

A.1.4 Event Class

Basic Ethereum Data Store

Events are created when contract-based transactions create logs. Contains enriched data from table "Contract" and "Token" using contract ABI to e.g. decode name of the contract method.

See:

<https://docs.google.com/spreadsheets/d/1ehCIQxjSZcVLnddDWHBzhPb8h83mHWZxvyX9eckghbU/edit#gid=1505686545>

Event	
PK	id:text (composite)
	event: text
	log_index: numeric
	transaction_index: numeric
	transaction_hash: text
	block_hash: text
	timestamp: timestamp with time zone
	probability: numeric
	address: text
	block_number: numeric
	args: jsonb

Figure 1: The [Ethereum](#) Event Class

Id

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Primary Key

Description	ID
Datatype	text (composite)
Example	0x00000000cc7c3b7faeca2e5059320a584cedbaf55c82ced3e57948ae21e3609

Event

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Possible values: Transfer | Sync | Swapped | Burned | Birth | Approval | Cancel | Deposited | OnTokenPurchase | Swap | Mint | Deposit | OracleRequest | DividendPaid | buyLevelEvent ...

Description	The event name
Datatype	text
Example	Transfer

Log Index

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Description	Integer of the event index position in the block
Datatype	numeric
Example	82

Transaction Index

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Description	Integer of the transactions index position event was created from
Datatype	numeric
Example	33

Transaction Hash

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Description	Hash of the transactions this event was created from
Datatype	text
Example	0xeaf089acba8a7ca74feee1b35ca0ab62aa42c5ba3c746a4aed94a308d6a674fb

Block Hash

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Description	Hash of the block where this event was in
Datatype	text
Example	0x7eaea3baacd3b5ffb9833abf9c77a851db0feb874a93d97cfca89c9e891adaa2

Timestamp

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Description	Timestamp
Datatype	timestamp with time zone
Example	2020-02-21 23:34:19+00

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	0.9

Address

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Description	Address from which this event originated (which is the contract)
Datatype	text
Example	0x4D58b1E8007078eCc6eaf6DF7527b64E46831D23

Block Number

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Description	Block number where this event is located
Datatype	numeric
Example	9529604

Args

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Description	Array of argument objects coming from that event. Needed for executing method in contract (method parameters)
Datatype	jsonb

Example	<pre>[{"hex": "0x6cdFB19632E4D0805064B741d39c6Ff0A9141952", "pos": 0, "name": "from", "type": "address"}, {"hex": "0x35CdCbDB6a5Aef115B9306Ce9C79a69321300203", "pos": 1, "name": "to", "type": "address"}, {"hex": "0x11b", "num": 283, "pos": 2, "name": "value", "type": "uint256", "scaled": 2.83}]</pre>
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