# **Feed Registry**

The Chainlink Feed Registry is an onchain mapping of assets to feeds. It enables you to query Chainlink data feeds from asset addresses directly, without needing to know the feed contract addresses. They enable smart contracts to get the latest price of an asset in a single call, from a single contract.

Note

The Feed Registry only lists feeds with a canonical token address on a network. Non-token feeds such as stock indexes are not supported because they do not have a canonical token address.

For a complete list of functions and parameters for the Feed Registry Interface contract, see the Feed Registry API Reference

### **Base and Quote**

The Feed Registry fully supports the Aggregator V3 Interface API for multiple feeds. It maps feeds from baseand quote address pairs. To get the latest LINK / USD round data from the registry, call:

latestRoundData(addressbase,addressquote) For example, to get the latest LINK / USD price:

- base: The LINK token address on that network e.g.0x514910771AF9Ca656af840dff83E8264EcF986CAfor LINK on Ethereum mainnet
- quote: ADenominations. USDaddress (0x00000000000000000000000000000000348), which is based on SO 4217

- base: The LINK token address on that network e.g.0x514910771AF9Ca656af840dff83E8264EcF986CAfor LINK on Ethereum mainnet
- quote: ADenominations.ETHaddress (0xEeeeeEeeeEeEeEeEeEeEeEeEeeeEEEeeeEEEE)

latestRoundData(0x514910771AF9Ca656af840dff83E8264EcF986CA,0xEeeeeEeeeEeEeEeEeEeEeeeEeeeeEeeeEeEe)

#### **Denominations library**

ADenominations Solidity library is available for you to fetch currency identifiers which lack a canonical Ethereum address:

// SPDX-License-Identifier

### **Code Examples**

#### Solidity

To consume price data from the Feed Registry, your smart contract should reference <u>FeedRegistryInterface</u>, which defines the external functions implemented by the Feed Registry.

// SPDX-License-Identifier

MITpragmasolidity\*0.8.7;import{FeedRegistryInterface}from\*@chainlink/contracts/src/v0.8/Denominations 
\* THIS IS AN EXAMPLE CONTRACT THAT USES HARDCODED VALUES FOR CLARITY. \* THIS IS AN EXAMPLE CONTRACT THAT USES UN-AUDITED CODE. \* DO NOT USE THIS CODE IN PRODUCTION. \*/contractPriceConsumer{FeedRegistryInterfaceinternalregistry;/ \* Network: Ethereum Mainnet \* Feed Registry: 0x47Fb2585D2C56Fe188D0E6ec628a38b74fCeeeDf 
/constructor(address\_registry){registry=FeedRegistryInterface(\_registry);// \* Returns the ETH / USD price /functiongetEthUsdPrice()publicviewreturns(int){// prettier-ignore(/uint80 roundID/,intprice,/uint timeStamp/,/uint80 answeredInRound/)=registry.latestRoundData(Denominations.ETH, Denominations.USD);returnprice;// \* Returns the latest price /functiongetPrice(addressbase, addressquote)publicviewreturns(int){// prettier-ignore(/uint80 roundID/,intprice,/uint startedAt/,/uint timeStamp/,/uint80 answeredInRound\*)=registry.latestRoundData(Denominations.USD);returnprice;// \* Returns the latest price /functiongetPrice(addressbase, addressquote)publicviewreturns(int){// prettier-ignore(/uint80 roundID/,intprice,/uint startedAt/,/uint timeStamp/,/uint80 answeredInRound\*)=registry.latestRoundData(Dese,quote);returnprice;// \* Open in Remix What is Remix?

## Solidity Hardhat Example

Note

You can find a working Feed Registry Hardhat projection . Clone the repo and follow the setup instructions to run the example locally.

## **Javascript**

```
*** THIS IS AN EXAMPLE CONTRACT THAT USES INFACCODED VALUES FOR CLARITY.** THIS IS AN EXAMPLE CONTRACT THAT USES IN AUDITED CODE.** DO NOT USE THIS CODE IN PRODUCTION.** (onsweb3-newWeb() https://nc.aris.com/prossibles/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/draces/index/d
```

{internalType:"address",name:"quote",type:"address"},],name:"latestTimestamp",outputs:[{internalType:"uint256",name:"timestamp",type:"uint256"}],stateMutability:"view",type:"function",},{inputs:[{internalType:"address",name:"quote",type:"address"},],name:"aggregator",type:"address"}],name:"poposeFeed",outputs:[[internalType:"address",name:"quote",type:"durless"},],name:"proposeFeed",outputs:[[internalType:"uint26",name:"noundld",type:"uint256",name:"aggregator",type:"address"},],name:"proposeGetRess",name:"quote",type:"uint256",name:"aggregator",type:"uint256",name:"aggregator",type:"uint256",name:"aggregator",type:"uint256",name:"proposeGetRess",name:"quote",type:"uint256",name:"aggregator:",type:"uint256",type:"uint256",name:"aggregator:",type:"uint256",name:"aggregator:",type:"uint256",name:"aggregator:",type:"uint256",type:"

Latest LINK/USD Price:Latest Price

## **Contract addresses**

Data",roundData)})

This section lists the blockchains that Chainlink Feed Registry are currently available on.

 $Network Address Ethereum\ Mainnet \underline{0x47Fb2585D2C56Fe188D0E6ec628a38b74fCeeeDff}$