Genesis Volatility Cryptocurrency Options Oracle

Genesis Volatility is a leading provider of data analytics on the crypto derivatives market, covering the largest exchanges. This oracle will initially supply the 30 day constant maturity 30/20 delta skew for either BTC or ETH.

Steps For Using This Oracle

- Write and deploy your [Chainlink](#) contract using the network details below
- Fund it with [LINK](#)
- Call your [request method](#)

Network Details

Ethereum Mainnet

Payment Amount: 1 LINK
LINK Token Address: `0x514910771AF9Ca656af840dff83E8264EcF986CA`
Oracle Address: `0x2587B47e53a02789F986E9a7e837fE5879f1fe30`
JobID: `da5f65bda578430f9ba520716d42e397`

Ethereum Kovan Testnet

Payment Amount: 0.1 LINK
LINK Token Address: `0xa36085F69e2889c224210F603D836748e7dC0088`
Oracle Address: `0x56dd6586DB0D08c6Ce7B2f2805af28616E082455`
JobID: `5fd92f9bbc67465a80b8c4770dd89212`

Binance Smart Chain Mainnet

Payment Amount: 0.1 LINK
LINK Token address: `0x404460c6a5ede2d891e8297795264fde62adbb75`
Oracle Address: `0xCAEd48E87a5c04D7dCD70C9efd3Ee2fA852a5874`
JobID: `3d240b3bbd094aa8a8fbf979a8be1492`

Polygon (Matic) Mainnet

Payment Amount: 0.1 LINK
LINK Token Address: `0xb0897686c545045afc77cf20ec7a532e3120e0f1`
Oracle Address: `0x5C7E97565989804455C2AB0eCfE0A456f448682d`
JobID: `b787c7fc8937433298302d4bf2cd7249`

xDAI Mainnet

Payment Amount: 0.1 LINK
LINK Token address: `0xE2e73A1c69ecF83F464EFCE6A5be353a37cA09b2`
Oracle Address: `0x670714Ef34E469DBC90d82087E95db1B1E71F279`
JobID: `5428e2d7e7d24b849878412c0aa9f821`

Create Your Contract

Import `ChainlinkClient.sol` into your contract so you can inherit the Chainlink behavior.

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Deploy this contract using Remix ↗

[What is Remix?](#)

</div>

Solidity 4	Solidity 5	Solidity 6

```solidity
pragma solidity ^0.4.24;

import "@chainlink/contracts/v0.4/ChainlinkClient.sol";

contract REPLACE_MEChainlink is ChainlinkClient {

  uint256 oraclePayment;

  constructor(uint256 _oraclePayment) public {
    setPublicChainlinkToken();
    oraclePayment = _oraclePayment;
  }
  // Additional functions here:

}
```

Tasks

- [GVol](#)
- [Copy](#)
- [Multiply](#)
- [EthInt256](#)
- [EthTx](#)

Request Parameters

`symbol`

The symbol of the currency to query. Choose `ETH` or `BTC` .

Solidity Example

```solidity
req.add("symbol", "BTC");
```

Chainlink Examples

The examples below show how to create a request for the Chainlink node.

`requestSkew` function

```
function requestSkew
(
  address _oracle,
  bytes32 _jobId,
  string memory _symbol
)
  public
  onlyOwner
{
  Chainlink.Request memory req = buildChainlinkRequest(_jobId, this, this.fulfill.selecto
  req.add("symbol", _symbol);
  sendChainlinkRequestTo(_oracle, req, oraclePayment);
}
```

`fulfill` function

```
int256 public skew;

function fulfill(bytes32 _requestId, int256 _skew)
  public
  recordChainlinkFulfillment(_requestId)
{
  skew = _skew;
}
```

Documentation and Support

- Genesis Volatility 30/20 Delta Skew API Documentation
- For additional support reach out to info@genesisvolatility.io