Tokens

Get a token object through thegetToken(tokenSymbol) function on the tokenService.

The list of tokens that can be passed intogetToken() are: SAI, MKR, WETH, PETH, ETH.

This list can also be obtained withtokenService.getTokens() . This function returns a string representation of the token symbol, e.g. 'SAI', which can also be passed intogetToken .

When the Multi-Collateral Dai plugin is in use,getToken('DAI') will return a token object for Dai.

```
Copy consttokenService=maker.service('token'); constsai=tokenService.getToken('SAI');
constweth=tokenService.getToken('WETH'); constpeth=tokenService.getToken('PETH');
```

Most of the methods below can be called on any token object.deposit andwithdraw are for WETH only, andjoin andexit are for PETH only.

allowance

```
Copy constallowance=awaitdai.allowance('0x...owner','0x...spender');
```

- Params:
- tokenOwner
-
    - address of token owner
- spender
-
    - address of token spender
- Returns: promise (resolves to token allowance)
-

allowance returns acurrency unit representing the token allowance.

balance

```
Copy constbalance=awaitdai.balance();
```

- Params: none
- Returns: promise (resolves balance of current account)
-

balance returns acurrency unit representing the token balance of the current account

balanceOf

```
Copy constbalanceOf=awaitdai.balanceOf('0x...f00');
```

- Params: address to check
- Returns: promise (resolves balance of address)
-

balanceOf returns acurrency unit representing the token balance of the supplied account.

totalSupply

```
Copy consttotalSupply=awaitdai.totalSupply();
```

- Params: none
- Returns: promise (resolves total supply of token)
-

totalSupply returns acurrency unit representing the total token supply

approve

```
Copy returnawaitdai.approve('0x...f00',DAI(10));
```

- Params:
- spender - address of token spender
- amount - amount of token to allow
- Returns: promise (resolves totransactionObject
- once mined)
-

approve approves the spending address to spend up toamount ofmsg.sender 's tokens.

approveUnlimited

```
Copy returnawaitdai.approveUnlimited('0x...f00');
```

- Params: address of token spender
- Returns: promise (resolves totransactionObject
- once mined)
-

approveUnlimited approves the spending address to spend the maximum amount ofmsg.sender 's tokens.

transfer

```
Copy returnawaitdai.transfer('0x...f00',DAI(10));
```

- Params:
- to - address to send to
- amount - amount of token to send
- Returns: promise (resolves totransactionObject
- once mined)
-

transfer transfersamount of token toto address.

transferFrom

```
Copy returnawaitdai.transferFrom('0x...fr0m','0x...t0',DAI(10));
```

- Params:
- from - address to send tokens from
- to - address to send to

- amount - amount of token to send
- Returns: promise (resolves totransactionObject
- once mined)
-

transferFrom() transfersamount of token fromfrom address toto address. Transaction will fail ifmsg.sender does not have allowance to transfer the amount of tokensfrom the from address.

deposit (WETH only)

```

Copy returnawaitweth.deposit(ETH(10));

```

- Params: amount of Eth to deposit
- Returns: promise (resolves totransactionObject
- once mined)
-

deposit convertsamount of Eth toamount of Weth.

withdraw (WETH only)

```

Copy returnawaitweth.withdraw(WETH(10));

```

- Params: amount of Weth to withdraw
- Returns: promise (resolves totransactionObject
- once mined)
-

withdraw convertsamount of Weth toamount of Eth.

join (PETH only)

```

Copy returnawaitpeth.join(WETH(10));

```

- Params: amount of Weth to join
- Returns: promise (resolves totransactionObject
- once mined)
-

join convertsamount of Weth to Peth, at theWeth to Peth Ratio .

exit (PETH only)

```

Copy returnawaitpeth.exit(PETH(10));

```

- Params: amount of Peth to exit
- Returns: promise (resolves totransactionObject
- once mined)
-

withdraw convertsamount of Peth to Weth, at theWeth to Peth Ratio .

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