L1Transaction

Classes

L1ContractCallTransactionReceipt

An L1TransactionReceipt with additional functionality that only exists if the transaction created a single call to an L2 contract - this includes token deposits.

Extends

- L1TransactionReceipt

Methods

getEthDeposits()

getEthDeposits (l2Provider : Provider) :

Promise < EthDepositMessage [ ]

> Get any eth deposit messages created by this transaction

Parameters

Parameter Type l2Provider Provider

Returns

Promise <[EthDepositMessage](#) []>

Inherited from

L1TransactionReceipt.getEthDeposits

Source

[message/L1Transaction.ts:182](#)

getInboxMessageDeliveredEvents()

getInboxMessageDeliveredEvents ( ) : object [ ] Get any InboxMessageDelivered events that were emitted during this transaction

Returns

object []

Inherited from

L1TransactionReceipt.getInboxMessageDeliveredEvents

Source

[message/L1Transaction.ts:125](#)

getL1ToL2Messages()

getL1ToL2Messages < T

> (l2SignerOrProvider :

T) :

Promise < L1ToL2MessageReaderOrWriter < T

[ ]

Get any l1tol2 messages created by this transaction

Type parameters

Type parameter T extends SignerOrProvider

Parameters

Parameter Type Description l2SignerOrProvider T

Returns

Promise <[L1ToL2MessageReaderOrWriter](#) <T

[]>

Inherited from

L1TransactionReceipt.getL1ToL2Messages

Source

[message/L1Transaction.ts:239](#)

getL1ToL2MessagesClassic()

getL1ToL2MessagesClassic (l2Provider : Provider) :

Promise < L1ToL2MessageReaderClassic [ ]

Get classic l1tol2 messages created by this transaction

Parameters

Parameter Type Description l2Provider Provider

Returns

Promise

Inherited from

L1TransactionReceipt.getL1ToL2MessagesClassic

Source

[message/L1Transaction.ts:207](#)

getMessageDeliveredEvents()

getMessageDeliveredEvents ( ) : object [ ] Get any MessageDelivered events that were emitted during this transaction

Returns

object []

Inherited from

L1TransactionReceipt.getMessageDeliveredEvents

Source

[message/L1Transaction.ts:117](#)

getMessageEvents()

getMessageEvents ( ) : object [ ] Get combined data for any InboxMessageDelivered and MessageDelivered events emitted during this transaction

Returns

object []

Inherited from

L1TransactionReceipt.getMessageEvents

Source

message/L1Transaction.ts:138

getTokenDepositEvents()

getTokenDepositEvents ( ) : object [ ] Get any token deposit events created by this transaction

Returns

object []

Inherited from

L1TransactionReceipt.getTokenDepositEvents

Source

message/L1Transaction.ts:287

isClassic()

isClassic < T

(l2SignerOrProvider :

T) :

Promise < boolean

Check if is a classic transaction

Type parameters

Type parameter T extends SignerOrProvider

Parameters

Parameter Type Description l2SignerOrProvider T

Returns

Promise <boolean

Inherited from

L1TransactionReceipt.isClassic

Source

message/L1Transaction.ts:105

waitForL2()

waitForL2 < T

(l2SignerOrProvider :

T , confirmations ? :

number , timeout ? :

number) :

Promise < object & L1ToL2MessageWaitResult

Wait for the transaction to arrive and be executed on L2

Type parameters

Type parameter T extends SignerOrProvider

Parameters

Parameter Type Description l2SignerOrProvider T - confirmations ? number Amount of confirmations the retryable ticket and the auto redeem receipt should have timeout ? number Amount of time to wait for the retryable ticket to be created Defaults to 15 minutes, as by this time all transactions are expected to be included on L2. Throws on timeout.

Returns

Promise

The wait result containscomplete , astatus , an L1ToL2Message and optionally thel2TxReceipt . Ifcomplete is true then this message is in the terminal state. For contract calls this is true only if the status is REDEEMED. ##### Source[] (https://docs.arbitrum.io/welcome/get-started#source-8) [message/L1Transaction.ts:396] (https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L396) ##### monkeyPatchContractCallWait()[](https://docs.arbitrum.io/welcome/get-started#monkeypatchcontractcallwait) static monkeyPatchContractCallWait (contractTransaction : ContractTransaction) : L1ContractCallTransaction Replaces the wait function with one that returns an L1ContractCallTransactionReceipt ##### Parameters[] (https://docs.arbitrum.io/welcome/get-started#parameters-5) Parameter Type Description contractTransaction ContractTransaction ##### Returns[](https://docs.arbitrum.io/welcome/get-started#returns-9) L1ContractCallTransaction ##### Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-8) L1TransactionReceipt.monkeyPatchContractCallWait ##### Source[](https://docs.arbitrum.io/welcome/get-started#source-9) [message/L1Transaction.ts:332](https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L332) ##### monkeyPatchEthDepositWait()[](https://docs.arbitrum.io/welcome/get-started#monkeypatchethdepositwait) static monkeyPatchEthDepositWait (contractTransaction : ContractTransaction) : L1EthDepositTransaction Replaces the wait function with one that returns an L1EthDepositTransactionReceipt ##### Parameters[] (https://docs.arbitrum.io/welcome/get-started#parameters-6) Parameter Type Description contractTransaction ContractTransaction ##### Returns[](https://docs.arbitrum.io/welcome/get-started#returns-10) L1EthDepositTransaction ##### Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-9) L1TransactionReceipt.monkeyPatchEthDepositWait ##### Source[](https://docs.arbitrum.io/welcome/get-started#source-10) [message/L1Transaction.ts:316](https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L316) ##### monkeyPatchWait()[](https://docs.arbitrum.io/welcome/get-started#monkeypatchwait) static monkeyPatchWait (contractTransaction : ContractTransaction) : L1ContractTransaction < L1TransactionReceipt > Replaces the wait function with one that returns an L1TransactionReceipt ##### Parameters[](https://docs.arbitrum.io/welcome/get-started#parameters-7) Parameter Type Description contractTransaction ContractTransaction ##### Returns[] (https://docs.arbitrum.io/welcome/get-started#returns-11) L1ContractTransaction ##### Inherited from[] (https://docs.arbitrum.io/welcome/get-started#inherited-from-10) L1TransactionReceipt.monkeyPatchWait ##### Source[] (https://docs.arbitrum.io/welcome/get-started#source-11) [message/L1Transaction.ts:300] (https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L300) ### L1EthDepositTransactionReceipt[](https://docs.arbitrum.io/welcome/get-started#l1ethdeposittransactionreceipt) An L1TransactionReceipt with additional functionality that only exists if the transaction created a single eth deposit. #### Extends[](https://docs.arbitrum.io/welcome/get-started#extends-1) * L1TransactionReceipt #### Methods[] (https://docs.arbitrum.io/welcome/get-started#methods-1) ##### getEthDeposits()[](https://docs.arbitrum.io/welcome/get-started#getethdeposits-1) getEthDeposits (l2Provider : Provider) : Promise < EthDepositMessage [ ] > Get any eth deposit messages created by this transaction ##### Parameters[](https://docs.arbitrum.io/welcome/get-started#parameters-8) Parameter Type l2Provider Provider ##### Returns[](https://docs.arbitrum.io/welcome/get-started#returns-12) Promise <[EthDepositMessage](https://docs.arbitrum.io/sdk-docs/message/L1ToL2Message#ethdepositmessage) []> ##### Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-11) L1TransactionReceipt.getEthDeposits

Source[](https://docs.arbitrum.io/welcome/get-started#source-12) [message/L1Transaction.ts:182](https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L182)

getInboxMessageDeliveredEvents()[](https://docs.arbitrum.io/welcome/get-started#getinboxmessagedeliveredevents-1)

getInboxMessageDeliveredEvents ( ) : object [ ]

Get any InboxMessageDelivered events that were emitted during this transaction

Returns[](https://docs.arbitrum.io/welcome/get-started#returns-13)

object []

Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-12)

L1TransactionReceipt.getInboxMessageDeliveredEvents

Source[](https://docs.arbitrum.io/welcome/get-started#source-13) [message/L1Transaction.ts:125](https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L125)

getL1ToL2Messages()[](https://docs.arbitrum.io/welcome/get-started#getl1tol2messages-1)

getL1ToL2Messages < T > (l2SignerOrProvider : T) : Promise < L1ToL2MessageReaderOrWriter < T > [ ] >

Get any l1tol2 messages created by this transaction

Type parameters[](https://docs.arbitrum.io/welcome/get-started#type-parameters-3)

Type parameter T extends SignerOrProvider

Parameters[](https://docs.arbitrum.io/welcome/get-started#parameters-9)

Parameter Type Description l2SignerOrProvider T

Returns[](https://docs.arbitrum.io/welcome/get-started#returns-14)

Promise <[L1ToL2MessageReaderOrWriter](https://docs.arbitrum.io/sdk-docs/message/L1ToL2Message#l1tol2messagereaderorwritert) []>

Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-13)

L1TransactionReceipt.getL1ToL2Messages

Source[](https://docs.arbitrum.io/welcome/get-started#source-14) [message/L1Transaction.ts:239](https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L239)

getL1ToL2MessagesClassic()[](https://docs.arbitrum.io/welcome/get-started#getl1tol2messagesclassic-1)

getL1ToL2MessagesClassic (l2Provider : Provider) : Promise < L1ToL2MessageReaderClassic [ ] >

Get classic l1tol2 messages created by this transaction

Parameters[](https://docs.arbitrum.io/welcome/get-started#parameters-10)

Parameter Type Description l2Provider Provider

Returns[](https://docs.arbitrum.io/welcome/get-started#returns-15)

Promise

Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-14)

L1TransactionReceipt.getL1ToL2MessagesClassic

Source[](https://docs.arbitrum.io/welcome/get-started#source-15) [message/L1Transaction.ts:207](https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L207)

getMessageDeliveredEvents()[](https://docs.arbitrum.io/welcome/get-started#getmessagedeliveredevents-1)

getMessageDeliveredEvents ( ) : object [ ]

Get any MessageDelivered events that were emitted during this transaction

Returns[](https://docs.arbitrum.io/welcome/get-started#returns-16)

object []

Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-15)

L1TransactionReceipt.getMessageDeliveredEvents

Source[](https://docs.arbitrum.io/welcome/get-started#source-16) [message/L1Transaction.ts:117](https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L117)

getMessageEvents()[](https://docs.arbitrum.io/welcome/get-started#getmessageevents-1)

getMessageEvents ( ) : object [ ]

Get combined data for any InboxMessageDelivered and MessageDelivered events emitted during this transaction

Returns[](https://docs.arbitrum.io/welcome/get-started#returns-17)

object []

Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-16)

L1TransactionReceipt.getMessageEvents

Source[](https://docs.arbitrum.io/welcome/get-started#source-17) [message/L1Transaction.ts:138](https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L138)

getTokenDepositEvents()[](https://docs.arbitrum.io/welcome/get-started#gettokendepositevents-1)

getTokenDepositEvents ( ) : object [ ]

Get any token deposit events created by this transaction

Returns[](https://docs.arbitrum.io/welcome/get-started#returns-18)

object []

Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-17)

L1TransactionReceipt.getTokenDepositEvents

Source[](https://docs.arbitrum.io/welcome/get-started#source-18) [message/L1Transaction.ts:287](https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L287)

isClassic()[](https://docs.arbitrum.io/welcome/get-started#isclassic-1)

isClassic < T > (l2SignerOrProvider : T) : Promise < boolean >

Check if is a classic transaction

Type parameters[](https://docs.arbitrum.io/welcome/get-started#type-parameters-4)

Type parameter T extends SignerOrProvider

Parameters[](https://docs.arbitrum.io/welcome/get-started#parameters-11)

Parameter Type Description l2SignerOrProvider T

Returns[](https://docs.arbitrum.io/welcome/get-started#returns-19)

Promise

Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-18)

L1TransactionReceipt.isClassic

Source[](https://docs.arbitrum.io/welcome/get-started#source-19) [message/L1Transaction.ts:105](https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L105)

waitForL2()[](https://docs.arbitrum.io/welcome/get-started#waitforl2-1)

waitForL2 (l2Provider : Provider , confirmations ? : number , timeout ? : number) : Promise < object & EthDepositMessageWaitResult >

Wait for the funds to arrive on L2

Parameters[](https://docs.arbitrum.io/welcome/get-started#parameters-12)

Parameter Type Description l2Provider Provider - confirmations ? number Amount of confirmations the retryable ticket and the auto redeem receipt should have timeout ? number Amount of time to wait for the retryable ticket to be created Defaults to 15 minutes, as by this time all transactions are expected to be included on L2. Throws on timeout.

Returns[](https://docs.arbitrum.io/welcome/get-started#returns-20)

Promise

The wait result containscomplete , astatus , the L1ToL2Message and optionally thel2TxReceipt Ifcomplete is true then this message is in the terminal state. For eth deposits complete this is when the status is FUNDS_DEPOSITED, EXPIRED or REDEEMED.

Source[](https://docs.arbitrum.io/welcome/get-started#source-20) [message/L1Transaction.ts:358](https://github.com/OffchainLabs/arbitrum-sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L358)

#####

monkeyPatchContractCallWait()[](https://docs.arbitrum.io/welcome/get-started#monkeypatchcontractcallwait-1) static
monkeyPatchContractCallWait (contractTransaction : ContractTransaction) : L1ContractCallTransaction Replaces the wait
function with one that returns an L1ContractCallTransactionReceipt ###### Parameters[]
(https://docs.arbitrum.io/welcome/get-started#parameters-13) Parameter Type Description contractTransaction
ContractTransaction ###### Returns[](https://docs.arbitrum.io/welcome/get-started#returns-21) L1ContractCallTransaction
Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-19)
L1TransactionReceipt.monkeyPatchContractCallWait ###### Source[](https://docs.arbitrum.io/welcome/get-started#source-
21) [message/L1Transaction.ts:332](https://github.com/OffchainLabs/arbitrum-
sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L332) #####
monkeyPatchEthDepositWait()[](https://docs.arbitrum.io/welcome/get-started#monkeypatchethdepositwait-1) static
monkeyPatchEthDepositWait (contractTransaction : ContractTransaction) : L1EthDepositTransaction Replaces the wait
function with one that returns an L1EthDepositTransactionReceipt ###### Parameters[]
(https://docs.arbitrum.io/welcome/get-started#parameters-14) Parameter Type Description contractTransaction
ContractTransaction ###### Returns[](https://docs.arbitrum.io/welcome/get-started#returns-22) L1EthDepositTransaction
Inherited from[](https://docs.arbitrum.io/welcome/get-started#inherited-from-20)
L1TransactionReceipt.monkeyPatchEthDepositWait ###### Source[](https://docs.arbitrum.io/welcome/get-started#source-
22) [message/L1Transaction.ts:316](https://github.com/OffchainLabs/arbitrum-
sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L316) #####
monkeyPatchWait()[](https://docs.arbitrum.io/welcome/get-started#monkeypatchwait-1) static monkeyPatchWait (
contractTransaction : ContractTransaction) : L1ContractTransaction < L1TransactionReceipt > Replaces the wait function
with one that returns an L1TransactionReceipt ###### Parameters[](https://docs.arbitrum.io/welcome/get-
started#parameters-15) Parameter Type Description contractTransaction ContractTransaction ###### Returns[]
(https://docs.arbitrum.io/welcome/get-started#returns-23) L1ContractTransaction ###### Inherited from[]
(https://docs.arbitrum.io/welcome/get-started#inherited-from-21) L1TransactionReceipt.monkeyPatchWait ###### Source[]
(https://docs.arbitrum.io/welcome/get-started#source-23) [message/L1Transaction.ts:300]
(https://github.com/OffchainLabs/arbitrum-
sdk/blob/c8aa61ee10c7bb2f622c2603f3d2a81287390d4b/src/lib/message/L1Transaction.ts#L300) [Edit this page]
(https://github.com/OffchainLabs/arbitrum-docs/edit/master/arbitrum-docs/sdk-docs/message/L1Transaction.md) [Previous
L1ToL2MessageGasEstimator](https://docs.arbitrum.io/sdk-docs/message/L1ToL2MessageGasEstimator) [Next
L2ToL1Message](https://docs.arbitrum.io/sdk-docs/message/L2ToL1Message)