<u>InternalContract for DIVA integration(Apothem)</u>

InternalContract is the one which performs all the functions pertaining to blockchain connection, registering the feed's job, initiating the jobs to fetch individual feed results. We have abstracted all those complexities under the hood, which is our internal contract and created a Consumer contract to access the same. End users should be able to use the "Consumer contract" and access the oracle accordingly.

The internalContract needs to be "Approved" and "Deposited" before using it in actual. We created a widget for the "Approval" & "Deposit", which can be downloaded from github and the steps to install the widget with github link is given below.

consumerContract for DIVA integration(Apothem)

Please note, as a user you should have enough "Apothem PLI" token to pay oracle fee in order to access the price feed. For instance, the provided consumer contract needs to be deposited with minimum 1 APOTHEM PLI to max 100. For which, we have provided a small widget right below.

Steps to use the widget

Step 1:

Clone the git package to your local pc

git clone https://github.com/GoPlugin/DIVA-plugin-integration-apothem.git

Step 2:

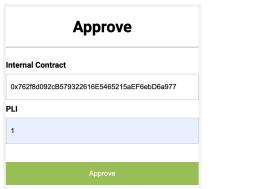
On command line go to DIVA-plugin-integration-apothem/client folder and do

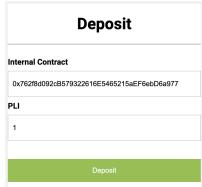
npm install

Step 3:

On command line initiate the widget using the below mentioned command ${\tt npm}\ {\tt start}$

Once the widget is installed, the server interface opens up through http://localhost:3000. The UI is given below for the understanding.





NOTE: Please use the **same wallet address** of your XDCPay for all your transactions.

Step 5:

In the widget Approve the "InternalContract" address 0xB66aCdaf3F692D4057637eD42f0347f8F27Fff82, and then Deposit the "Internal Contract" using your PLI tokens from your wallet.

NOTE:

- 1) In the widget the minimum Apothem PLI token you can approve and deposit is 1
- 2) In the widget the maximum Apothem PLI token you can approve and deposit is 100

Based on the estimated usage you can deposit the Apothem PLI in between minimum and maximum, this Apothem PLI will be reserved in the InternalContract and whenever the end user use this feed, the ORACLE FEE of 0.1 will be deducted.

The consumer contract is given below for usage or you can get that in the repository under the consumer-contract folder. Make sure "CONTRACTADDR" variable matches with '0xB66aCdaf3F692D4057637eD42f0347f8F27Fff82', which is the address of InternalContract deployed for DIVA.

Steps to be performed post deployment:

Step 1:

Deploy ConsumerContract.sol using remix.

NOTE: Please use the **same wallet address** of your XDCPay which you used to approve, deposit Apothem PLI in the widget.

```
pragma solidity ^0.4.24;
interface IInvokeOracle {
 function requestData(address authorizedWalletAddress) external returns (uint256
requestId);
 function showPrice(uint256 reqid) external view returns (uint256 answer, uint256
updatedOn);
 address CONTRACTADDR = 0xB66aCdaf3F692D4057637eD42f0347f8F27Fff82;
 uint256 public requestId;
 function getPriceInfo() external returns (uint256) {
IInvokeOracle(CONTRACTADDR).requestData({_authorizedWalletAddress:owner});
      (uint256 answer, uint256 updatedOn) =
IInvokeOracle(CONTRACTADDR).showPrice({ reqid: id});
     return (answer,updatedOn);
```

Step 2:

Once ConsumerContract.sol is deployed, collect the deployed address. The wallet address with which you deployed the ConsumerContract should be sent to the Plugin team.

Kindly send mail in below mentioned format to 'support@goplugin.co'.

Mail Subject: Authorization requested for DIVA

Mail Content:

ConsumerContract:<your_deployed_consumercontract_address>
InternalContract address used: <internal_contract_address>

Wallet address:<your_wallet_address>

Plugin Team will authorize your ConsumerContract address, your wallet address and reply back to your mail request.

Step 3:

Once you receive a successful reply from the Plugin Team, go to your ConsumerContract.sol deployment and click on "getPriceInfo" function.

Step 4:

Click on the "requestId" to get the request id for your specific feed request.

Step 3:

Copy the request id and paste it in the show field and click on "show" to get the price of XDC/USDT for DIVA.

Reference image of consumerContract deployment

