2.2.2.1 Network View

return to Node Network View

The Network View can be thought of as a system of nodes are all the individual Nodes that: ☐ [nick]Don't know what to do with the above sentence .. I see different ways to fix it .. but suspect it would be better for you to do it because you know what you meant to say and I really don't. Is the idea that one can treat a system of nodes as tho they are individual nodes? make up a collection of nodes sharing a common functionality and operate on that collection? That's one way I thought of but don't want to make that assumption. Cuz you may be thinking of something else.

- Participate as a single entity within the Network
- Use a single Data Object (i.e., base coinage)
- Process transactions according to the rules of the community

For example, there is a System of Nodes involved in the lifecycle of Bitcoins. However, it makes no sense for public records such as births, deaths, marriages, and divorces to be in the Bitcoin System of Nodes. However, the public records could form their own System of Nodes using the Bitcoin software but restrict this network to store pubic records.

Obviously, Bitcoin’s main purpose is to transfer assets around the world at high speed and with low overhead. However, these are not the capabilities motivating the use of DIDO networks for low volatility public records that reflect the natural rates of births, deaths, marriages and divorces. Such applications are usually the jurisdiction of a single country or countries that have reciprocity agreements or treaties.

Similarly, the need to establish a Private System of Nodes might exist for internal use only (i.e., government enclaves, large corporations, etc.) that have enough distributed resources to support the network. Although the current cryptographic protocols provide “security” to a DIDO, with the advent of quantum computing [1)], a reliance on these algorithms in the future for highly classified or private data may not be acceptable. These risks provide more justification for the development of Private DIDO Networks.

As a general rule, the larger the System of Nodes the more secure and tamper-proof the data held within the Network becomes, which means that for networks to be viable from a security perspective, the number of Nodes in the collection might have a minimum.

- 2.2.2.1.1 Secure Messaging
- 2.2.2.1.2 Transport
- 2.2.2.1.3 Security
- 2.2.2.1.4 Protocol
- 2.2.2.1.5 Distribution Software

☐ [nick]Review -- see my note above

1)

MIT Technology Review, “Quantum Computers Pose Imminent Threat to Bitcoin Security,” 8 November 2017.

https://www.technologyreview.com/s/609408/quantum-computers-pose-imminent-threat-to-bitcoin-security/