

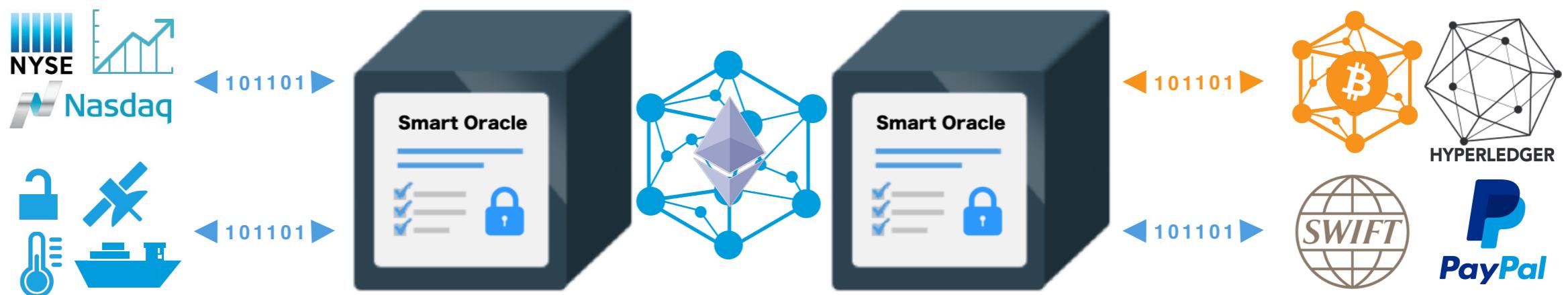
SmartContract

(smartcontract.com)

European Ethereum Development Conference 2017

Connecting Smart Contracts to
Market Data and Widely Used Payments

Providing Smart Contract Data & Payments



*Inbound Oracles
Provide Data*

*Outbound Oracles
Send Payment*

Bank's Control Global Finance With Complexity

FinTech

Legal



CIB



Operations



Compliance



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DTCC
euroclear



STANDARD
& POOR'S



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FinTech

Legal



CIB



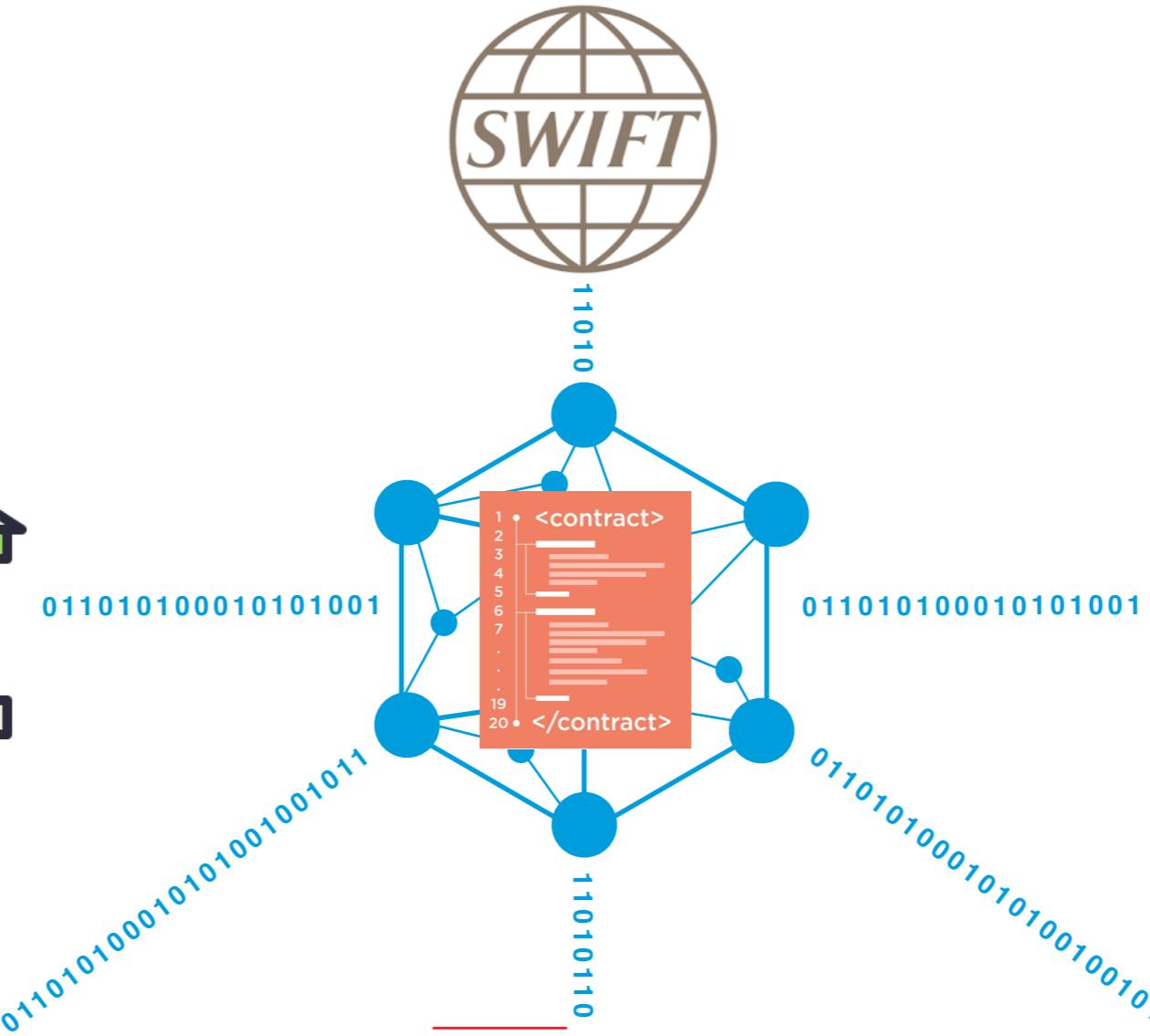
Operations



Compliance



Smart Contracts Create Global Access

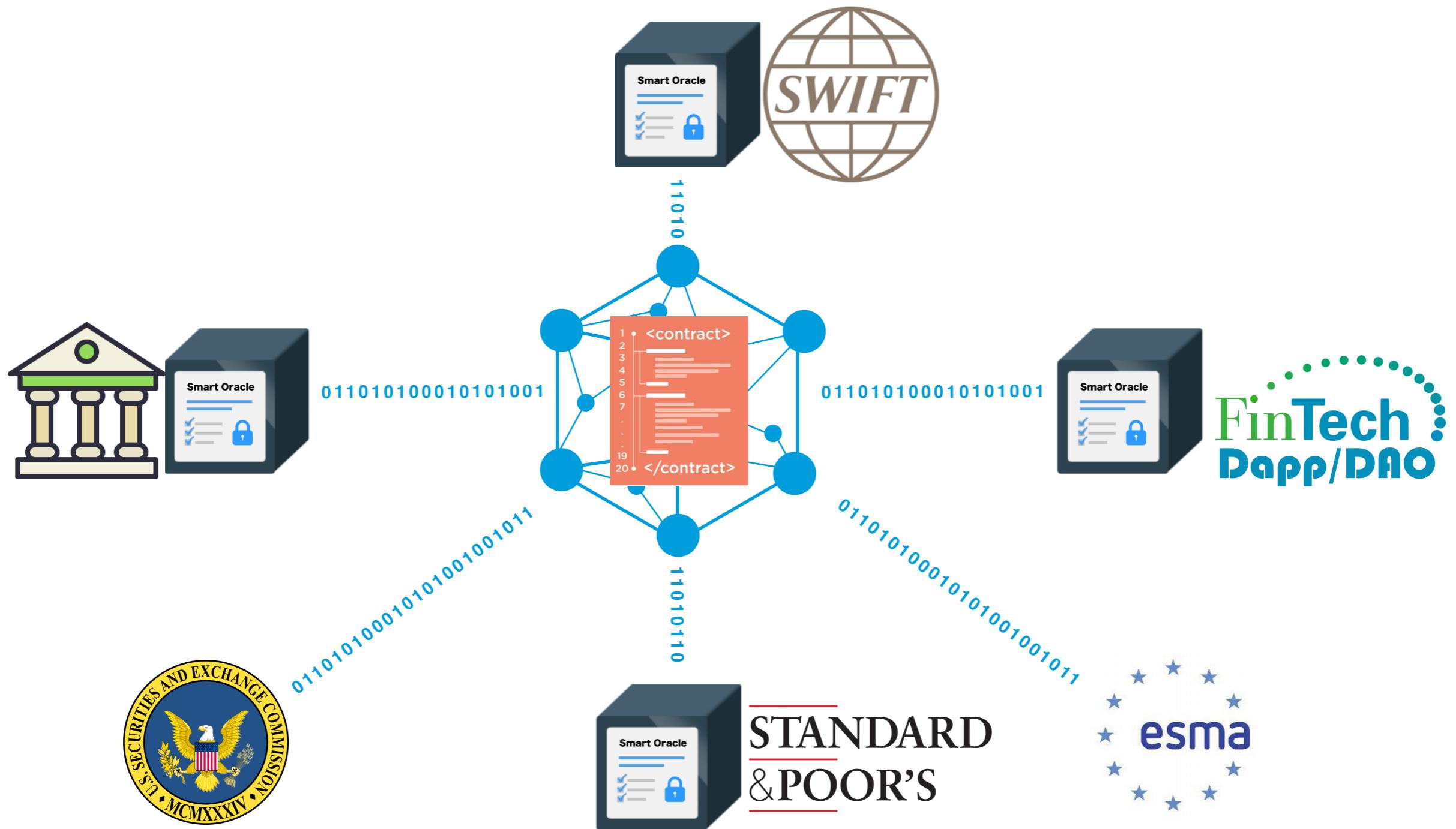


STANDARD
& POOR'S

FinTech
Dapp/DAO



Connecting to Smart Contracts with Oracles



Fully Connected Smart Contracts

Interest Rates



01011101101
Interest Rate ➤

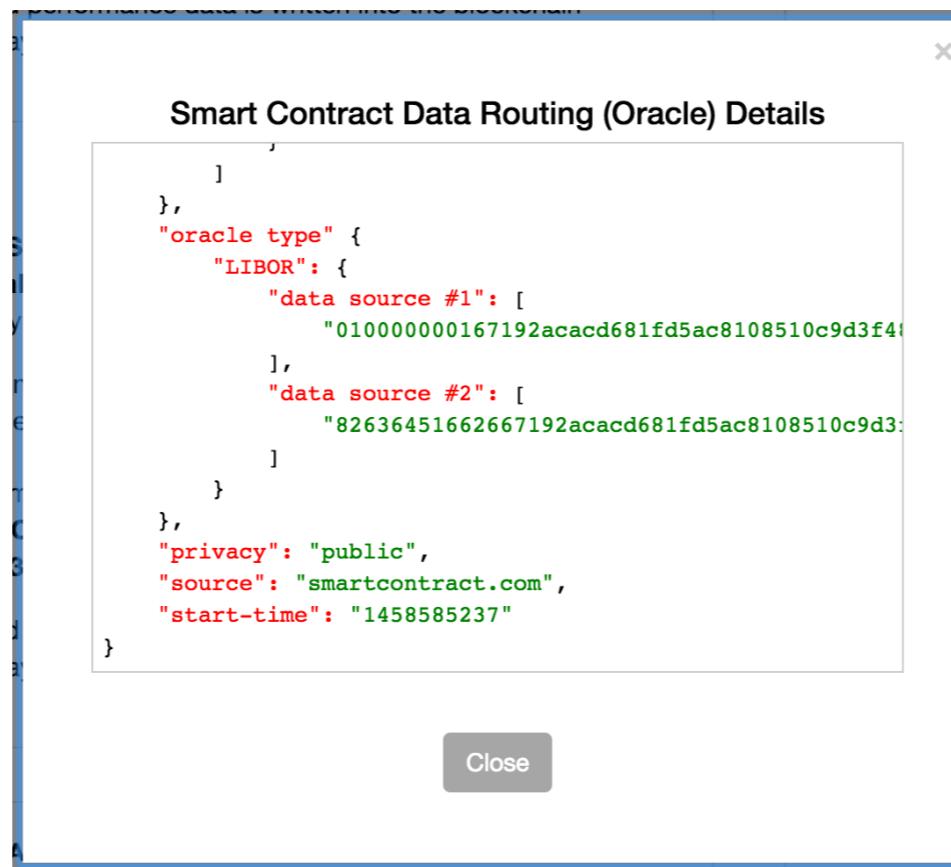


01011101101
Interest Rate ➤



01011101101
Interest Rate ➤

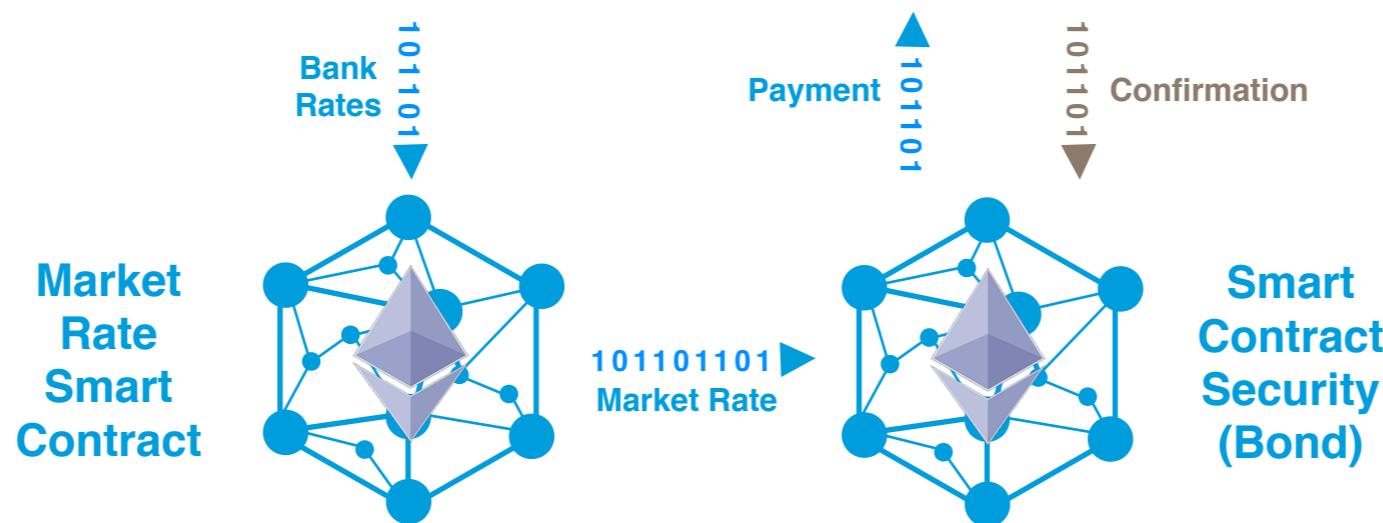
Smart Contract Oracles



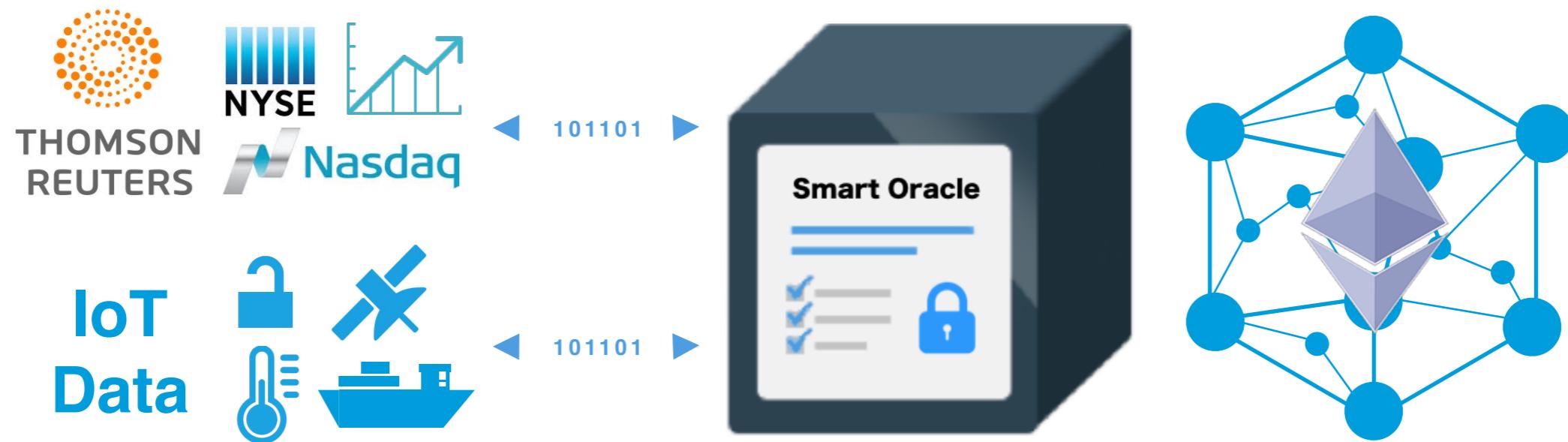
Payment Network



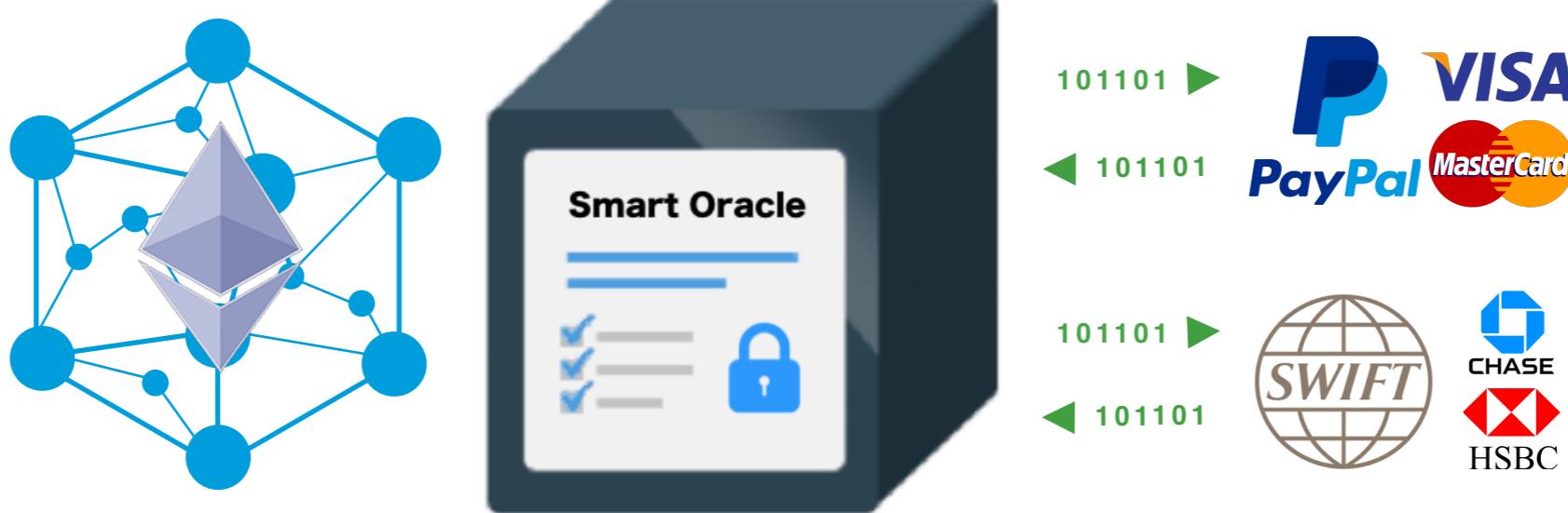
Payment
0101110110110 ➤
◀ 0101110110110 Confirmation



Connect to Key External Data Sources



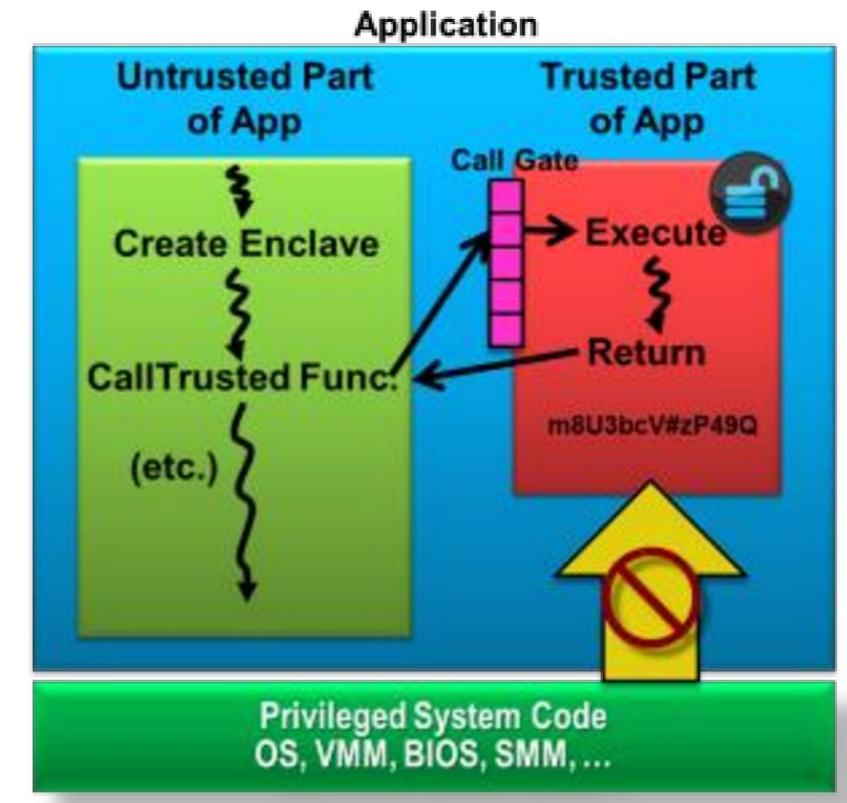
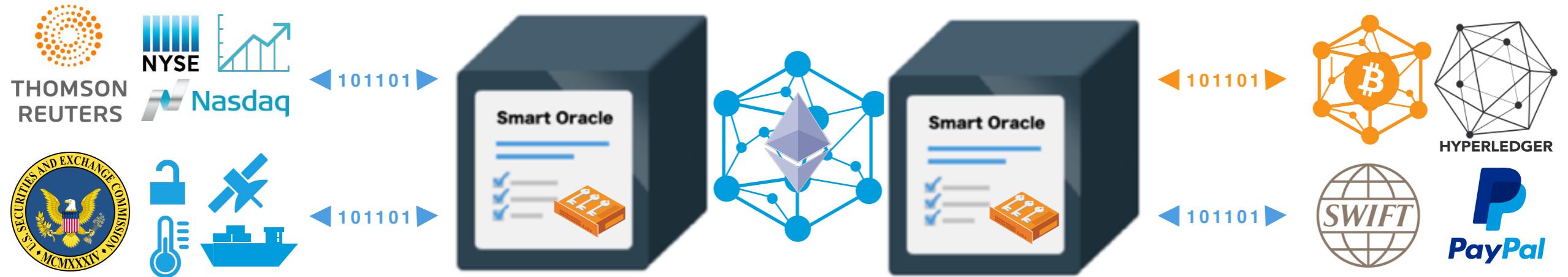
Send Off-chain Payments in Fiat Currency



Utilize Other Public or Private Chains



Privacy with Provable Off-chain Computation



Creating Your Own Smart Oracles

The screenshot shows the SmartContract interface for creating a public oracle. The main page title is "Ether to USD Price Public Oracle". The "ORACLE DETAILS" tab is selected, displaying the following information:

- This public oracle provides all smart contracts in the Ethereum network with free access to the daily Ether to USD conversion price. Any Ethereum smart contract can query this oracle's integration address for today's Ether to USD conversion price. The data provided by this oracle comes from the CoinMarketCap API (<https://api.coinmarketcap.com/v1/ticker/>) and is updated daily at 00:00 UTC.
- ORACLE ACTIVITY:** In Progress. 317 days until expiration.
- ORACLE CREATOR:** SmartContract.com (@smartcontract) signed Feb 17th 2017.
- ORACLE SIGNERS:** SmartContract.com (@smartcontract) signed Feb 17th 2017.

The "ORACLE ACTIVITY" tab shows a log of recent updates:

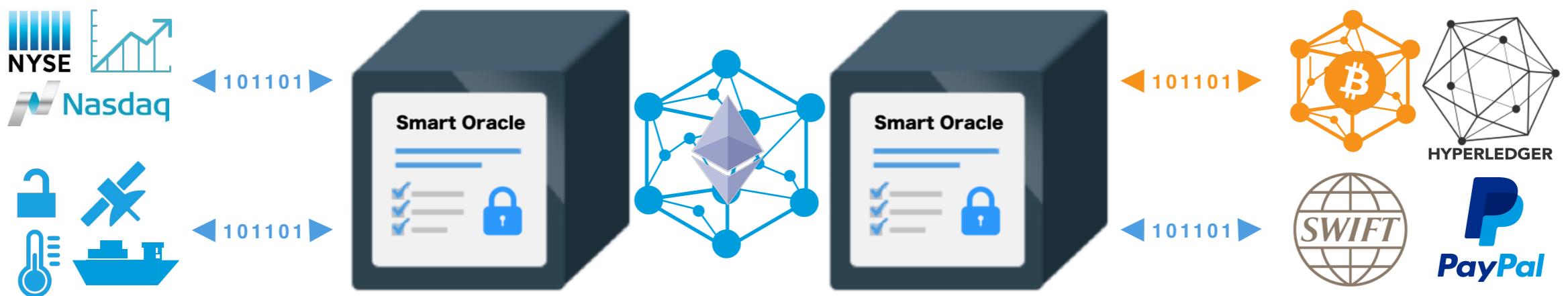
ORACLE UPDATE	TIMESTAMP
Assignment "1" updated its value to "12.8134". Blockchain record: 0x8c46ffe6594dc08215e6fbcb8e5db...	17 Feb 2017 04:23:07 UTC

A modal window titled "Smart Contract Data Routing (Oracle) Details" displays the JSON configuration for the oracle:

```
{
  "name": "1",
  "type": "oracle",
  "expected": {
    "deadline": "1498867140",
    "endpoint": "https://www.quandl.com/api/v3/",
    "fields": [
      "dataset",
      "data",
      "0",
      "1"
    ],
    "type": "oracle",
    "dataType": "bytes32",
    "frequency": "0 0 * * *"
  }
}
```

<https://create.smartcontract.com/#/contracts/d735744a1497f705280754d0d5438641>

Creating Your Own Smart Oracles



Github.com/OracleKit

Support@SmartContract.com