

ParentTransaction

Classes

ParentContractCallTransactionReceipt

A ParentTransactionReceipt with additional functionality that only exists if the transaction created a single call to a child chain contract - this includes token deposits.

Extends

- ParentTransactionReceipt

Methods

getEthDeposits()

getEthDeposits (childProvider : Provider) :

Promise < EthDepositMessage []

Get any eth deposit messages created by this transaction

Parameters

Parameter Type childProvider Provider

Returns

Promise <[EthDepositMessage](#) []>

Inherited from

ParentTransactionReceipt.getEthDeposits

Source

[message/ParentTransaction.ts:191](#)

getInboxMessageDeliveredEvents()

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

Returns

object []

Inherited from

ParentTransactionReceipt.getInboxMessageDeliveredEvents

Source

[message/ParentTransaction.ts:134](#)

getMessageDeliveredEvents()

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

Returns

object []

Inherited from

ParentTransactionReceipt.getMessageDeliveredEvents

Source

[message/ParentTransaction.ts:126](#)

getMessageEvents()

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

Returns

object []

Inherited from

ParentTransactionReceipt.getMessageEvents

Source

[message/ParentTransaction.ts:147](#)

getParentToChildMessages()

getParentToChildMessages < T

(childSignerOrProvider :

T) :

Promise < ParentToChildMessageReaderOrWriter < T

[]

Get any parent-to-child messages created by this transaction

Type parameters

Type parameter T extends SignerOrProvider

Parameters

Parameter Type Description childSignerOrProvider T

Returns

Promise <[ParentToChildMessageReaderOrWriter](#) <T

[]>

Inherited from

ParentTransactionReceipt.getParentToChildMessages

Source

[message/ParentTransaction.ts:248](#)

getParentToChildMessagesClassic()

getParentToChildMessagesClassic (childProvider : Provider) :

Promise < ParentToChildMessageReaderClassic []

Get classic parent-to-child messages created by this transaction

Parameters

Parameter Type Description childProvider Provider

Returns

Promise

Inherited from

ParentTransactionReceipt.getParentToChildMessagesClassic

Source

[message/ParentTransaction.ts:216](#)

getTokenDepositEvents()

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

Returns

object []

Inherited from

ParentTransactionReceipt.getTokenDepositEvents

Source

[message/ParentTransaction.ts:298](#)

isClassic()

isClassic < T

(childSignerOrProvider :

T) :

Promise < boolean

Check if is a classic transaction

Type parameters

Type parameter T extends SignerOrProvider

Parameters

Parameter Type Description childSignerOrProvider T

Returns

Promise <boolean

Inherited from

ParentTransactionReceipt.isClassic

Source

[message/ParentTransaction.ts:106](#)

waitForChildTransactionReceipt()

waitForChildTransactionReceipt < T

(childSignerOrProvider :

T , confirmations ? :

number , timeout ? :

number) :

Promise < object & ParentToChildMessageWaitForStatusResult

Wait for the transaction to arrive and be executed on the child chain

Type parameters

Type parameter T extends SignerOrProvider

Parameters

Parameter Type Description childSignerOrProvider 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 the child chain. Throws on timeout.

Returns

Promise

The wait result contains complete , a status , a ParentToChildMessage and optionally the childTxReceipt . If complete 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/ParentTransaction.ts:407] (https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L407) ##### monkeyPatchContractCallWait() (https://docs.arbitrum.io/welcome/get-started#monkeypatchcontractcallwait) static monkeyPatchContractCallWait (contractTransaction : ContractTransaction) : ParentContractCallTransaction Replaces the wait function with one that returns a [ParentContractCallTransactionReceipt] (https://docs.arbitrum.io/sdk/reference/message/ParentTransaction#parentcontractcalltransactionreceipt) ##### 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) ParentContractCallTransaction ##### Inherited from[] (https://docs.arbitrum.io/welcome/get-started#inherited-from-8) ParentTransactionReceipt.monkeyPatchContractCallWait ##### Source[] (https://docs.arbitrum.io/welcome/get-started#source-9) [message/ParentTransaction.ts:343] (https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L343) ##### monkeyPatchEthDepositWait() (https://docs.arbitrum.io/welcome/get-started#monkeypatchethdepositwait) static monkeyPatchEthDepositWait (contractTransaction : ContractTransaction) : ParentEthDepositTransaction Replaces the wait function with one that returns a [ParentEthDepositTransactionReceipt] (https://docs.arbitrum.io/sdk/reference/message/ParentTransaction#parentethdeposittransactionreceipt) ##### 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) ParentEthDepositTransaction ##### Inherited from[] (https://docs.arbitrum.io/welcome/get-started#inherited-from-9) ParentTransactionReceipt.monkeyPatchEthDepositWait ##### Source[] (https://docs.arbitrum.io/welcome/get-started#source-10) [message/ParentTransaction.ts:327] (https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L327) ##### monkeyPatchWait() (https://docs.arbitrum.io/welcome/get-started#monkeypatchwait) static monkeyPatchWait (contractTransaction : ContractTransaction) : ParentContractTransaction < ParentTransactionReceipt > Replaces the wait function with one that returns a ParentTransactionReceipt ##### 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) ParentContractTransaction ##### Inherited from[] (https://docs.arbitrum.io/welcome/get-started#inherited-from-10) ParentTransactionReceipt.monkeyPatchWait ##### Source[] (https://docs.arbitrum.io/welcome/get-started#source-11) [message/ParentTransaction.ts:311] (https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L311) ### ParentEthDepositTransactionReceipt[] (https://docs.arbitrum.io/welcome/get-started#parentethdeposittransactionreceipt) A ParentTransactionReceipt with additional functionality that only exists if the transaction created a single eth deposit. ##### Extends[] (https://docs.arbitrum.io/welcome/get-started#extends-1) * ParentTransactionReceipt ##### Methods[] (https://docs.arbitrum.io/welcome/get-started#methods-1) ##### getEthDeposits() (https://docs.arbitrum.io/welcome/get-started#getethdeposits-1) getEthDeposits (childProvider : Provider) : Promise < EthDepositMessage [] > Get any eth deposit messages created by this transaction ##### Parameters[] (https://docs.arbitrum.io/welcome/get-started#parameters-8) Parameter Type childProvider Provider ##### Returns[] (https://docs.arbitrum.io/welcome/get-

started#returns-12) Promise <[EthDepositMessage]
(<https://docs.arbitrum.io/sdk/reference/message/ParentToChildMessage#ethdepositmessage>) []> ##### Inherited from[]
(<https://docs.arbitrum.io/welcome/get-started#inherited-from-11>) ParentTransactionReceipt.getEthDeposits ##### Source[]
(<https://docs.arbitrum.io/welcome/get-started#source-12>) [message/ParentTransaction.ts:191]
(<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L191>) #####
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>)
ParentTransactionReceipt.getInboxMessageDeliveredEvents ##### Source[](<https://docs.arbitrum.io/welcome/get-started#source-13>) [message/ParentTransaction.ts:134](<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L134>) #####
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-14>) object [] ##### Inherited from[]
(<https://docs.arbitrum.io/welcome/get-started#inherited-from-13>) ParentTransactionReceipt.getMessageDeliveredEvents
Source[](<https://docs.arbitrum.io/welcome/get-started#source-14>) [message/ParentTransaction.ts:126]
(<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L126>) #####
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-15>) object [] ##### Inherited from[]
(<https://docs.arbitrum.io/welcome/get-started#inherited-from-14>) ParentTransactionReceipt.getMessageEvents #####
Source[](<https://docs.arbitrum.io/welcome/get-started#source-15>) [message/ParentTransaction.ts:147]
(<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L147>) #####
getParentToChildMessages()[(<https://docs.arbitrum.io/welcome/get-started#getparenttochildmessages-1>)
getParentToChildMessages < T > (childSignerOrProvider : T) : Promise < ParentToChildMessageReaderOrWriter < T > []
> Get any parent-to-child 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 childSignerOrProvider
T ##### Returns[](<https://docs.arbitrum.io/welcome/get-started#returns-16>) Promise
<[ParentToChildMessageReaderOrWriter]
(<https://docs.arbitrum.io/sdk/reference/message/ParentToChildMessage#parenttochildmessagereaderorwriter>) []> #####
Inherited from[](<https://docs.arbitrum.io/welcome/get-started#inherited-from-15>)
ParentTransactionReceipt.getParentToChildMessages ##### Source[](<https://docs.arbitrum.io/welcome/get-started#source-16>) [message/ParentTransaction.ts:248](<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L248>) #####
getParentToChildMessagesClassic()[(<https://docs.arbitrum.io/welcome/get-started#getparenttochildmessagesclassic-1>)
getParentToChildMessagesClassic (childProvider : Provider) : Promise < ParentToChildMessageReaderClassic [] > Get
classic parent-to-child messages created by this transaction ##### Parameters[](<https://docs.arbitrum.io/welcome/get-started#parameters-10>) Parameter Type Description childProvider Provider ##### Returns[]
(<https://docs.arbitrum.io/welcome/get-started#returns-17>) Promise ##### Inherited from[]
(<https://docs.arbitrum.io/welcome/get-started#inherited-from-16>)
ParentTransactionReceipt.getParentToChildMessagesClassic ##### Source[](<https://docs.arbitrum.io/welcome/get-started#source-17>) [message/ParentTransaction.ts:216](<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L216>) #####
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>)
ParentTransactionReceipt.getTokenDepositEvents ##### Source[](<https://docs.arbitrum.io/welcome/get-started#source-18>) [message/ParentTransaction.ts:298](<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L298>) ##### isClassic()[(<https://docs.arbitrum.io/welcome/get-started#isclassic-1>) isClassic < T > (childSignerOrProvider : 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 childSignerOrProvider T ##### Returns[](<https://docs.arbitrum.io/welcome/get-started#returns-19>) Promise ##### Inherited from[](<https://docs.arbitrum.io/welcome/get-started#inherited-from-18>)
ParentTransactionReceipt.isClassic ##### Source[](<https://docs.arbitrum.io/welcome/get-started#source-19>) [message/ParentTransaction.ts:106](<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L106>) #####
waitForChildTransactionReceipt()[(<https://docs.arbitrum.io/welcome/get-started#waitforchildtransactionreceipt-1>)
waitForChildTransactionReceipt (childProvider : Provider , confirmations ? : number , timeout ? : number) : Promise <
object & EthDepositMessageWaitForStatusResult > Wait for the funds to arrive on the child chain ##### Parameters[]
(<https://docs.arbitrum.io/welcome/get-started#parameters-12>) Parameter Type Description childProvider 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 the child chain. Throws on timeout. ##### Returns[](<https://docs.arbitrum.io/welcome/get-started#returns-20>) Promise The wait result contains complete , astatus , the ParentToChildMessage and optionally the childTxReceipt If complete 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/ParentTransaction.ts:369](<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L369>) ##### monkeyPatchContractCallWait()[](<https://docs.arbitrum.io/welcome/get-started#monkeypatchcontractcallwait-1>) static monkeyPatchContractCallWait (contractTransaction : ContractTransaction) : ParentContractCallTransaction Replaces the wait function with one that returns a[ParentContractCallTransactionReceipt] (<https://docs.arbitrum.io/sdk/reference/message/ParentTransaction#parentcontractcalltransactionreceipt>) ##### 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>) ParentContractCallTransaction ##### Inherited from[](<https://docs.arbitrum.io/welcome/get-started#inherited-from-19>) ParentTransactionReceipt.monkeyPatchContractCallWait ##### Source[](<https://docs.arbitrum.io/welcome/get-started#source-21>) [message/ParentTransaction.ts:343](<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L343>) ##### monkeyPatchEthDepositWait()[](<https://docs.arbitrum.io/welcome/get-started#monkeypatchethdepositwait-1>) static monkeyPatchEthDepositWait (contractTransaction : ContractTransaction) : ParentEthDepositTransaction Replaces the wait function with one that returns a[ParentEthDepositTransactionReceipt] (<https://docs.arbitrum.io/sdk/reference/message/ParentTransaction#parentethdeposittransactionreceipt>) ##### 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>) ParentEthDepositTransaction ##### Inherited from[](<https://docs.arbitrum.io/welcome/get-started#inherited-from-20>) ParentTransactionReceipt.monkeyPatchEthDepositWait ##### Source[](<https://docs.arbitrum.io/welcome/get-started#source-22>) [message/ParentTransaction.ts:327](<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L327>) ##### monkeyPatchWait()[](<https://docs.arbitrum.io/welcome/get-started#monkeypatchwait-1>) static monkeyPatchWait (contractTransaction : ContractTransaction) : ParentContractTransaction < ParentTransactionReceipt > Replaces the wait function with one that returns a ParentTransactionReceipt ##### 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>) ParentContractTransaction ##### Inherited from[](<https://docs.arbitrum.io/welcome/get-started#inherited-from-21>) ParentTransactionReceipt.monkeyPatchWait ##### Source[](<https://docs.arbitrum.io/welcome/get-started#source-23>) [message/ParentTransaction.ts:311] (<https://github.com/OffchainLabs/arbitrum-sdk/blob/f5b3d04baf62356032f5475057637d989da5b6c1/src/lib/message/ParentTransaction.ts#L311>) [Edit this page] (<https://github.com/OffchainLabs/arbitrum-docs/edit/master/arbitrum-docs/sdk/reference/message/ParentTransaction.md>) [Previous ParentToChildMessageGasEstimator] (<https://docs.arbitrum.io/sdk/reference/message/ParentToChildMessageGasEstimator>) [Next ArbProvider] (<https://docs.arbitrum.io/sdk/reference/utils/arbProvider>)