L2ToL1MessageNitro

Classes

L2ToL1MessageNitro

Base functionality for nitro L2->L1 messages

Extended by

• L2ToL1MessageReaderNitro

Methods

fromEvent()

static

fromEvent < T

(I1SignerOrProvider:

T, event: object, I1Provider?: Provider): L2ToL1MessageReaderOrWriterNitro < T

Instantiates a newL2ToL1MessageWriterNitro orL2ToL1MessageReaderNitro object.

Type parameters

Type parameter T extends SignerOrProvider

Parameters

Parameter Type Description I1SignerOrProvider T Signer or provider to be used for executing or reading the L2-to-L1 message. event object The event containing the data of the L2-to-L1 message. event.arbBlockNum BigNumber - event.caller ? string - event.callvalue ? BigNumber - event.data ? string - event.destination ? string - event.ethBlockNum ? BigNumber - event.hash ? BigNumber - event.position ? BigNumber - event.timestamp ? BigNumber - I1Provider ? Provider Optional. Used to override the Provider which is attached tol1SignerOrProvider in case you need more control. This will be a required parameter in a future major version update.

Returns

L2ToL1MessageReaderOrWriterNitro <T

Source

message/L2ToL1MessageNitro.ts:136

L2ToL1MessageReaderNitro

Provides read-only access nitro for I2-to-I1-messages

Extends

• L2ToL1MessageNitro

Extended by

• L2ToL1MessageWriterNitro

Methods

getFirstExecutableBlock()

getFirstExecutableBlock (I2Provider : Provider) :

Promise < null | BigNumber Estimates the L1 block number in which this L2 to L1 tx will be available for execution. If the message can or already has been executed, this returns null **Parameters** Parameter Type Description I2Provider Provider Returns Promise < null |BigNumber expected L1 block number where the L2 to L1 message will be executable. Returns null if the message can be or already has been executed Source message/L2ToL1MessageNitro.ts:419 hasExecuted() protected hasExecuted (I2Provider: Provider): Promise < boolean Check if this message has already been executed in the Outbox **Parameters** Parameter Type I2Provider Provider Returns Promise <boolean Source message/L2ToL1MessageNitro.ts:207 status() status (I2Provider : Provider) : Promise < L2ToL1MessageStatus Get the status of this message In order to check if the message has been executed proof info must be provided. **Parameters** Parameter Type I2Provider Provider Returns Promise <L2ToL1MessageStatus Source

waitUntilReadyToExecute()

message/L2ToL1MessageNitro.ts:222

waitUntilReadyToExecute (I2Provider : Provider , retryDelay :

```
number ) :
Promise < CONFIRMED

|
EXECUTED

Waits until the outb
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Waits until the outbox entry has been created, and will not return until it has been. WARNING: Outbox entries are only created when the corresponding node is confirmed. Which can take 1 week+, so waiting here could be a very long operation.

Parameters

Parameter Type Default value Description I2Provider Provider undefined - retryDelay number 500

Returns

Promise < CONFIRMED | EXECUTED

outbox entry status (either executed or confirmed but not pending)

Source

message/L2ToL1MessageNitro.ts:397

fromEvent()

static

fromEvent < T

(I1SignerOrProvider:

T, event: object, I1Provider?: Provider): L2ToL1MessageReaderOrWriterNitro < T

Instantiates a newL2ToL1MessageWriterNitro orL2ToL1MessageReaderNitro object.

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Returns

<u>L2ToL1MessageReaderOrWriterNitro</u> <T

Inherited from

L2ToL1MessageNitro .fromEvent

Source

message/L2ToL1MessageNitro.ts:136

L2ToL1MessageWriterNitro

Provides read and write access for nitro I2-to-I1-messages

Extends

L2ToL1MessageReaderNitro

Constructors

new L2ToL1MessageWriterNitro()

new

L2ToL1MessageWriterNitro (I1Signer : Signer , event : object , I1Provider ? : Provider) : L2ToL1MessageWriterNitro Instantiates a newL2ToL1MessageWriterNitro object.

Parameters

Parameter Type Description I1Signer Signer The signer to be used for executing the L2-to-L1 message. event object The event containing the data of the L2-to-L1 message. event.arbBlockNum BigNumber - event.caller ? string - event.callvalue ? BigNumber - event.data ? string - event.destination ? string - event.ethBlockNum ? BigNumber - event.hash ? BigNumber - event.hash ? BigNumber - event.position ? BigNumber - event.timestamp ? BigNumber - I1Provider ? Provider Optional. Used to override the Provider which is attached tol1Signer in case you need more control. This will be a required parameter in a future major version update.

Returns

L2ToL1MessageWriterNitro

Overrides

L2ToL1MessageReaderNitro.constructor

Source

message/L2ToL1MessageNitro.ts:514

Properties

Property Modifier Type Description I1Signer private Signer The signer to be used for executing the L2-to-L1 message.

Methods

execute()

execute (I2Provider : Provider , overrides ? : Overrides) :

Promise < ContractTransaction

Executes the L2ToL1Message on L1. Will throw an error if the outbox entry has not been created, which happens when the corresponding assertion is confirmed.

Parameters

Parameter Type I2Provider Provider overrides ? Overrides

Returns

Promise < ContractTransaction

Source

message/L2ToL1MessageNitro.ts:528

getFirstExecutableBlock()

getFirstExecutableBlock (I2Provider : Provider) :

Promise < null

| BigNumber

Estimates the L1 block number in which this L2 to L1 $\,$ tx will be available for execution. If the message can or already has been executed, this returns null

Pa	ra	m	ete	ers

Parameter Type Description I2Provider Provider

Returns

Promise < null |BigNumber

expected L1 block number where the L2 to L1 message will be executable. Returns null if the message can be or already has been executed

Inherited from

<u>L2ToL1MessageReaderNitro</u> .getFirstExecutableBlock

Source

message/L2ToL1MessageNitro.ts:419

hasExecuted()

protected

hasExecuted (I2Provider : Provider) :

Promise < boolean

Check if this message has already been executed in the Outbox

Parameters

Parameter Type I2Provider Provider

Returns

Promise <boolean

Inherited from

L2ToL1MessageReaderNitro .hasExecuted

Source

message/L2ToL1MessageNitro.ts:207

status()

status (I2Provider : Provider) :

Promise < L2ToL1MessageStatus

Get the status of this message In order to check if the message has been executed proof info must be provided.

Parameters

Parameter Type I2Provider Provider

Returns

Promise <L2ToL1MessageStatus

Inherited from

L2ToL1MessageReaderNitro .status

message/L2ToL1MessageNitro.ts:222

waitUntilReadyToExecute()

```
waitUntilReadyToExecute ( I2Provider : Provider , retryDelay : number ) :

Promise < CONFIRMED
```

EXECUTED

Waits until the outbox entry has been created, and will not return until it has been. WARNING: Outbox entries are only created when the corresponding node is confirmed. Which can take 1 week+, so waiting here could be a very long operation.

Parameters

Parameter Type Default value Description I2Provider Provider undefined - retryDelay number 500

Returns

Promise < CONFIRMED | EXECUTED

outbox entry status (either executed or confirmed but not pending)

Inherited from

<u>L2ToL1MessageReaderNitro</u> .waitUntilReadyToExecute

Source

message/L2ToL1MessageNitro.ts:397

fromEvent()

static

fromEvent < T

(I1SignerOrProvider:

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Returns

L2ToL1MessageReaderOrWriterNitro <T

Inherited from

Source

message/L2ToL1MessageNitro.ts:136

Type Aliases

L2ToL1MessageReaderOrWriterNitro

type

L2ToL1MessageReaderOrWriterNitro < T

Т

extends

Provider

? L2ToL1MessageReaderNitro : L2ToL1MessageWriterNitro ; Conditional type for Signer or Provider. If T is of type Provider then L2ToL1MessageReaderOrWriter will be of type L2ToL1MessageReader. If T is of type Signer then L2ToL1MessageReaderOrWriter will be of type L2ToL1MessageWriter.

Type parameters

Type parameter T extends SignerOrProvider

Source

message/L2ToL1MessageNitro.ts:57 Edit this page Previous L2ToL1MessageClassic Next L2Transaction