SdkShared

SDK class encapsulating shared logic to be inherited.

Hierarchy

- SdkShared
- ↳ SdkBase
- ↳ SdkRouter
- ↳ SdkPool
- ↳ SdkUtils
-

Methods

approveIfNeeded

▶ approveIfNeeded (domainId ,assetId ,amount ,infiniteApprove?):Promise <undefined |TransactionRequest

Returns the transaction request for an allowance approval.

Parameters

Name Type Default value Description domainId string undefined The domain ID. assetId string undefined The address of the token. amount string undefined The amount of the token. infiniteApprove boolean true (optional) Whether to approve an infinite amount. Returns

Promise <undefined |TransactionRequest

providers.TransactionRequest object.

calculateCanonicalKey

▶ calculateCanonicalKey (domainId ,canonicalId):string

Returns the hash of the canonical ID + canonical domain.

Remarks

This key is used as the unique identifier for a canonical token, across all domains.

Parameters

Name Type Description domainId string The canonical domain ID of the token. canonicalId string The canonical ID of the token. Returns

string

changeSignerAddress

▶ changeSignerAddress (signerAddress):Promise <void

Switches the signer address in the SDK config.

Parameters

Name Type Description signerAddress string The new signer address. Returns

Promise <void

getAssetsData

▶ getAssetsData ():Promise

Fetches the list of registered assets.

Returns

Promise

Array of objects containing assets registered to the network, in the form of:

```

```

Copy { "local":"0x2983bf5c334743aa6657ad70a55041d720d225db",
"adopted":"0x82af49447d8a07e3bd95bd0d56f35241523fbab1",
"canonical_id":"0x000000000000000000000000c02aaa39b223fe8d0a0e5c4f27ead9083c756cc2",
"canonical_domain":"6648936", "domain":"1634886255",
"key":"0x12acadfa38ab02479ae587196a9043ee4d8bf52fcb96b7f8d2ba240f03bcd08a",
"id":"0x2983bf5c334743aa6657ad70a55041d720d225db" },

```

```

getAssetsDataByDomainAndKey

▶getAssetsDataByDomainAndKey (domainId ,key):Promise <undefined |AssetData

Retrieve the asset data for a specific domain and key.

Parameters

Name Type Description domainId string The domain ID. key string The canonical hash of the canonical token. Returns

Promise <undefined |AssetData

The object containing asset data.

getCanonicalTokenId

▶getCanonicalTokenId (domainId ,tokenAddress):Promise <[string ,string]>

Returns the canonical ID and canonical domain of a token.

Parameters

Name Type Description domainId string The canonical domain ID of the token. tokenAddress string The address of the token. Returns

Promise <[string ,string]>

getSupported

▶getSupported ():Promise

Fetches the list of supported networks and assets.

Returns

Promise

Array of objects containing networks and assets supported by the protocol, in the form of:

```

```

Copy { "name":"arbitrum", "chainId":42161, "domainId":"1634886255", "assets": [
"0x82af49447d8a07e3bd95bd0d56f35241523fbab1", "0xff970a61a04b1ca14834a43f5de4533ebddb5cc8"] },

```

```

isNextAsset

▶isNextAsset (tokenAddress):Promise <undefined |boolean

Returns whether the specified token is a Connext-issued (local) token.

Parameters

Name Type Description tokenAddress string The address of the token. Returns

Promise <undefined |boolean

Boolean or undefined if the specified token is not registered.

parseConnextTransactionReceipt

▶parseConnextTransactionReceipt (transactionReceipt):any

Parses a providers.TransactionReceipt for the logs.

Parameters

Name Type Description transactionReceipt TransactionReceipt providers.TransactionReceipt object. Returns

any

Array of providers.Log objects.

domainToChainName

▶Static domainToChainName (domainId):string

Returns the chain name for a specified domain.

Parameters

Name Type Description domainId string The domain ID. Returns

string

The chain name.

chainIdToDomain

▶Static chainIdToDomain(chainId):number

Returns the chain name for a specified domain.

Parameters

Name Type Description chainId number The domain ID. Returns

number

The domain of the chain.

getBlockNumberFromUnixTimestamp

▶Static getBlockNumberFromUnixTimestamp (domainId ,unixTimestamp):Promise <number

Uses an external API to fetch the block number from a unix timestamp.

Parameters

Name Type Description domainId string The domain ID. unixTimestamp number The unix timestamp. Returns

Promise <number

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