



**How popular are
smart contract wallets,
really?**

1.

What are smart contract wallets, and what makes them so great?

2.

What smart contract wallets exist today?

- How popular are they?
- How trusted are they?

3.

What are next steps for the Gnosis Safe?

**What are smart contract wallets,
and what makes them so great?**



Access control

Regular wallets

Controlled by 1 single private key

Smart contract wallets

Controlled by contract code

Recovery schemes

Allowances / daily limits

Multi-signature support



Transaction fees

Regular wallets

ETH required for transaction fees

- Gasless transactions only with specific dapps

Smart contract wallets

Transaction fees can be paid by third parties for all transactions

- Gasless transactions
- Token payment



Multiple transactions

Regular wallets

Transactions must be executed individually and sequentially: one after another

Smart contract wallets

Batched transactions possible: execute many transactions in one confirmation

What smart contract wallets exist today?

Gnosis Multisig 

Gnosis Safe 

Argent 

Dapper 

Monolith 

Dharma 

Pillar 

Abridedge 

Authereum 

InstaDApp 

Oasis 

...

Gnosis Multisig 

Gnosis Safe 

Argent 

Dapper 

Monolith 

Dharma 

Pillar 

Abridged 

Authereum 

InstaDApp 

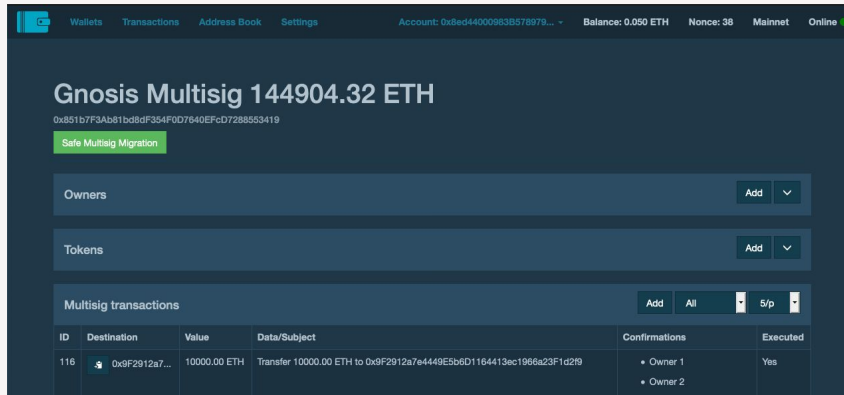
Oasis 

...

How popular are they?

How trusted are they?

- Number of instances
- Number of transactions
- Total funds stored
 - ETH
 - ERC20 tokens
- Onchain stats pulled via Dune Analytics
- Data from Feb 24, 2020



Wallets Transactions Address Book Settings Account: 0xbad44000983b57979... Balance: 0.050 ETH Nonce: 38 Mainnet Online

Gnosis Multisig 144904.32 ETH

0xb51b7f3Aab81bd8dF354F0D7640EFCd7288553419

Safe Multisig Migration


Owners Add

Tokens Add

Multisig transactions Add All S/p

ID	Destination	Value	Data/Subject	Confirmations	Executed
116	0x9F2912a7...	10000.00 ETH	Transfer 10000.00 ETH to 0xdF2912a7e449E5b6D1164413ec1966a23F1d2f9	• Owner 1 • Owner 2	Yes

Tokens				Add	
Name	Multisig balance		Account balance		
Gnosis	Edit	Remove	12,462.42 GNO	Deposit	Withdraw 12,462.42 GNO
Aragon Network	Edit	Remove	0 ANT	Deposit	Withdraw 0 ANT
Augur	Edit	Remove	0 REP	Deposit	Withdraw 0 REP
Bancor Network	Edit	Remove	0 BNT	Deposit	Withdraw 0 BNT
Basic Attention Token	Edit	Remove	0 BAT	Deposit	Withdraw 0 BAT

- <https://gnosis.io>
- Released in 2017
- Multi-signature wallet
- Daily limit
- ETH and ERC20 tokens
- Used by many ICOs and crypto projects
- Standard for high-value, self-custodial crypto fund storage
- Web interface at <https://wallet.gnosis.io>
- Standalone desktop app available
- Contracts used by Multisig 



- 1.2M ETH (~ 333M USD)
- 3,288 contracts
 - 264 with ≥ 1 ETH
 - 449 with ≥ 10 txs
- 40,059 transactions
- > 500M USD in ERC20s
 - 8.5M GNO
 - 204k MKR
 - 32.4M USDT
 - 23.6M OMG
 - 38.5M KNC
 - 52k WETH




All Gnosis Multisigs sorted by number of ETH stored

n	address	eth_amount
1	https://etherscan.io/address/0x231568baa78111377f097bb087241f8379fa18f4	371,767.81
2	https://etherscan.io/address/0x7da82c7ab4771ff031b66538d2fb9b0b047f6cf9	222,970.17
3	https://etherscan.io/address/0xcafe1a77e84698c83ca8931f54a755176ef75f2c	137,722.65
4	https://etherscan.io/address/0x22650fcf7e175ffe008ea18a90486d7ba0f51e41	137,217.06
5	https://etherscan.io/address/0xb8d2b921c0ea0ca27266fa63907a079ef25084d0	50,618.82
6	https://etherscan.io/address/0xeb01b3391ea15ce752d01cf3d3f09dec596f650	46,720.04
7	https://etherscan.io/address/0x7b8ffa4fe43d1b476cff9d0787fc0019ca54e421	26,000.00
8	https://etherscan.io/address/0x3d9256ad37128e9f47b34a82e06e981719477c18	21,147.12
9	https://etherscan.io/address/0x94133870506af5d0644f41a2ee62cc387b81135e	18,849.41
10	https://etherscan.io/address/0x5afc06c035619654927614fac6bc1c0413715e59	15,184.57

All Gnosis Multisigs sorted by number of transactions

n	address	transactions
1	https://etherscan.io/address/0x7f35d9f88ace99168c2cfa026c969459db486afb	5,566
2	https://etherscan.io/address/0x492eea2038aad701259f3535841ab985c2f9a80	2,299
3	https://etherscan.io/address/0xd35a2d8c651f3eba4f0a044db961b5b0ccf68a2d	1,796
4	https://etherscan.io/address/0x8cc70d4a9fa194a5b4191aa415a81bd8f8bbe2f1	1,263
5	https://etherscan.io/address/0x8844dfd05ac492d1924ad27ddd5e690b8e72d694	816
6	https://etherscan.io/address/0xf9c3c1a10787761269274d34ac9c1d7bd06ed11a	655
7	https://etherscan.io/address/0x2cccc4b4708b318a6290511aac75d6c3d8e0cf9f	583
8	https://etherscan.io/address/0xdf28bf25779ed4ca74e958d54653260af604c20	476
9	https://etherscan.io/address/0x18d8c5f3eb2bb2dfe4c575486075b9193b74ec03	455
10	https://etherscan.io/address/0x40d6010679f3c43eddda622f906f406f1d4fd84a	432











Gnosis Safe

 **Gnosis Safe** READ ONLY
0xF501B324DC6d78dC9F983f140B921c3EdB4dc7  


Send Receive

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USD [Manage List](#)

ASSET ↓	BALANCE	VALUE
 Ether	10 ETH	2677.30 USD
 Compound Sai	1,825 cSAI	0.04 USD
 DAOstack	20,000 GEN	2232.58 USD
 Gnosis	100 GNO	1939.40 USD
 Hercules	200 HERC	1.75 USD
 Kyber Network	50 KNC	27.58 USD
 OMG	100 OMG	110.49 USD
 OWL Token	3 OWL	1.96 USD
 Raiden Network	7,000 RDN	1091.47 USD
 Sai Stablecoin v1.0	1.2 SAI	1.20 USD

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- <https://safe.gnosis.io>
- Released in 2018
- ETH, ERC20, ERC721
- Formally verified
- Token payment
- Web interface at <https://gnosis-safe.io>
- Android, iOS
- Chrome extension (deprecated)
- Contracts used by UniLogin 

ID ↓	TYPE	AMOUNT	DATE	STATUS
23	⚙️ Modify settings	n/a	Feb 21, 2020 - 00:34:06	Success ▾
22	➔ Outgoing transfer	2 OWL	Feb 21, 2020 - 00:33:08	Success ▾
21	➔ Outgoing transfer	5 OWL	Feb 21, 2020 - 00:33:08	Success ▾

Gnosis Safe

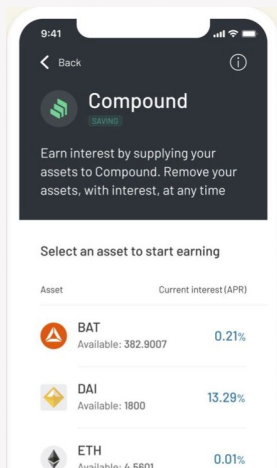
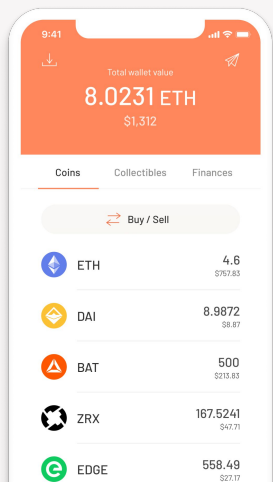
- 83,960 ETH (~ 22M USD)
- 2,056 contracts
 - 140 with ≥ 1 ETH
 - 192 with ≥ 10 txs
- 10,787 transactions
- >2M USD in ERC20s
 - 50k GNO
 - 710k USDT
 - 13M cSAI
 - 140 MKR

All Safes sorted by number of ETH stored

n	safe_address	eth_amount
1	https://etherscan.io/address/0x9d94ef33e7f8087117f85b3ff7b1d8f27e4053d5	20,000.10
2	https://etherscan.io/address/0xf661107395729afc8a027b976337b859a0847d8e	19,797.90
3	https://etherscan.io/address/0xafc2f2d803479a2af3a72022d54cc0901a0ec0d6	15,000.00
4	https://etherscan.io/address/0x9f2912a7e4449e5b6d1164413ec1966a23f1d2f9	10,001.00
5	https://etherscan.io/address/0x99f4176ee457afedffcb1839c7ab7a030a5e4a92	8,807.90
6	https://etherscan.io/address/0xcf60916b6cb4753f58533808fa610fcbd4098ec0	2,272.25
7	https://etherscan.io/address/0x97e270c954f61f212fb29c0aac13ae6b39fd730c	2,100.00
8	https://etherscan.io/address/0x0632dcc37b1fabf2cad20538a5390d23c830962e	1,050.00
9	https://etherscan.io/address/0xd010eb53a6522dd4da66a3a156334539ec1cb2a7	741.34
10	https://etherscan.io/address/0xd29bb64673c42ae96f0008342ef9a71918b46d7e	400.78

All Safes sorted by number of transactions

n	safe_address	safe_transactions
1	https://etherscan.io/address/0x84443f61efc60d10da9f9a2398980cd5748394bb	835
2	https://etherscan.io/address/0xfad1611565ac495c927000623f0d04c84e1091e6	420
3	https://etherscan.io/address/0x73555792708d34d5d2c3fce67134ea691ceb4d65	391
4	https://etherscan.io/address/0xae5fb390e5c4fa1962e39e98dbfb0ed8055ed7a9	354
5	https://etherscan.io/address/0xd2b3d480db9fb08ea55c349c0299b81892f31544	332
6	https://etherscan.io/address/0x730fd267ef60b27615324b94bf0bc7ed15d52718	324
7	https://etherscan.io/address/0x0ddf6d8d6a082ed2714c16bae48394f00bf78f6e	262
8	https://etherscan.io/address/0x58fdd0fa08ccde333e1f17d232dd418258fc5150	224
9	https://etherscan.io/address/0xf35b11c5bd590969a55302ee9068b4c3bb46057b	198
10	https://etherscan.io/address/0xe858a4bf603995a9156edbd25ff06269d997839e	178



- <https://argent.xyz>
- Released in 2018
- Mobile app with seamless UX
- ETH, ERC20 and ERC721
- Direct dapp integrations (KyberSwap, Compound, DSR)
- Free transactions
- Social recovery via guardians
- WalletConnect
- Daily limit
- ENS integration
- Fiat onramp



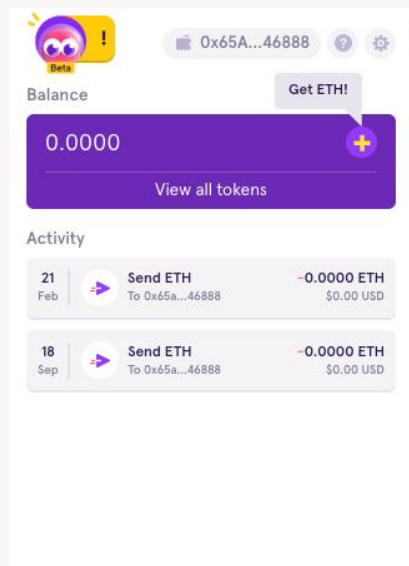
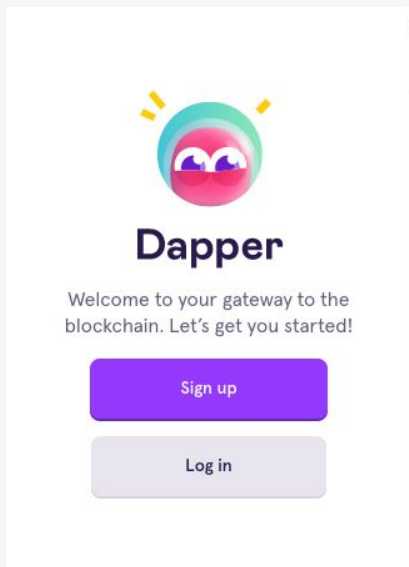
- 10,425 ETH (~ 2.7M USD)
- 13,957 contracts
 - 505 with ≥ 1 ETH
 - 825 with ≥ 10 txs
- 36,434 transactions
- >2M USD in ERC20s
 - 40M cUSDC
 - 20M cDAI
 - 127k LINK
 - 326 MKR

All Argent contracts sorted by number of ETH stored

n	safe_address	eth_amount
1	https://etherscan.io/address/0xf8c5a3238bd5caff52ee00c4b9aa861199ed03cd	850.03
2	https://etherscan.io/address/0xe006d75ed9fe8f1564fbbd5d198ad521bd60d1c1	801.24
3	https://etherscan.io/address/0x164ae4442390943f96961cf754fa3c810fe1a392	600.00
4	https://etherscan.io/address/0xe79057088a15ac8c9c8bec3b90bd9891a1b3af51	558.33
5	https://etherscan.io/address/0x62991a1b4187481c8b5bb49fa56771e09ff488d	273.35
6	https://etherscan.io/address/0xd1b5ba0f326f0c6a68e2080c9cb4251500e152a	254.14
7	https://etherscan.io/address/0xf9c5c00201067a5f9baa19271e11c7b685fa5dd4	200.00
8	https://etherscan.io/address/0x15b7059b7cb2d675403631ba9559aa7de0208890	200.00
9	https://etherscan.io/address/0x596e7d5e47820c809c5fa8ca82c2829a67143b1a	200.00
10	https://etherscan.io/address/0x26d8bd22c1b3ce53d6c5110c71138749f4c69439	187.00

All Argent contracts sorted by number of transactions

n	address	transactions
1	https://etherscan.io/address/0x9b6b31c2a2580f4a0fb822530ac6606222e37d28	831
2	https://etherscan.io/address/0x2c8f3f786afdb01b9329e8bdf0f5e2b583ce3338	705
3	https://etherscan.io/address/0x91d07a15106e6b75c3092f9bceec10dc186c43079	659
4	https://etherscan.io/address/0xc4d46ecbc83f41d0bf71a39868d3f830299068b8	638
5	https://etherscan.io/address/0x26d8bd22c1b3ce53d6c5110c71138749f4c69439	481
6	https://etherscan.io/address/0x02412bd3f80e8c42af80ab85e094cf88958f14ff	355
7	https://etherscan.io/address/0x107c869a42a737fd3dbcd8aae094eabf120af8d	352
8	https://etherscan.io/address/0x1ccb5cef2d364ee60eeae2b241ea7212d3c10287	319
9	https://etherscan.io/address/0x052fb190e6ef35bc3ce5d6707f73439727d96d3d	276
10	https://etherscan.io/address/0x747da18fdc8840df0d96bf32cfbcfc8e03d77b42	252



- <https://www.meetdapper.com/>
- Released in 2019
- ETH, ERC20 and ERC721 support
- Built for games and collectibles (CryptoKitties)
- Free transactions
- Chrome extension
- Fiat onramp



- 546 ETH (~ 147k USD)
- 27,540 contracts
 - 460 with ≥ 1 ETH)
 - 1,799 with ≥ 10 txs
- 501,190 transactions
- > 50k USD in ERC20s
- Mainly NFTs

All Dapper contracts sorted by number of ETH stored

n	address	eth_amount
1	https://etherscan.io/address/0x6b4b2a36a17c41b47ebd4f874fff825d7deb00df	83.55
2	https://etherscan.io/address/0xa9ae974a846a1fc5b50e7a8a4c1250f0fd9993e2	33.32
3	https://etherscan.io/address/0x77ba78c10efb5100ce93e611f01e272f1b9ced84	19.88
4	https://etherscan.io/address/0x1d737dda74dfb47d909794432ec65561668dc88	13.12
5	https://etherscan.io/address/0x2ac8999c2f11d8e190e243b7ac2483733c0f0e3c	11.37
6	https://etherscan.io/address/0x7c3bb14481d04929b56ee2fa90f9a2e16ff6c091	10.00
7	https://etherscan.io/address/0xfbcc2f150553a4cb539ea4fe68edd8cbcb5a58ef8	9.53
8	https://etherscan.io/address/0xcf7792955f53da1df2e7f4b5d3f66e1addf132e	8.33
9	https://etherscan.io/address/0x0380796a0807ef0652e217ea96489eca4215c3ca	8.33
10	https://etherscan.io/address/0xc855e930878871f5af7263831c983deecdfb1b9b	7.59

All Dapper contracts sorted by number of transactions

n	address	transactions
1	https://etherscan.io/address/0xebaa45cc86d8d4b8ebcf92d6f7d0bac977fea576	23,787
2	https://etherscan.io/address/0x84ae8708798c74ef8d00f540c4012963955106ff	12,791
3	https://etherscan.io/address/0xacf66693dbb2f624df9077d97274b2acd6fd2c25	12,306
4	https://etherscan.io/address/0x9e50ed2154dd9f5d8dadb8c44df100c89b9fd378	10,699
5	https://etherscan.io/address/0x33b08550a9de04cc3c75d8af9b43a8372916e0e7	9,737
6	https://etherscan.io/address/0xc68f1fbc1d32cb878af05c1603d2123fc765ac3b	9,337
7	https://etherscan.io/address/0x7045c87eb8e63b68c5256c6648f7605f5c20b6e0	7,944
8	https://etherscan.io/address/0x8c3dffab3cc45fb09410dedfc23446dab0a4b3b6	7,781
9	https://etherscan.io/address/0x37ca19f8d7c5b7ba854c3ea678a9ee27bb05d72b	7,118
10	https://etherscan.io/address/0xe570e5f12808f26f9d8af967e5ff2307ae5c7c77	6,729

Links to all data sources: http://bit.ly/dune_wallets



Data points to look at in the future

- Transaction types
 - ETH transfers
 - ERC20 token transfers
 - Contract/ dapp interactions
- Retention and frequency of use
- Other asset types
 - ERC721
 - ERC1155
- Compare activity of smart contract wallets to EOAs
- ...

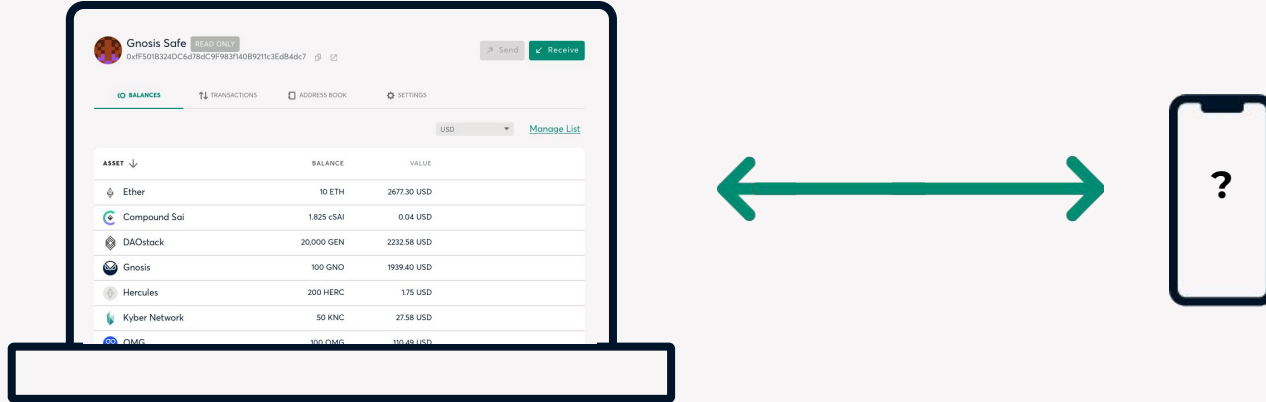
**How popular are
smart contract wallets, really?**

	ETH stored	Contracts with ≥ 1 ETH	Contracts with ≥ 10 txs	No. of transactions	ERC20 token value
Gnosis Multisig	1.2M	264	449	40,059	> 500M USD
Gnosis Safe	83,960	140	192	10,787	> 2M USD
Argent	10,425	505	825	36,434	> 2M USD
Dapper	546	460	1,799	501,190	> 50k USD

**What are next steps for
the Gnosis Safe?**

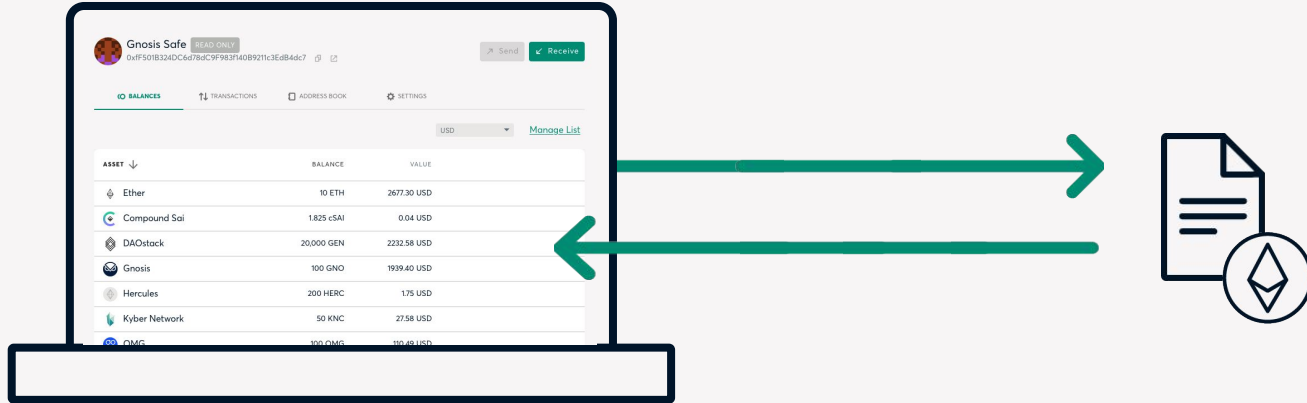
Focus on Gnosis Safe Multisig (formerly Gnosis Safe for Teams)

- Flexible multi-signature interface
- Align current mobile app with functionality of the web interface



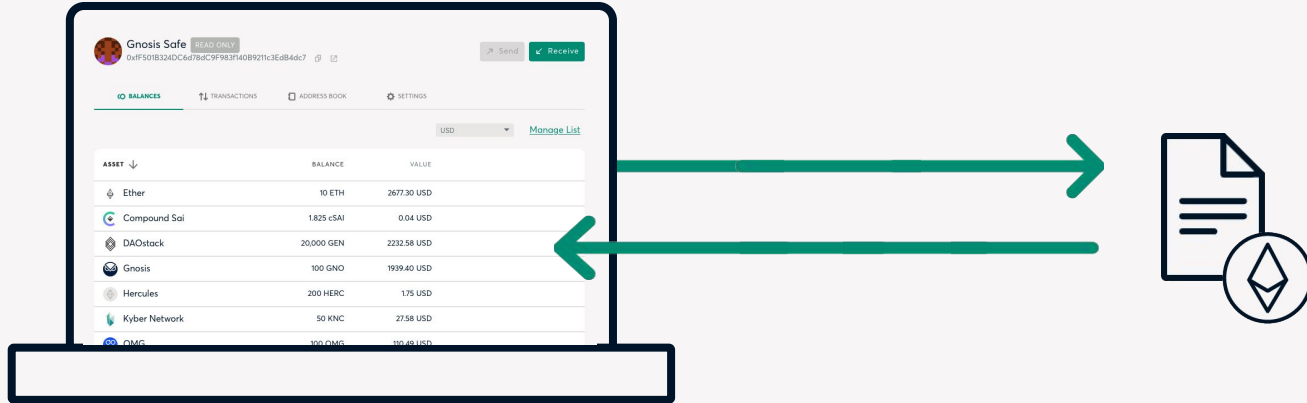
Dapp integrations for Gnosis Safe Multisig

- Easier smart contract interactions
- Possibility for integrations for third party developers with Gnosis Safe interface



Contract proxy kit

- Attempt to unify used proxy contracts for interoperability
- Possibility for third party developers to leverage Gnosis Safe contracts in their own (d)apps





Thank you
<https://safe.gnosis.io>