The U.S. Securities and Exchange Commission (SEC) requires a data source (subscription) for blockchain ledger data to support its efforts to monitor risk, improve compliance, and inform Commission policy with respect to digital assets. This subscription includes but is not limited to the below requirements.

1. Blockchain Types and Composition

- a. At a minimum, the subscription shall include the Bitcoin and Ethereum blockchains.
- b. In addition, the subscription shall include as many as possible of the following blockchains: Bitcoin Cash, Stellar, Zcash, EOS, NEO, and XRP Ledger.
- c. Subscription must support adding new blockchains, as these gain prominence in the marketplace.
- d. The subscription shall source all blockchain data from hosted nodes, rather than providing this data as a secondary source (e.g., via blockchain explorers).
- e. The subscription shall include all derivative currencies (tokens) for all provided blockchains.
- f. The subscription shall include the full blockchain ledgers, since inception (genesis block) or as available, to present, for all provided blockchains.

2. Required Data Fields

- a. The subscription shall include all on-node data for each supplied blockchain, in its entirety.
- b. At a minimum, the subscription shall include the following normalized fields for each blockchain: Ticker symbol; addresses (sent/receiving); transaction hash; transaction timestamp; transaction amounts; unspent balance (sent/receiving); transaction fees; confirmations; block hash; and block height.
- c. Nice to have: Provide cross-referenced data to support attribution intelligence on blockchain transaction data.
- d. Nice to have: Provide overview data for supplied blockchains, including metadata and chain metrics. This data would include things such as hashing algorithms, hashing power, mining difficulty and rewards, transactions quantity and size, coin supply and blockchain size.

3. Data Normalization and Quality

- a. Vendor must run their own node for each supported blockchain. Each node must be synchronized with the network and all processes run in a secure and controlled environment.
- b. Provide means to demonstrate all data provided is accurate and complete.
- c. Provide data in standardized fashion across disparate data sources to facilitate data viewing and consumption.
- d. Provide clear definitions and rigorous methodologies for calculating all derived metrics.

- e. Demonstrate level of rigor of data cleansing and normalization meets requirements of financial statement audit testing.
- f. If attribution data supplied, describe processes and data sources for blending blockchain data with attribution data points for deriving insights.

4. Data Provisioning and Frequency

- a. Data shall be provided to the Commission using a secure, encrypted data feed (push).
- b. One of following transmission protocols must be used: SFTP or IBM ConnectDirect. For SFTP, authentication can be via public or private key.
- a. Data feed shall provide all historic information for full blockchains, from genesis block or as available, in a one-time data transfer and following that, provide updates on a daily basis.
- b. Provide enterprise data license: Data must be enabled for full enterprise use, including data access and data-sharing.
- c. Nice to have: Provide an additional API transmission option.