Collateral types

Use the'mcd:cdpType' service to look up parameters for different collateral types in the system. In the code, this is calledCdpTypeService .

```

Copy constservice=maker.service('mcd:cdpType');

```

Properties

cdpTypes

This is a list ofcollateral type instances , initialized duringMaker.create .

```

Copy service.cdpTypes.forEach(type=>console.log(type.ilk)); // ETH-A // BAT-A // USDC-A

```

Instance methods

getCdpType()

Return thecollateral type instance for the specified currency and/orilk .

```

Copy // this will error if more than one type is defined for ETH consttype=service.getCdpType(ETH);

// disambiguate using the ilk name string: constethA=service.getCdpType(null,'ETH-A');

```

Collateral type instances

Properties

ilk

The name of the collateral type as a string, e.g. "ETH-A".

totalCollateral

The total amount of collateral locked in all vaults of this collateral type.

totalDebt

The total Dai debt drawn against all vaults of this collateral type.

debtCeiling

The debt ceiling for this collateral type.

liquidationRatio

Vaults of this type become unsafe (subject to liquidation) when their ratio between USD value of collateral and Dai drawn is less than or equal to this amount.

price

The USD price of this collateral type's token, using recent price feed data, as acurrency ratio . (See "A note on caching" above).

```

Copy console.log(type.price.toString());// "9000.01 ETH/USD"
```

```
```

liquidationPenalty

The penalty added to the Dai amount to be raised at auction when a vault is liquidated, as a percentage. e.g. if the penalty is 13%, this value will beBigNumber(0.13) .

annualStabilityFee

The annual stability fee (risk premium) of the collateral type, not including thebase rate , as a BigNumber. e.g. if the rate is 5%, this value will beBigNumber(0.05) .

Caching

When a vault instance is created, its data is pre-fetched from the blockchain, allowing the properties below to be read synchronously. This data is cached in the instance. To refresh this data, do the following:

```
Copy vault.reset(); awaitvault.prefetch();
```

To refresh the data for all collateral type instances at once:

```
Copy service.resetAllCdpTypes(); awaitservice.prefetchAllCdpTypes();
```

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