

A.1.2 Call Class

Basic Ethereum Data Store

For transactions related to a contract, internal transactions (calls) are executed. Call table contains enriched data from "Contract" and "Token" table using contract ABI to e.g. decode the name of the contract method. Internal transaction type of contract-related transactions.

See:

<https://docs.google.com/spreadsheets/d/1ehCIQxjSZcVLnddDWHBzhPb8h83mHWZxvyX9eckghbU/edit#gid=58470235>

Call	
PK	id: text (tx-hash)
	from: text
	to: text
	transaction_index: numeric
	hash: text
	method: text
	block_number: numeric
	block_hash: text
	probability: numeric
	timestamp: timestamp with time zone
	args: jsonb
	status: boolean

Figure 1: The Ethereum Call Class

Id

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Primary Key; Same as the hash code.

Description	Identifier
Datatype	text (tx-hash)
Example	0x00000006575c4c7874ad8726f623b056ce48cda8bc6e2174bd6867e269ca0235

From

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Description	The address for the sending contract
Datatype	text
Example	0xe2b0a00ce8f80b12913a654482e5ec5a857969bd

To

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Description	The destination address of the message, left undefined for a contract-creation transaction.
Datatype	text
Example	0x8d12a197cb00d4747a1fe03395095ce2a5cc6819

Transaction Index

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Description	Integer of the transaction index position
Datatype	numeric
Example	86

Hash

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Description	Hash of the transaction
Datatype	text
Example	0x00000006575c4c7874ad8726f623b056ce48cda8bc6e2174bd6867e269ca0235

Method

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Example values: approve | cancelOrder | createSalesAuction | flushForwarderTokens | freezeAccount | giveBirth | invoke1CosignerSends | kill | mint | multiGenerate | offer | placeBet | snedMultiSig | setCompactData | split | swapToken | trade | transfer | withdraw ...

Description	Name of the method that was called during the transaction.
Datatype	text
Example	cancelOrder

Block Number

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Description	Block height
Datatype	numeric
Example	5095213

Block Hash

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Description	Hash of the block
Datatype	text
Example	0x901c57a4000392e1eb47b87221d929420c71ce706a14859c5f93a2475217049c

Probability

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Currently these are set to 1 for all data that we can retrieve from the blockchain or verify via Etherscan. In case we're able to find a matching contract in our database by comparing the byte code of a contract or find a similar contract on a different blockchain, this is reflected in the probability. The probabilities are then copied into the Event and Call tables to give an indication of how sure we are this is the right translation.

Description	Anyblock custom field
Datatype	numeric
Example	1

Timestamp

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Description	Timestamp
Datatype	timestamp with time zone
Example	2018-02-15 14:50:32+00

Args

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Description	Array of argument objects coming from that event. Needed for executing a method in the contract (method parameters)
Datatype	jsonb
Example	<pre>[{"hex": "0x00", "pos": 0, "name": "tokenGet", "type": "address"}, {"hex": "0xd1ef6848f9e1200", "num": 945464021000000000, "pos": 1, "name": "amountGet", "type": "uint256"}, {"hex": "0xDd6C68bb32462e01705011a4e2Ad1a60740f217F", "pos": 2, "name": "tokenGive", "type": "address"}, {"hex": "0xa15d4e62fd11000", "num": 726721000000000000, "pos": 3, "name": "amountGive", "type": "uint256"}, {"hex": "0x4de624", "num": 5105188, "pos": 4, "name": "expires", "type": "uint256"}, {"hex": "0x282e4ca", "num": 42132682, "pos": 5, "name": "nonce", "type": "uint256"}, {"hex": "0x1b", "num": 27, "pos": 6, "name": "v", "type": "uint8"}, {"hex": "0x2da74095f6c78e151a5410955079a0481d939fda00e1f0b94b445c66dea0652a", "pos": 7, "name": "r", "type": "bytes32"}, {"hex": "0x2b73c6bc213613e7cbb788f1e49d968fed95df4ffaa58fa1f4580e939885c624", "pos": 8, "name": "s", "type": "bytes32"}]</pre>

Status

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Possible values: True | False | NULL

Description	if the transaction was successfully mined/executed
Datatype	boolean
Example	True

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Permanent link: https://www.omgwiki.org/dido/doku.php?id=dido:public:s_cli:05_contents:03_prt:08_basic_dido_objects:02_call:start

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