Factomize Everything

This document describes the data being put into the Factom Blockchain by the Factomize Everything Project and the way to access it using the Factom Oracle. Answers to Inquiries that can be answered withing 30 seconds will be determined. If the answer has not or cannot be resolved within that 30 seconds, a response will be given with a PENDING outcome and a QuestionHash to be used to query for an answer without creating a new transaction. The question will be polled periodically to see if it can be answered. When it is answerable the answer will be placed into the Factom blockchain and a response containing the AnswerHash and Factom Entry Hash will be available. All Hashes are entry hashes in the Factom blockchain.

(Currently a request will time out after 30 seconds. question maintenance and back end blockchain answers will be released in August, 2016)

Data Sources

DataYes - Chinese Stock Quotes *

Intrinio - US Stock Quotes

Poloniex - Bitcoin to various digital currency prices *

Bitcoin Average - Bitcoin Price against multiple fiat currencies *

Bell Average - Gold and Silver Prices *

(* not yet activated)

Factom Oracle

Not all data sources are available through the Factom Oracle. As new data categories are added to Factom, the list of available queryable items will grow.

Request URL

http://trustedoracle.com/API

Requests can be sent via GET or POST. The data fields are the same. In a GET, the are query string fields. In a Post, they are in a json document.

GET

http://trustedoracle.com/API?DataType=INTRINIO&DataItem=AAPL

POST

http://trustedoracle.com/API

Post JSON Document

```
{

"DataType":"INTRINIO",
"DataItem":"AAPL",
"StartDate":"" ,
"EndDate":"",
"GreaterThan":"",
"EqualTo":"",
"LessThan":"",
"Outcome":"",
"OutcomeDate":"",
"Answered":"",
"QuestionHash":"",
"AnswerHash":"",
"FactomEntryHash":""
"APIKey":""

}
```

Data Formats

All data fields are passed as string.

Date Format: YYYYMMDDHHmmSS

Request and Response documents are in the same JSON format. The response for a GET is the same JSON document

Example POST Request

curl -X POST -H 'Content-Type: application/json' -d
'{"DataType":"INTRINIO","DataItem":"AAPL","StartDate":"","EndDate":"","GreaterThan":"","EqualTo":"","LessThan":"","Answered":"","Outcome":"",
"OutcomeDate":"","QuestionHash":"","AnswerHash":""}' http://trustedoracle.com/API

Response

{\"DataType\":\"INTRINIO\",\"DataItem\":\"AAPL\",\"StartDate\":\"\",\"EndDate\":\"\",\"GreaterThan\":\"\",\"EqualTo\":\"\",\"LessThan\":\"\",\"Answere
d\":\"true\",\"Outcome\":\"98.660000\",\"OutcomeDate\":\"20160724230920\",\"QuestionHash\":\"\",\"AnswerHash\":\"\",\"FactomEntryHash\":\"542
05e890d24525a6f2f8a3c63a5f64b1995889965d6634bb8f65659d2ba88cb\",\"APIKey\":\"\"}"

Example Get Request

curl -X GET -H 'Content-Type: application/json' http://trustedoracle.com/API?DataType=INTRINIO&DataItem=AAPL

Response

{\"DataType\":\"INTRINIO\",\"DataItem\":\"AAPL\",\"StartDate\":\"\",\"EndDate\":\"\",\"GreaterThan\":\"\",\"EqualTo\":\"\",\"LessThan\":\"\",\"Answere
d\":\"true\",\"Outcome\":\"98.660000\",\"OutcomeDate\":\"20160724230920\",\"QuestionHash\":\"\",\"AnswerHash\":\"\",\"FactomEntryHash\":\"542
05e890d24525a6f2f8a3c63a5f64b1995889965d6634bb8f65659d2ba88cb\",\"APIKey\":\"\"}"

Data Source Specific information

Bell Average

  Bell Average has gold and silver spot prices obtained from bellaverage.com, anthemvault.com, and amagimetals.com. These prices are pulled once a minute and are generally up to date.

DataType = BELLAVERAGE

DataItem = GOLD or SILVER

Intrinio

  Intrinio is data that is pulled from Intrinio.com. It contains the stock tickers and prices for the Russell 3000 stocks. (Top 3000 stock in US market). It is kept at a 15 minute granularity and delayed by 24 hours. (This delay will be removed in the near future)

DataType = INTRINIO

DataItem = Stock Ticker for a Russell 3000 stock

Bitcoin Average (Not Yet Active. Expected 7/26/2016)

  Bitcoin Average stores the average bitcoin price in various fiat currencies. It is pulled once a minute and is generally up to date

Currencies Followed: AUD, BRL, CAD, CNY, EUR, GBP, HKD, IDR, ILS, INR, JPY, MXN, NOK, NZD, PLN, RON, RUB, SEK, SGD, USD, ZAR

DataType=POLONIEX

DataItem=Digital Currency Abbreviation

DataYes(Not Yet Active. Expected 8/3/2016)

  DataYes is information on the 2500+ stock in the Chinese Stock markets. They are pulled at 10 minute intervals and are delayed by one day. That delay may removed in the near future.

DataType=DATAYES

DataType= stock ticker from Chinese exchange

(DataType format 000017.XSHE or 600448.XSHG)

Poloniex (Not Yet Active. Expected 7/26/2016)

  These are the digital currency prices of various currencies being exchanged on the Poloniex Digital Curreny Exchange (www.poloniex.com). They are pulled at one minute intervals and are generally up to date.

Currencies Followed: BTS, DASH, DOGE, ETH, FCT, MAID, NXT, OMNI, NXT, XMR, XRP, USDT

DataType=POLONIEX

DataItem=Digital Currency Abbreviation