

# Oracles

## Introduction

Sei supports both Pyth and a native oracle. To learn more about Pyth you can visit their [website\(opens in a new tab\)](#). In the following section, we will cover the native oracle module.

Sei has a native oracle module to support asset exchange rate pricing for use by other modules and contracts. When validating for the network, participation as an Oracle is expected and required in order to ensure the most reliable and accurate pricing for assets.

Below are some helpful APIs to interact with the native Oracle module

### Actives

Returns the current active denoms for which there are exchange rates

```
seid  
q  
oracle  
actives actives: -
```

### uatom

### ubtc

### ueth

```
usei
```

### Exchange Rates

Returns the current exchange rates for supported assets. Optionally can query for a specific denom by entering it as an additional param.

```
seid  
q  
oracle
```

### exchange-rates

```
denom:  
uatom oracle_exchange_rate: exchange_rate:  
"10.813741474077133110" last_update:
```

**"7809045"**

```
denom:  
ubtc oracle_exchange_rate: exchange_rate:  
"28378.473894707711800815" last_update:
```

**"7806841"**

```
denom:  
ueth oracle_exchange_rate: exchange_rate:
```

"1865.245279694096497292" last\_update:

"7809045"

## TWAPs

Returns the time weighted average price for a given time interval in seconds. The maximum lookback is determined by oracle parameters.

seid

q

oracle

twaps LOOKBACK\_SECONDS oracle\_twaps: -

denom:

uatom lookback\_seconds:

"12" twap:

**"10.820090685543308091"**

denom:

ubtc lookback\_seconds:

"12" twap:

**"28356.159567933482758461"**

denom:

ueth lookback\_seconds:

"12" twap:

"1865.748268727863484183"

## Params

Returns the current parameters for the oracle module

seid

q

oracle

params params: lookback\_duration:

"3600" min\_valid\_per\_window:

"0.050000000000000000" reward\_band:

"0.020000000000000000" slash\_fraction:

"0.000100000000000000" slash\_window:

"201600" vote\_period:

"1" vote\_threshold:

"0.667000000000000000" whitelist: -

name:

**uatom**

name:

**usei**

name:

**ueth**

name:

ubtc Last updated onMay 23, 2024[Querying Historical State Execute Multiple Transactions](#)