

L2Transaction

Classes

L2TransactionReceipt

Extension of ethers-js TransactionReceipt, adding Arbitrum-specific functionality

Implements

- TransactionReceipt

Methods

getBatchConfirmations()

getBatchConfirmations (I2Provider : JsonRpcProvider) :

Promise < BigNumber

Get number of L1 confirmations that the batch including this tx has

Parameters

Parameter	Type	Description
I2Provider	JsonRpcProvider	

Returns

Promise < BigNumber

number of confirmations of batch including tx, or 0 if no batch included this tx

Source

[message/L2Transaction.ts:138](#)

getBatchNumber()

getBatchNumber (I2Provider : JsonRpcProvider) :

Promise < BigNumber

Get the number of the batch that included this tx (will throw if no such batch exists)

Parameters

Parameter	Type	Description
I2Provider	JsonRpcProvider	

Returns

Promise < BigNumber

number of batch in which tx was included, or errors if no batch includes the current tx

Source

[message/L2Transaction.ts:151](#)

getL2ToL1Events()

getL2ToL1Events () : L2ToL1TransactionEvent [] Get an L2ToL1TxEvent events created by this transaction

Returns

L2ToL1TransactionEvent []

Source

[message/L2Transaction.ts:97](#)

getL2ToL1Messages()

getL2ToL1Messages < T

(I1SignerOrProvider :

T) :

Promise < L2ToL1MessageReaderOrWriter < T

[]

Get any I2-to-I1-messages created by this transaction

Type parameters

Type parameter T extends SignerOrProvider

Parameters

Parameter Type I1SignerOrProvider T

Returns

Promise < [L2ToL1MessageReaderOrWriter](#) <T

[]>

Source

[message/L2Transaction.ts:119](#)

getRedeemScheduledEvents()

getRedeemScheduledEvents () : object [] Get event data for any redeems that were scheduled in this transaction

Returns

object []

Source

[message/L2Transaction.ts:111](#)

isDataAvailable()

isDataAvailable (I2Provider : JsonRpcProvider , confirmations :

number) :

Promise < boolean

Whether the data associated with this transaction has been made available on L1

Parameters

Parameter Type Default value Description I2Provider JsonRpcProvider undefined confirmations number 10 The number of confirmations on the batch before data is to be considered available

Returns

Promise <boolean

Source

[message/L2Transaction.ts:173](#)

monkeyPatchWait()

static

monkeyPatchWait (contractTransaction : ContractTransaction) : L2ContractTransaction Replaces the wait function with one that returns an L2TransactionReceipt

Parameters

Parameter	Type	Description
contractTransaction	ContractTransaction	

Returns

L2ContractTransaction

Source

[message/L2Transaction.ts:187](#)

toRedeemTransaction()

static

toRedeemTransaction (redeemTx : L2ContractTransaction , l2Provider : Provider) : RedeemTransaction Adds a waitForRedeem function to a redeem transaction

Parameters

Parameter	Type	Description
redeemTx	L2ContractTransaction	
l2Provider	Provider	

Returns

RedeemTransaction

Source

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