**Outputs and Outcomes**

Our focus is to:

- Improve the performance and reliability of the Protocol
- Drive awareness of, and market demand for, the Protocol
- Provide ability to monitor the exchange rate and make adjustments as needed
- Make improvements to the Anchor Master allowing Factom to remain competitive and relevant in the marketplace.

Grants:  
- Protocol Grant  
- Oracle Grant  
- Anchor Grant

**Status and Achievements**

**WORK IN PROGRESS**

Over the last month we've been planning and refining the strategy, tactics, resources, and budget needed to achieve the marketing goals of the grant. We attended three events in June / July.

New capabilities
- New API Endpoints requested by an Exchange - Development Complete, QA/Debugging In Progress. (Protocol Grant)

Human Resource
- We added two engineers: Sam Barnes and Josh Brigati
Work Completed

New capabilities
● Code to create and allocate Factoids for Grant payout (Protocol Grant)
● Development analysis on Ethereum Anchoring (Anchor Grant)

Maintenance
● Mainnet Outage - July 18 2018 - Due to faulting as a result of an entry credit balance bug
● Mainnet Outage - July 30 2018 - Not all DBSigs were processing (13/15)
● Mainnet Outage - July 31 2018 - Incomplete downgrade from grant deployment
● Maintain and managed the Bitcoin Anchoring Software (Anchor Master Grant)
● Continuous monitoring and adjustment of exchange rate as needed (Oracle Grant)

Awareness
● [NY CRE Tech Summit](#) - June 26th
● [Tech Titans Blockchain Program](#) - July 11th
● [Mayors Blockchain Hackathon](#) - July 27th - 29th
● [Blog: Not All Blockchains are Equal](#)

Previous Period Progress on Success Criteria:
● Improved Performance
● Cleanup - simplifying code paths, refactoring code
● Stability - correction of fastboot problems and EC balances

Lessons Learned

Organizational learnings:
● Reduce single point of failure risks by cross training and hiring additional developers
● Hackathons are a great venue to find and evaluate staffing candidates

Technology learnings:
● Dollar-denominated grants more difficult than anticipated due to the need to find an agreed-upon Oracle with the ability to manage Factom to USD exchange rate appropriately.
● Hard-coded grants are undesirable because the exchange rate is coded into the blockchain more than a week before payouts and future price fluctuations are difficult to manage.

Future Plans

Protocol Grant
● Refactored code to improve transactions per second.
● Refactored code to reduce number of missing messages.
● API for network diagnostics
● Enable the ability to count votes of standing parties
● Descoped Items for this Grant Period
  ○ Support of internal sharding
  ○ Coinbase cancel UI
  ○ Improved support structure for Factom Guides and ANO’s

Oracle Grant
● Improvements to Rate Change Log allowing validation against historical data
● Rate change alerts

Anchor Grant
● Ethereum Anchors

Awareness
● [6th Annual Big Data Conference](#) - Aug 28 - 30th, Denver, CO
● [Total Alts Conference](#) - Sept 6-7th, San Francisco, CA
● Hackathon, Sept 28 - 30th, Chicago, IL
● [MISMO Fall Summit](#) - Sept 24 - 28th, Washington, DC