SNIP721 (Secret NFTs)

Learn how to send SNIP721s with SecretJS.

Secret Network Client Setup

```

Copy import{ SecretNetworkClient,Wallet }from"secretjs";

constwallet=newWallet("Your mnemonic words go here");

constsecretjs=newSecretNetworkClient({ chainId:"pulsar-3", url:"https://api.pulsar3.scrttestnet.com", wallet:wallet, walletAddress:wallet.address, });

```

Add Minter

```

Copy const addMinterMsg = await secretjs.tx.snip721.addMinter( { contract_address: contractAddress, msg: { add_minters: { minters: [accounts[0].address] } }, sender: accounts[0].address, }, { gasLimit: 100_000, }, );

```

Mint SNIP721 Token

```

Copy constmintMsg=awaitsecretjs.tx.snip721.mint( { contract_address:contractAddress, sender:accounts[0].address, msg:{ mint_nft:{ token_id:"1", }, }, }, { gasLimit:200_000, }, );

```

Send SNIP721 Token

```

Copy consttxExec=awaitsecretjs.tx.snip721.send( { sender:secretjs.address, contract_address:contractAddress, msg:{ send_nft:{ contract:accounts[1].address, token_id:"1", }, }, }, { gasLimit:50_000, }, );

```

Add Minter and Mint in a Single Transaction

```

Copy constaddMinterMsg=newMsgExecuteContract({ sender:accounts[0].address, contract_address:contractAddress, // codeHash, // Test MsgExecuteContract without codeHash msg:{ add_minters:{ minters:[accounts[0].address] } }, sentFunds: [], });

constmintMsg=newMsgExecuteContract({ sender:accounts[0].address, contract_address:contractAddress, code_hash:codeHash, msg:{ mint_nft:{ token_id:"1", owner:accounts[0].address, public_metadata:{ extension:{ image: "https://scrt.network/secretnetwork-logo-secondary-black.png", name:"secretnetwork-logo-secondary-black", }, }, private_metadata:{ extension:{ image: "https://scrt.network/secretnetwork-logo-primary-white.png", name:"secretnetwork-logo-primary-white", }, }, }, }, sentFunds:[], });

consttx=awaitsecretjs.tx.broadcast([addMinterMsg,mintMsg],{ gasLimit:5_000_000, });

```

Query Tokens with Permit

```

Copy letpermit=awaitsecretjs.utils.accessControl.permit.sign(accounts[0].address,"secretdev-1","Test",[contractAddress], ["owner"],false)

lettokens2=awaitsecretjs.query.snip721.GetOwnedTokens({ contract:{ address:contractAddress,codeHash }, owner:accounts[0].address, auth:{ permit:permit }, });
```

Query Tokens with Viewing Key

Copy
```
awaitsecretjs.tx.snip721.setViewingKey( { contract_address:contractAddress, sender:accounts[0].address, msg:{ set_viewing_key:{ key:"hello", }, }, }, { gasLimit:100_000, }, );

lettokens=awaitsecretjs.query.snip721.GetOwnedTokens({ contract:{ address:contractAddress,codeHash }, owner:accounts[0].address, auth:{ viewer:{ viewing_key:"hello",address:accounts[0].address } }, });
```

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