blockchain is timestamped, providing a chronological order of events. This timestamping mechanism ensures that the sequence of transactions is clear and unambiguous—a critical factor in establishing the timeline of activities.

Blockchain analysis involves the meticulous examination, identification, clustering, modeling, and visual representation of data embedded in the blockchain. The overarching objective of this analytical process is to unveil valuable insights into the activities of various entities engaging in blockchain-based transactions. Our approach to blockchain analysis centers on extracting meaningful information to enhance our understanding of the dynamics within the virtual asset landscape.

For the analysis contained herein, we examine cryptocurrency transfers from the deceased's **[Type]** wallet on the bitcoin blockchain.

Blockchain Analytics Software

While blockchain records offer indisputable transactional evidence, the true richness of insights is unlocked through sophisticated blockchain analysis tools. These tools systemically gather and analyze transactional information and augment this data with additional, off-chain data sources to deliver context that enhances our understanding of these transactions.

Address Attribution

Blockchain analysis tools can attribute addresses to specific entities, including Virtual Asset Service Providers ("VASPs"). Vendors specializing in blockchain analytics achieve this by systematically profiling VASPs they intend to monitor.

To establish attribution, vendors first create accounts with targeted VASPs, allowing them to experience the onboarding process firsthand. This enables an assessment of the rigor and effectiveness of the VASP's customer due diligence ("CDD") and identity verification controls. Once an account is activated, the vendor funds the account and initiates transactions through the VASP, recording the resulting blockchain activity.

This structured engagement establishes a clear and verifiable link between the VASP and its associated deposit and withdrawal addresses. This forms the foundation for subsequent analysis.

Other data collection techniques used by blockchain analysis tools include establishing accounts on dark marketplaces and gambling websites, infecting virtual machines with ransomware, proactive engagement with law enforcement agencies, conducting transactions in person at Bitcoin ATMs and working directly with VASPs to attribute their addresses.

Address Clustering

Address clustering involves categorizing the observed set of addresses in virtual asset transactions into distinct subsets, each likely controlled by the same entity, resulting in what is known as an address cluster or wallet. This process becomes highly effective when complemented with external (off-chain) data, associating real-world identities with addresses, and graph analysis.

Together, these techniques form a powerful method for analyzing virtual asset activity, offering insights at both micro and macro levels of granularity. As this comprehensive mapping extends beyond individual addresses, the entirety of the VASP's wallet infrastructure can be captured.

Flow of Assets

By analyzing the flow of assets between addresses, we gain insights into the movement of assets between counterparties within the cryptocurrency ecosystem. This information helps us track assets transfers and identify potential connections between VASPs and other entities.

Behavioral Analysis

Sophisticated tools employ behavioral analysis to understand how entities interact with the blockchain. This includes identifying transaction patterns, anomalies, and withdrawal behaviors that indicate non-compliance with regulatory measures.

Risk Assessment

Blockchain analysis tools assess the risk associated with specific addresses or transactions. This risk assessment includes factors such as involvement in illicit activities, association with darknet markets, or connections to entities with questionable compliance histories.

Heuristics Applied to Draw Conclusions

Blockchain forensics employs several heuristic rules to analyze and trace cryptocurrency transactions to the ultimate destination, wherever possible. Key examples includes:

1. **Co-spend heuristic:** this method identifies addresses that are likely controlled by the same entity by analyzing transaction inputs. When multiple addresses contribute inputs to a single transaction, it strongly suggests that a single party controls all those addresses, as signing the transaction typically requires access to all associated private keys.

2. **Deposit heuristic:** this technique identifies and clusters addresses of centralized services by tracing deposit addresses to consolidation addresses.

3. **Multi-input heuristic:** similar to co-spend, this heuristic assumes that addresses used as inputs in the same transaction are controlled by the same entity. Since most cryptocurrency transactions require the sender to sign for all inputs used, the presence of multiple input addresses strongly suggests that they share a common owner.

4. **Address reuse analysis:** this technique examines patterns of address reuse to link multiple transactions to a single entity.

5. **Behavioral clustering:** this heuristic detects patterns in transaction structure, timing, and behavior to infer common ownership or usage of specific wallet software or services. Investigators examine factors such as transaction frequency, output patterns, fee structures, and spending habits to cluster addresses that exhibit similar behavioral traits.

6. **Event-based heuristics:** these are used to cluster addresses associated with decentralized protocols on smart contract-enabled blockchains by monitoring specific events carried out by the protocol's factory contract.

7. **One-time change address detection:** this heuristic aims to identify change addresses by eliminating addresses that are later reused as non-change addresses.

8. **Peel Chain Detection:** a peel chain is a commonly-used technique where sums of digital assets are dispersed through a series of small, incremental transactions. Small amounts of cryptocurrency are "peeled off" from a primary wallet and sent to new addresses or cashed out at exchanges. An understanding of peel chains allows us to merge multiple incremental transactions conducted by the same party and cluster them together.

Transaction Summary

A list of 17 transactions were listed in the Estate's original submission to Collisionless (*[File name]*).

17 outgoing transfers totaling 25.16508 BTC, equivalent to a historical value of $237,969.19 USD were sent to external wallets as per the initial submission. The current total value of transfers based on the BTC-USD price of $**[Amount]** (at the time of publication on **[Date]**) is $**[Amount]** USD.

Summary of transaction data provided by the Estate:

Date	Timestamp	Amt in BTC	Historical USD Amt	Current USD Amt [Date]	Sending Wallet	Receiving Wallet	Tx ID
Feb 6, 2018	4:14 PM	0.15	$1,040.46	$**[Amount]**	3MJZJNodS3o8Tdptk3py2XQ4ztjegcZ8E6	3LX1q5QPo4YFppswzM7WVxcBKWdGnycSTP	f82a068e955b97b09af8298d49b289957853f643615daebf746c43c8b82c4e9c
Feb 13, 2018	12:10 PM	0.15	$1,336.68	$**[Amount]**	3PxD4EvLTqEmEgeJa7oGjdbd8mFAfksQPG	3JBFQZHGPbpHUNm1iCpMDJJvGj1JXixrLz	2d1e313f85add4fe6b192245c76e439f026fe121d3663844be93003b3ab6615b
Feb 17, 2018	4:21 AM	0.15	$1,528.31	$**[Amount]**	3PxD4EvLTqEmEgeJa7oGjdbd8mFAfksQPG	3J2eaKVvcFkPAWnnFjtYVZcfRiQiuLtknU (Coinbase)	0f3ff6f22e37b6b80b0c3ebbc9dee81312e8edd759f2ffa0e1181a263eceb74c
Mar 1, 2018	12:04 PM	0.15	$1,550.17	$**[Amount]**	3PxD4EvLTqEmEgeJa7	3MPDXH68UK	e45c20d040f59d96839

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Date	Time	Amount	Value	$[Amount]	From	To	Hash
					oGjdbd8mF AfksQPG	C1UDZ qNofjD RJHYA 6uktRS aC	ea2b804a1 d1c478105 80b9910de 0b51789d0 9d0a791e9
Mar 3, 2018	2:51 PM	0.026	$287.12	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	3JpGXA hSck9G v5jV6Lb qgcLdu dF9952 G6H	11a4cafdc8 8c5d9c300 6e47286f28 5ed83c84d 5897b98f4c a2b4e40de 9eda7c9
Mar 3, 2018	5:42 PM	0.00208	$23.01	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	1KHqQ qKudPD ADGNb NvvJv2 AMsLhe UGfCcp	3692cfdad6 30cd1cde2 aaa3b97e1 958176e5f0 6a84a3001 139441d62 2a844fd7
Mar 3, 2018	6:18 PM	8	$88,344.96	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	3AksBc XJd9d8 MTK3V LTgz12 7FfT5Y 8iEt2	9980f16d67 7405c131e c4d891aa0 32253c428 59e60ea7b 58b833f2f3 be9115b3
Mar 5, 2018	12:36 PM	0.365	$4,198.94	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	35N4ge R2xrwrn LrMZdc oFayUD vvCFua Lid	f82a068e95 5b97b09af8 298d49b28 9957853f64 3615daebf7 46c43c8b8 2c4e9c
Mar 7, 2018	2:32 PM	0.167	$1,792.82	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	32DFTJ CoPVm dhb3HX hwNtet HE79ys ranLv	901f20262f 716e52a34 468a1cb9d 54c31d496 0a1f218137 13c97a319 5f47c6d2
Mar 8,	10:23	8	$74,534.16	$[Amount]	3PxD4EvLT	39zY58	499dfe1c35

2018	PM					qEmEgeJa7 oGjdbd8mF AfksQPG	kWwbY h5qhUU LiBYVH suiFJC VmDSA	806c9618e 504a9f2341 5c2698675 0543c8f806 428de63aa efc8736
Mar 12, 2018	11:44 AM	0.25	$2,386.00	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	35N4ge R2xrwrn LrMZdc oFayUD vvCFua Lid	17e80580e a0c862fdd3 ba597e220 08e5f1a013 fd7dfd4f899 86d63bfb46 71cdb
Mar 28, 2018	2:25 PM	0.25	$1,952.11	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	3MPDX H68UK C1UDZ qNofjD RJHYA 6uktRS aC	35f4621379 e28e460b2 83cda7796 ce87c1cbb 41422d69fd fc2c1a5f8b a588b51
Apr 6, 2018	1:26 AM	0.01	$67.90	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	16bjwfh 8LFeyj GdWrB RtXt5q8 gevmfzy eV	d162a799cf ac60019eb ea0132fabe c783dd347 bd725bc13 be1ccdb9b d0a16d4d
Apr 9, 2018	10:57 AM	0.3	$2,114.98	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	3J2eaK VvcFkP AWnnFj tYVZcfR iQiuLtkn U	7b15e5ad5 bf9dfc6751 b6bd8e285 12330a8ed 3a49ee682 0fd6748d5c 5a6229d2
Apr 10, 2018	12:23 PM	0.2	$1,357.91	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	35N4ge R2xrwrn LrMZdc oFayUD vvCFua Lid	6f2647c6bc c6b2002f2f 96427c475 15695f6216 5634a167cf d3a1aac07 797968

Apr 13, 2018	4:35 PM	2.2	$17,441.01	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	3J2eaK VvcFkP AWnnFj tYVZcfR iQiuLtkn U	cc32b0249 5338b6714 4dd73db5b 63bc0e71b 444213431 4928cff3b7 a4e7d3bdf
Apr 13, 2018	4:39 PM	4.795	$38,012.67	$[Amount]	3PxD4EvLT qEmEgeJa7 oGjdbd8mF AfksQPG	31kudP ZezYkT YArCEu LUtz7T Tw8C9 WTTpp	08c3daccb bd5679c0d a7db40056 696d2d9d3 6f151f83b2 7eae16c58 55d4aa878
		25.16508	**$237,969.19**	**$[Amount]**			

Source Document: *[File name]* includes a detailed transaction summary and a breakdown of the destinations of assets.

Consolidated Transaction Graph

Figure 1: A comprehensive snapshot of every recorded transfer from **[Name]**'s **[Wallet type]**, via **[Vendor]**.

On-Chain Analysis and Findings

Our findings suggest that several outgoing transfers were ultimately sent to centralized services, namely Binance, Bittrex, Kraken, Bitfinex, and the now-defunct - Quadriga.
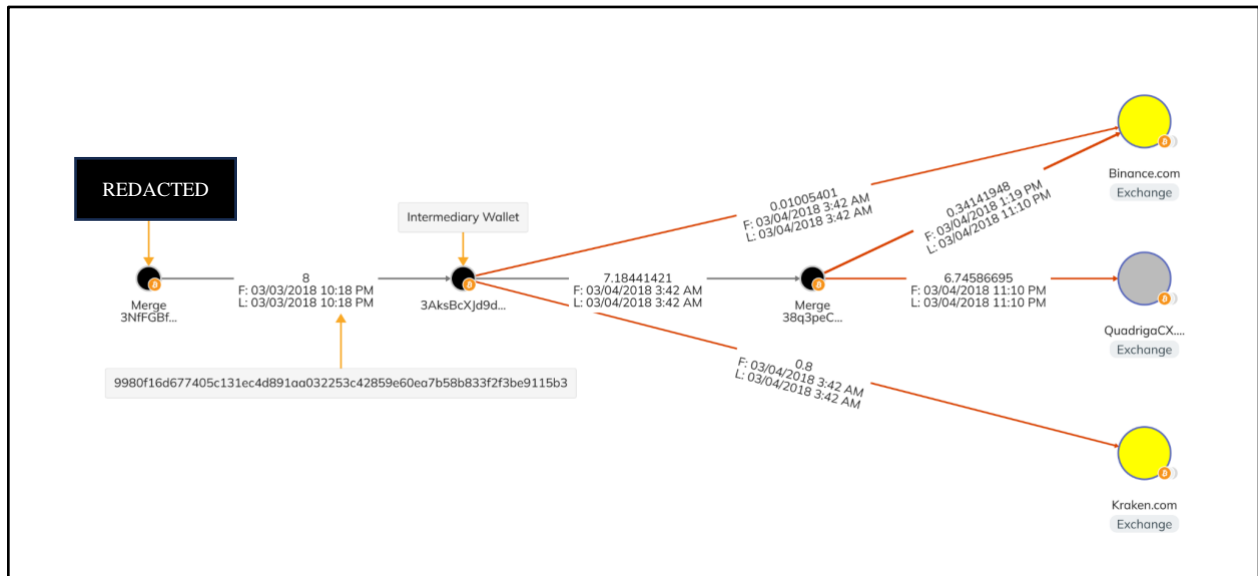
Figure 1a: BTC GRAPH: 8 BTC Mar 3, 2018 to 3Aks, destined for Binance, Quadriga and Kraken. Traced via **[Vendor]**.
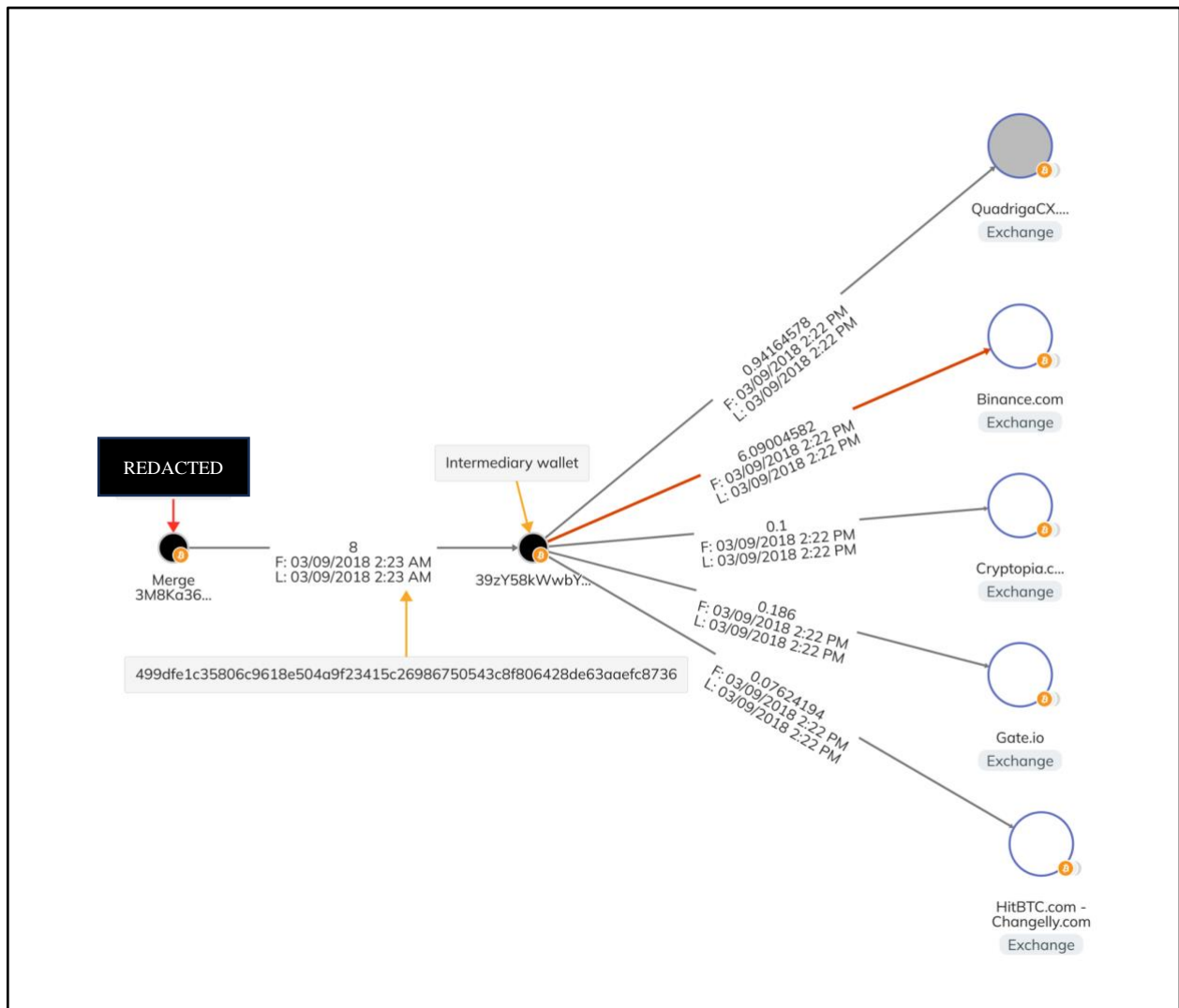
Figure 1b: BTC GRAPH: 8 BTC Mar 9, 2018 to 39zY, destined for centralized exchanges Binance, Gate.io, HitBTC and the now-defunct exchanges Quadriga and Cryptopia.co.nz. Traced via **[Vendor]**.
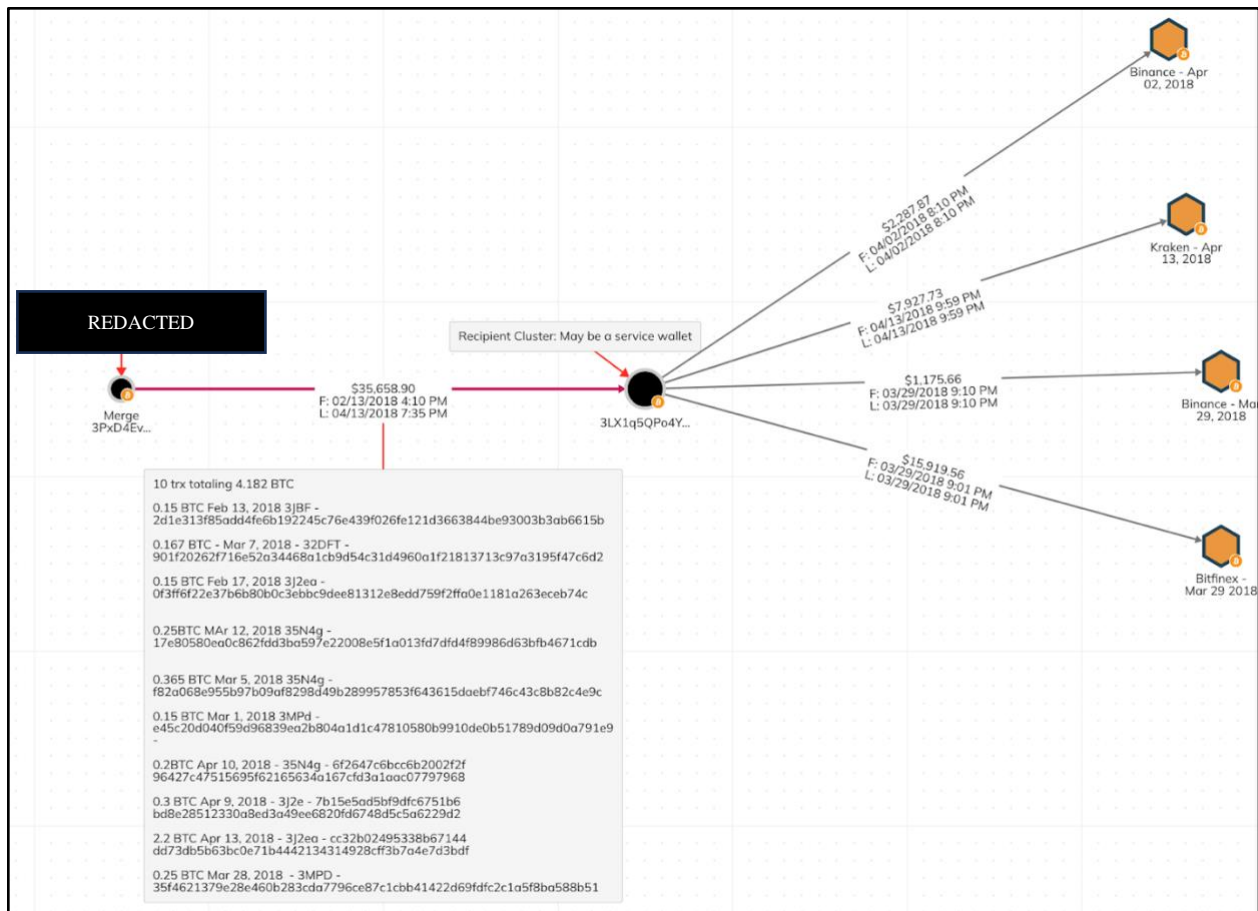
Figure 2a: USD Graph: 4.182 BTC - 10 transactions clustered, destined for Binance, Kraken, Bitfinex. Traced via **[Vendor]**.
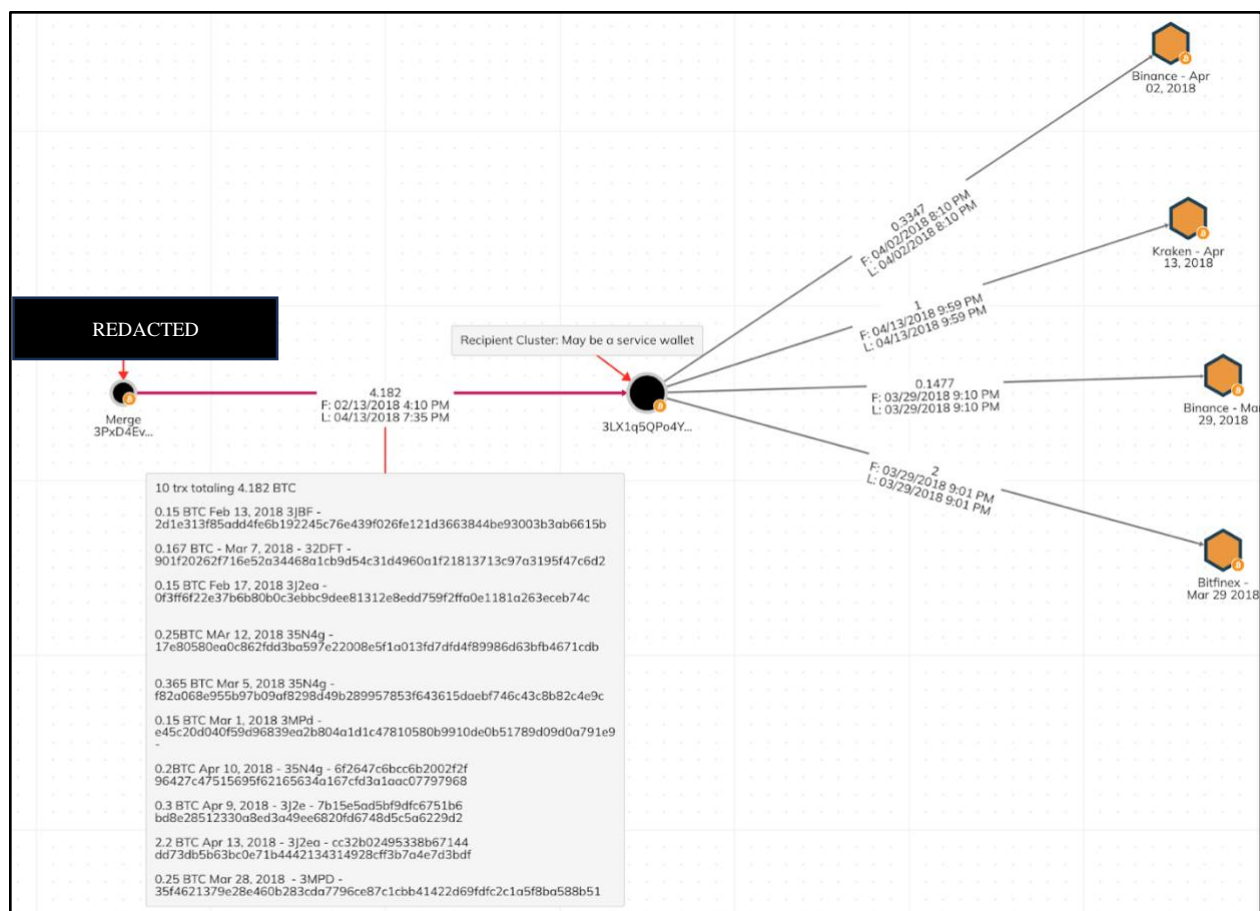
Figure 2b: BTC Graph: 4.182 BTC - 10 transactions clustered, destined for Binance, Kraken, Bitfinex, via **[Vendor]**.

Exchange Transactions and Current Holdings

Below is a summary of **[Name]**'s outgoing transfers through intermediary clusters that may have been associated with **[Name]**, and that ultimately sent assets to centralized exchanges. While blockchain analysis enables tracking of on-chain movements, it does not provide insights into activity *within* custodial exchanges.[1] These entities typically use hot wallets where client assets are comingled, and offline order books to record transactions within the exchange.

Using attribution data from **[Vendor]**, Collisionless has identified that **[Name]**'s assets were deposited into accounts at Bitfinex, Binance, and Kraken between **[Date]**, and **[Date]**, totaling **[Amount]** BTC (Figure 2a and 2b).

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[1] Why You Can't Trace Funds Through Services Using Blockchain Analysis (And Why You Don't Need to Anyway) https://www.chainalysis.com/blog/blockchain-analysis-trace-through-service-exchange/

The Estate seeks confirmation from these exchanges regarding the status of these assets and whether they were further transferred out of the deceased's exchange wallets.

Since centralized exchanges maintain internal order books and records that are not reflected on-chain, we request that the compliance teams at the listed exchanges:

(1) Verify whether the deceased's accounts remain active and, if not, whether the assets were withdrawn to external wallets;

(2) Confirm the account history and provide any transaction logs that may assist in tracking the assets beyond the exchange environment if necessary; and

(3) Reconcile the provided transaction IDs and receiving wallet addresses with internal records to determine any subsequent movements.

Transaction Summary with [Vendor] Attribution Data:

Date	Timestamp	Amt in BTC	Historical USD Amt	Provided Tx ID	[Name]'s Originating Wallet	Recipient Exchange Wallet	Tx ID	[Vendor] Attribution
Feb 6, 2018	4:14 PM	0.15	$1,040.46	fb21dae740d128655165fa8c123ff45b841778989b3f3f5fd3f07c038ad5e2ef	3Qw9YM7J3KreNc5yejWh3JJJpbAUV3DuBE	36cVBCR87SycTH2F5H7AE7EkQi3zNBPhBx	a9fe3daf4875a0b64667978cbaf7d403e0f0607f63367c1b1a5ae29886ed7413	Bitfinex
Feb 13, 2018	12:10 PM	0.15	$1,336.68	2d1e313f85add4fe6b192245c76e439f026fe121d3663844be93003b3ab6615b	32KzkrPXkWEdC19yzb6gK9f7FPVS1FTEKy	36cVBCR87SycTH2F5H7AE7EkQi3zNBPhBx	a9fe3daf4875a0b64667978cbaf7d403e0f0607f63367c1b1a5ae29886ed7413	Bitfinex
Feb 17, 2018	4:21 AM	0.15	$1,528.31	0f3ff6f22e37b6b80b0c3ebbc9dee81312e8edd759f2ffa0e1181a263eceb74c	32KzkrPXkWEdC19yzb6gK9f7FPVS1FTEKy	36cVBCR87SycTH2F5H7AE7EkQi3zNBPhBx	a9fe3daf4875a0b64667978cbaf7d403e0f0607f63367c1b1a5ae29886ed7413	Bitfinex

Date	Time							Service
Mar 1, 2018	4:04 PM	0.15	$1,550.17	e45c20d04 0f59d96839 ea2b804a1 d1c478105 80b9910de 0b51789d0 9d0a791e9	3MmbCWY61iyqrR RshFX5kPHUtmmf uVTP44	36cVBCR87 SycTH2F5H 7AE7EkQi3z NBPhBx	a9fe3daf48 75a0b6466 7978cbaf7d 403e0f0607 f63367c1b1 a5ae29886 ed7413	Bitfinex
Mar 3, 2018	6:51 PM	0.026	$287.12	11a4cafdc8 8c5d9c3006 e47286f285 ed83c84d5 897b98f4ca 2b4e40de9 eda7c9	3L24pqe1nJERxW mAU5R5BQEnqoR niNpzEW	3JpGXAhSc k9Gv5jV6Lb qgcLdudF99 52G6H	11a4cafdc8 8c5d9c3006 e47286f285 ed83c84d5 897b98f4ca 2b4e40de9 eda7c9	Coinbase
Mar 3, 2018	5:42 PM	0.00208	$23.01	3692cfdad6 30cd1cde2a aa3b97e19 58176e5f06 a84a30011 39441d622 a844fd7	3715r6QPUPhW5A UHitGdaFRmiia4Gd 5HzU	19BFPLqRv evYcgkRzC CRo5HW14 CcZMYXmL	d8ca958f54 591fb12057 239914c18 b4c81f1791 7827f95683 5e7983f935 c2a87	Unnamed Servicē
Mar 3, 2018	8:18 PM	8	$88,344.96	9980f16d67 7405c131ec 4d891aa03 2253c4285 9e60ea7b5 8b833f2f3b e9115b3	3NfFGBfsLuhH2Sp kuZcf8TTSDRgKgD xY5g	397FeyDFyE Y2uDx7LcPJ ZUeLk92hhy BDb9	2bd8e7402 3b55eea8e c275e955a 21ce87258 930f640744 9e5ecf1728 d3410f91	Quadriga
Mar 5, 2018	4:36 PM	0.365	$4,198.94	f82a068e95 5b97b09af8 298d49b28 9957853f64 3615daebf7 46c43c8b82 c4e9c	3DF7k4S2patjFjY1x fudcnadkS9Sugjs7 R	36cVBCR87 SycTH2F5H 7AE7EkQi3z NBPhBx	a9fe3daf48 75a0b6466 7978cbaf7d 403e0f0607 f63367c1b1 a5ae29886 ed7413	Bitfinex
Mar 12, 2018	2:44 PM	0.25	$2,386.00	17e80580e a0c862fdd3 ba597e220 08e5f1a013 fd7dfd4f899 86d63bfb46 71cdb	3Pnqzheik1LiBwxk FsbZPPTF4ZAj7kN rCY	36cVBCR87 SycTH2F5H 7AE7EkQi3z NBPhBx	a9fe3daf48 75a0b6466 7978cbaf7d 403e0f0607 f63367c1b1 a5ae29886 ed7413	Bitfinex
Mar 7, 2018	2:32 PM	0.167	$1,792.82	901f20262f 716e52a34 468a1cb9d	3M8Ka36bh7DCGN YVnEeEZDPmEMw nCbRQym	132p4FBjJq5 rDmpJae6Jg JJcK7211AD	f7013729cf 8c301a0fc8 0fdcc214ec	Binance

Date	Time		Amount					
				54c31d4960a1f21813713c97a3195f47c6d2		Ci9	92ab6cb844c7cb8a4a5b85e8bfaf2e68b5	
Mar 8, 2018	10:23 PM	8	$74,534.16	499dfe1c35806c9618e504a9f23415c26986750543c8f806428de63aaefc8736	36DTRnmcoHnRiaoungumHkw9hFz6ti5jqf	18HtFpy4qiue845qm2jQni7e9nio9u2m6F	8f737dcc5c531d495962c10e316049b903ea2a0223f31326c7c98eb7bb467a47	Binance
Mar 28, 2018	2:25 PM	0.25	$1,952.11	35f4621379e28e460b283cda7796ce87c1cbb41422d69fdfc2c1a5f8ba588b51	3PxD4EvLTqEmEgeJa7oGjdbd8mFAfksQPG	36cVBCR87SycTH2F5H7AE7EkQi3zNBPhBx	a9fe3daf4875a0b64667978cbaf7d403e0f0607f63367c1b1a5ae29886ed7413	Bitfinex
Apr 6, 2018	4:26 AM	0.01	$67.90	d162a799cfac60019ebea0132fabec783dd347bd725bc13be1ccdb9bd0a16d4d	33RQ5QL68sALo4t4VZ7b5fJxo5Tro23B67			No Destination
Apr 9, 2018	10:57 AM	0.3	$2,114.98	7b15e5ad5bf9dfc6751b6bd8e28512330a8ed3a49ee6820fd6748d5c5a6229d2	3D1psJVdCa5We5LrLMVBUtw6j54452p9op	36cVBCR87SycTH2F5H7AE7EkQi3zNBPhBx	2192597e71b600a50e86297550ad0587acfc796641e4128d8d6b1987e7b4b1f6	Bitfinex
Apr 10, 2018	3:23 PM	0.2	$1,357.91	6f2647c6bcc6b2002f2f96427c47515695f62165634a167cfd3a1aac07797968	33xkXnoTw7YEgUxrazuWXN42QgBhTFiKPR	36cVBCR87SycTH2F5H7AE7EkQi3zNBPhBx	2192597e71b600a50e86297550ad0587acfc796641e4128d8d6b1987e7b4b1f6	Bitfinex
Apr 13, 2018	4:35 PM	2.2	$17,441.01	cc32b02495338b67144dd73db5b63bc0e71b4442134314928cff3b7a	3FrgdH334EBHimf1y2wjzNRRV8FfRfbWm8	374xMe2ASGzc2LwacfaTVxyzm71G3HQUDd	7c59526e214c5ea63a91a2fd0e93cae18a7b65fab758f6323f3c30161	Kraken

				4e7d3bdf				c39953a	
Apr 13, 2018	4:39 PM	4.795	$38,012.67	08c3daccbbd5679c0da7db40056696d2d9d36f151f83b27eae16c5855d4aa878	3GEUKhdSXGPkBAzHfW7B1SFFxqhTHusfno		3D8TFvHjQUSvVBSJqMxxU2G3dLyFxf4z3S	21109d17b9b61ac00354a7534ab9f9c38d34500a1faae8e503e3c5cb065f5838	Bitfinex
		25.166508	$237,969.19						

Exchange-Specific Transaction Summary with [Vendor] Attribution Data:

Based on our analysis, the following exchanges currently hold the deceased's assets:

Date Received	Received Amt in BTC	Provided Trx ID	[Name]'s Originating Wallet	Intermediary Wallet	Transaction Hash	Exchange Recipient Wallet	[Vendor] Attribution
Mar 7, 2018	0.167	901f20262f716e52a34468a1cb9d54c31d4960a1f21813713c97a3195f47c6d2	3M8Ka36bh7DCGNYVnEeEZDPmEMwnCbRQym	32DFTJCoPVmdhb3HXhwNtetHE79ysranLv	f7013729cf8c301a0fc80fdcc214ec92ab6cb844c7cb8a4a5b85e8bfaf2e68b5	132p4FBjJq5rDmpJae6JgJJcK7211ADCi9	Binance
Mar 04, 2018	0.01005	9980f16d677405c131ec4d891aa032253c42859e60ea7b58b833f2f3be9115b3	3NfFGBfsLuhH2SpkuZcf8TTSDRgKgDxY5g	3AksBcXJd9d8MTK3VLTgz127FfT5Y8iEt2	0914047cd4883bacfaf5a3612e9b6989c0158d038fb00ed414e43533f46f6073	197cZMqBCYrcf3tSv9BtAy93pjmgGyAjun	Binance
Mar 09, 2018	6.09	499dfe1c35806c9618e504a9f23415c26986750543c8f806	3M8Ka36bh7DCGNYVnEeEZDPmEMwnCbRQym	39zY58kWwbYh5qhUULiBYVHsuiFJCVmDSA	8f737dcc5c531d495962c10e316049b903ea2a0223f31326c7c98eb7bb467a47	18HtFpy4qiue845qm2jQni7e9nio9u2m6F	Binance

		428de63a aefc8736					
Mar 28, 2018	0.25	35f46213 79e28e46 0b283cda 7796ce87 c1cbb414 22d69fdfc 2c1a5f8b a588b51	3PxD4EvLTq EmEgeJa7oG jdbd8mFAfks QPG	3MPDXH68U KC1UDZqNof jDRJHYA6ukt RSaC	a9fe3daf4875 a0b64667978 cbaf7d403e0f 0607f63367c 1b1a5ae2988 6ed7413	36cVBCR87S ycTH2F5H7A E7EkQi3zNB PhBx	Bitfinex
Apr 9, 2018	0.3	7b15e5ad 5bf9dfc67 51b6bd8e 28512330 a8ed3a49 ee6820fd 6748d5c5 a6229d2	3D1psJVdCa 5We5LrLMVB Utw6j54452p 9op	3J2eaKVvcFk PAWnnFjtYV ZcfRiQiuLtkn U	2192597e71b 600a50e8629 7550ad0587a cfc796641e4 128d8d6b198 7e7b4b1f6	36cVBCR87S ycTH2F5H7A E7EkQi3zNB PhBx	Bitfinex
Apr 10, 2018	0.2	6f2647c6 bcc6b200 2f2f96427 c4751569 5f621656 34a167cf d3a1aac0 7797968	33xkXnoTw7 YEgUxrazuW XN42QgBhT FiKPR	35N4geR2xr wrnLrMZdcoF ayUDvvCFua Lid	2192597e71b 600a50e8629 7550ad0587a cfc796641e4 128d8d6b198 7e7b4b1f6	36cVBCR87S ycTH2F5H7A E7EkQi3zNB PhBx	Bitfinex
Apr 13, 2018	5	08c3dacc bbd5679c 0da7db40 056696d2 d9d36f15 1f83b27e ae16c585 5d4aa878	3GEUKhdSX GPkBAzHfW 7B1SFFxqhT Husfno	31kudPZezYk TYArCEuLUt z7TTw8C9W TTpp	21109d17b9b 61ac00354a7 534ab9f9c38 d34500a1faa e8e503e3c5c b065f5838	3D8TFvHjQU SvVBSJqMxx U2G3dLyFxf4 z3S	Bitfinex
Mar 5, 2018	0.365	f82a068e 955b97b0 9af8298d 49b28995 7853f643 615daebf 746c43c8	3DF7k4S2pat jFjY1xfudcna dkS9Sugjs7R	35N4geR2xr wrnLrMZdcoF ayUDvvCFua Lid	a9fe3daf4875 a0b64667978 cbaf7d403e0f 0607f63367c 1b1a5ae2988 6ed7413	36cVBCR87S ycTH2F5H7A E7EkQi3zNB PhBx	Bitfinex

		b82c4e9c					
Mar 12, 2018	0.25	17e80580 ea0c862f dd3ba597 e22008e5 f1a013fd7 dfd4f8998 6d63bfb4 671cdb	3Pnqzheik1Li BwxkFsbZPP TF4ZAj7kNrC Y	35N4geR2xr wrnLrMZdcoF ayUDvvCFua Lid	a9fe3daf4875 a0b64667978 cbaf7d403e0f 0607f63367c 1b1a5ae2988 6ed7413	36cVBCR87S ycTH2F5H7A E7EkQi3zNB PhBx	Bitfinex
Feb 6, 2018	0.15	fb21dae7 40d12865 5165fa8c 123ff45b8 41778989 b3f3f5fd3f 07c038ad 5e2ef	3Qw9YM7J3K reNc5yejWh3J JJpbAUV3Du BE		a9fe3daf4875 a0b64667978 cbaf7d403e0f 0607f63367c 1b1a5ae2988 6ed7413	36cVBCR87S ycTH2F5H7A E7EkQi3zNB PhBx	Bitfinex
Feb 13, 2018	0.15	2d1e313f 85add4fe 6b192245 c76e439f 026fe121 d3663844 be93003b 3ab6615b	32KzkrPXkW EdC19yzb6g K9f7FPVS1F TEKy	3J2eaKVvcFk PAWnnFjtYV ZcfRiQiuLtkn U	a9fe3daf4875 a0b64667978 cbaf7d403e0f 0607f63367c 1b1a5ae2988 6ed7413	36cVBCR87S ycTH2F5H7A E7EkQi3zNB PhBx	Bitfinex
Feb 17, 2018	0.15	0f3ff6f22e 37b6b80b 0c3ebbc9 dee81312 e8edd759 f2ffa0e11 81a263ec eb74c	32KzkrPXkW EdC19yzb6g K9f7FPVS1F TEKy	3JBFQZHGP bpHUNm1iCp MDJJvGj1JXi xrLz	a9fe3daf4875 a0b64667978 cbaf7d403e0f 0607f63367c 1b1a5ae2988 6ed7413	36cVBCR87S ycTH2F5H7A E7EkQi3zNB PhBx	Bitfinex
Mar 1, 2018	0.15	e45c20d0 40f59d96 839ea2b8 04a1d1c4 7810580b 9910de0b 51789d09 d0a791e9	3MmbCWY61 iyqrRRshFX5 kPHUtmmfuV TP44	3MPDXH68U KC1UDZqNof jDRJHYA6ukt RSaC	a9fe3daf4875 a0b64667978 cbaf7d403e0f 0607f63367c 1b1a5ae2988 6ed7413	36cVBCR87S ycTH2F5H7A E7EkQi3zNB PhBx	Bitfinex

Mar 3, 2018	0.026	11a4cafdc88c5d9c3006e47286f285ed83c84d5897b98f4ca2b4e40de9eda7c9	3L24pqe1nJERxWmAU5R5BQEnqoRniNpzEW		11a4cafdc88c5d9c3006e47286f285ed83c84d5897b98f4ca2b4e40de9eda7c9	3JpGXAhSck9Gv5jV6LbqgcLdudF9952G6H	Coinbase
Mar 09, 2018	0.186	499dfe1c35806c9618e504a9f23415c26986750543c8f806428de63aaefc8736	3M8Ka36bh7DCGNYVnEeEZDPmEMwnCbRQym	39zY58kWwbYh5qhUULiBYVHsuiFJCVmDSA	8f737dcc5c531d495962c10e316049b903ea2a0223f31326c7c98eb7bb467a47	1ANQxbqsJUuMwhYtospS6XQiznwA6eFh3J	Gate.io
Mar 09, 2018	0.07624194	499dfe1c35806c9618e504a9f23415c26986750543c8f806428de63aaefc8736	3M8Ka36bh7DCGNYVnEeEZDPmEMwnCbRQym	39zY58kWwbYh5qhUULiBYVHsuiFJCVmDSA	8f737dcc5c531d495962c10e316049b903ea2a0223f31326c7c98eb7bb467a47	3FQfaXWonpstr7VGwaPAYoJNgZE2yyzUUo	HitBTC
Apr 13, 2018	1	cc32b02495338b67144dd73db5b63bc0e71b444213431492 8cff3b7a4e7d3bdf	3FrgdH334EBHimf1y2wjzNRRV8FfRfbWm8	3J2eaKVvcFkPAWnnFjtYVZcfRiQiuLtknU	7c59526e214c5ea63a91a2fd0e93cae18a7b65fab758f6323f3c30161c39953a	374xMe2ASGzc2LwacfaTVxyzm71G3HQUDd	Kraken
Mar 04, 2018	0.8	9980f16d677405c131ec4d891aa032253c42859e60ea7b58b833f2f3be9115b3	3NfFGBfsLuhH2SpkuZcf8TTSDRgKgDxY5g	3AksBcXJd9d8MTK3VLTgz127FfT5Y8iEt2	0914047cd4883bacfaf5a3612e9b6989c0158d038fb00ed414e43533f46f6073	3PxBRG5pSYuUmBmT2JmtvjZdwP7YdTKywF	Kraken

Mar 04, 2018	6.74	9980f16d 677405c1 31ec4d89 1aa03225 3c42859e 60ea7b58 b833f2f3b e9115b3	3NfFGBfsLuh H2SpkuZcf8T TSDRgKgDx Y5g	3AksBcXJd9 d8MTK3VLT gz127FfT5Y 8iEt2	2bd8e74023b 55eea8ec275 e955a21ce87 258930f6407 449e5ecf172 8d3410f91	397FeyDFyE Y2uDx7LcPJ ZUeLk92hhy BDb9	Quadriga (Defunct)
Mar 3, 2018	0.00208	3692cfda d630cd1c de2aaa3b 97e19581 76e5f06a 84a30011 39441d62 2a844fd7	3715r6QPUP hW5AUHitGd aFRmiia4Gd5 HzU	1KHqQqKud PDADGNbNv vJv2AMsLhe UGfCcp	d8ca958f545 91fb1205723 9914c18b4c8 1f17917827f9 56835e7983f 935c2a87	19BFPLqRve vYcgkRzCCR o5HW14CcZ MYXmL	Unnamed Service

Source Document: *[File name]* includes a detailed transaction summary and a breakdown of the destinations of assets.

Exchange Engagement and Next Steps

Since the traced assets have been transferred to multiple regulated exchanges, we request the compliance teams at these exchanges verify whether the assets remain in their custody. If so, the Estate is seeking to understand the required process for Estate access. We acknowledge that different exchanges may have varying requirements for account recovery, and the Estate is prepared to provide all necessary documentation to facilitate a resolution.

To ensure a structured and efficient approach, Collisionless will submit a copy of this report to each exchange via email. The Estate will be expected to reply to the email with a copy of the deceased's death certificate and probate documentation. The objective is to initiate an open dialogue with exchange representatives, allowing for a clear pathway toward asset retrieval while ensuring compliance with regulatory and platform-specific policies.

From a procedural standpoint, we anticipate that exchanges may require additional verification. Some documents that may be requested include photo ID, death certificate,

probate documents for the Estate and legal authorization for asset transfer[2,3]. Should further forensic investigation be necessary to establish these links, our team remains available to assist.

To streamline this process, we recommend that the Estate representatives proactively communicate with the designated contacts at each exchange, addressing any queries that may arise and expediting review timelines. Furthermore, should exchanges require any additional supporting evidence, our investigative team will coordinate with the Estate to ensure timely and accurate responses.

With a proactive and well-documented approach, we believe that the engagement with exchanges can lead to a successful resolution, allowing for the lawful and rightful transfer of assets to the Estate. We encourage all parties to act in good faith and in alignment with industry best practices for handling digital asset succession cases.

For any inquiries or coordination, please contact:

[Name], Senior Investigator
[Email]

Prepared by: Collisionless Global Technology Services Inc.

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[2] Claim a deceased's Coinbase account
https://help.coinbase.com/en/coinbase/managing-my-account/other/how-do-i-gain-access-to-a-deceased-family-members-coinbase-account

[3]Beneficiary accounts at Kraken https://support.kraken.com/hc/en-us/articles/360031279771-Is-it-possible-to-set-a-beneficiary-or-nominee-