# ethBridger

## **Classes**

## **EthBridger**

Bridger for moving ETH back and forth between L1 to L2

### **Extends**

- AssetBridger
- <EthDepositParams</li>
- |EthDepositToParams
- |L1ToL2TxReqAndSigner
- ,EthWithdrawParams
- |L2ToL1TxReqAndSigner

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### Methods

Inherited from

```
checkL1Network()
protected
checkL1Network (sop:SignerOrProvider):
Promise < void
     Check the signer/provider matches the I1Network, throws if not
Parameters
Parameter Type Description sop SignerOrProvider
Returns
Promise < void
Inherited from
AssetBridger .checkL1Network
Source
assetBridger/assetBridger.ts:48
checkL2Network()
protected
checkL2Network (sop: SignerOrProvider):
Promise < void
     Check the signer/provider matches the I2Network, throws if not
Parameters
Parameter Type Description sop SignerOrProvider
Returns
Promise <void
```

```
AssetBridger .checkL2Network
Source
assetBridger/assetBridger.ts:56
deposit()
deposit ( params : EthDepositParams | L1ToL2TxReqAndSigner ) :
Promise < L1EthDepositTransaction
     Deposit ETH from L1 onto L2
Parameters
Parameter Type Description params EthDepositParams |L1ToL2TxReqAndSigner
Returns
Promise <L1EthDepositTransaction
Overrides
AssetBridger .deposit
Source
assetBridger/ethBridger.ts:179
depositTo()
depositTo ( params : EthDepositToParams | L1ToL2TransactionRequest & object & object ) :
Promise < L1ContractCallTransaction
     Deposit ETH from L1 onto a different L2 address
Parameters
Parameter Type Description params EthDepositToParams <u>L1ToL2TransactionRequest</u> & object & object
Returns
Promise <L1ContractCallTransaction
Source
assetBridger/ethBridger.ts:231
getDepositRequest()
getDepositRequest ( params : EthDepositRequestParams ) :
Promise < OmitTyped < L1ToL2TransactionRequest,
"retryableData"
           Get a transaction request for an eth deposit
Parameters
Parameter Type Description params EthDepositRequestParams
Returns
```

Promise < <a href="OmitTyped">OmitTyped</a> <a href="L1ToL2TransactionRequest">L1ToL2TransactionRequest</a>, "retryableData"

```
assetBridger/ethBridger.ts:149
```

```
getDepositToRequest()
```

getDepositToRequest ( params : EthDepositToRequestParams ) :

Promise < L1ToL2TransactionRequest

Get a transaction request for an ETH deposit to a different L2 address using Retryables

**Parameters** 

Parameter Type Description params EthDepositToRequestParams

Returns

Promise < L1ToL2TransactionRequest

Source

assetBridger/ethBridger.ts:204

getWithdrawalRequest()

getWithdrawalRequest ( params : EthWithdrawParams ) :

Promise < L2ToL1TransactionRequest

Get a transaction request for an eth withdrawal

**Parameters** 

Parameter Type Description params EthWithdrawParams

Returns

Promise < L2ToL1TransactionRequest

Source

assetBridger/ethBridger.ts:260

withdraw()

withdraw (params: L2ToL1TxReqAndSigner | EthWithdrawParams & object):

Promise < L2ContractTransaction

Withdraw ETH from L2 onto L1

Parameters

Parameter Type Description params L2ToL1TxReqAndSigner |EthWithdrawParams &object

Returns

Promise <L2ContractTransaction

Overrides

AssetBridger .withdraw

Source

assetBridger/ethBridger.ts:290

fromProvider()
static
fromProvider ( I2Provider : Provider ) :
Promise < EthBridger
Instantiates a new EthBridger from an L2 Provider
Parameters
Parameter Type Description I2Provider Provider

Returns

Promise < EthBridger

Source

assetBridger/ethBridger.ts:140 Edit this page Previous Erc20Bridger Next Address