

QUADRANS' BLOCKCHAIN "CODE OF CONDUCT"

Davide Costa, Fabio Fiori, Massimiliano Sala
SWITZERLAND, 16 NOVEMBER 2021

SUMMARY

1 ABSTRACT	3
2 WHICH DECISIONS HAVE TO BE DONE?	4
3 OUR PROCESS PROPOSITION	5
4 FINAL COMMENTS	6

1 ABSTRACT

The Quadrans Blockchain (QB) is designed as a “public blockchain” according to nowadays terminology, i.e. a blockchain that is ultimately in the hand of the community that is using it. However, a special role is played by the Quadrans Foundation, which pursues the growth and improvement of the QB itself.

There are many ways to achieve a community consensus on a public chain, which are subject of debate among supporters. We see blockchains like Bitcoin where in principle nobody is giving rules and anybody disagreeing on changes can just create a fork (or vice versa, those pushing for a change can just leave and create a fork), but we also see blockchains where entities play a stronger role, such as Ethereum with its foundation. Nonetheless, the democratic nature of Bitcoin is questioned by people signaling the implicit power on changes held by the core developers.

There is no trivial solution when trying to obtain a blockchain that is “purely public” while continuously improving and adding features at the same time

2 WHICH DECISIONS HAVE TO BE DONE?

Different decisions could have a different impact on the blockchain itself. We can identify some types according to their influence on the QB functioning.

1. Genesis values

Although the yellow paper [...] describes deeply how QB should work, some details (specific numerical values which are hinted at) are missing in, e.g. the number of QTokens needed to enroll to become a MasterNode, the initial number of shards, the initial set of authorised digital signatures, etc..

2. Official software implementation

Users need to know which is the official Wallet to use, which is the official node implementation, official mining implementation, etc.

3. Values modification

The values in the yellow paper can evolve over time, as for example the adding of new digital signature algorithms.

4. Adding of new features that do not clash with the yellow paper

There may arise the need for new features, such as the adoption of a Common Names system (hinted in the yellow papers as possible future), or the creation of new paradigms for smart contracts (e.g., written in a different programming language, new primitives to use, etc.).

5. Modifications to the yellow paper itself

The yellow paper acts as a “Constitution” on which all users agree. This changes are potentially the most controversial ones.

3 OUR PROCESS PROPOSITION

Genesis values

This set of values is necessary to mine the blocks in the first epoch. Since these values will be public before the start of the QB blockchain, they will be decided by the Quadrans Foundation: users disagreeing with these can decide to fork and stick with the current QB version.

Official software implementation

This implementation must follow the general rules dedicated in the yellow paper and all subsequent approved modifications. The community entrust the Foundation with the writing of a a correct implementation (and bug fixing) and/or participates to the code writing, debugging and review as in any other open source project.

Any other software implementation that follows the QB protocol (in a wide sense) is welcome, but it will not need to be endorsed by the Foundation and no such endorsement will be given upon request.

Values modification

Since the values in the yellow paper will probably evolve over time, as for example the adding of new (more secure) digital signature algorithms or the change in the sharding rules (for efficiency reasons that were foreseen), we must set up a way to reach a community consensus on these changes. Ultimately, it is in the TokenHolders' best interest to have a well-functioning and growing blockchain, so it is fair that the important decisions rest ultimately with them.

Anybody can propose a change of any of these parameters and at any time. The Foundation collects all these proposals and chooses those that are, to it's judgment, beneficial for the blockchain, possibly asking for comments from experts, such as its own Crypto Board.

A poll will be called on these proposals and to take effect this must not be rejected by the majority of TokenHolders.

This method avoids prevents any imposition by the Foundation and avoids the need to vote on continuously shifting rules, that might even be self-contradictory, ensuring thus the creation of a consistent set of rules.

Adding of new features that do not clash with the yellow paper

There may arise the need of new features, such as the adoption of a system of Common Names (hinted in the yellow papers as possible future), or the creation of new paradigm of smart contracts (e.g., written in a different programming language). These features may have an impact as large as the modification of some values, therefore it is fair to use the same pattern for their inclusion:

- Users submit proposals;
- The Foundations opens a discussion about them, ask for expert advice and finally evaluates them;
- Those selected by the Foundation are voted by the TokenHolders and they will come into effect unless the majority of TokenHolders rejects them.

Modifications to the yellow paper itself

The yellow paper acts as a “Constitution” on which all users agree and should be changed with extreme reluctance. Yet, there may be situations which couldn’t be foreseen and that require a change (for example, a new kind of attack threatening the blockchain security).

The Foundation will follow the same procedure stated before but requiring a more clear vote in favour of the change:

- Users submit proposals;
- The Foundations opens a long discussion on them, ask for expert advice and finally evaluates them;
- Those selected by the Foundation are voted by the TokenHolders; they come into effect only if the majority of TokenHolders explicitly approves the proposal.

4 FINAL COMMENTS

While there will always be fringes that reject any change or, on the contrary, propose infeasible changes, we believe that the previously discussed process allows for the involvement of all components of the QB community, while keeping rules consistent and beneficial, thus triggering their wide acceptance by the community.

Quadrans Foundation

Via alla Torre n.2 6850
Mendrisio - Switzerland
CHE 432.155.979

www.Quadrans.io
Fondazione@Quadrans.io

Intellectual Property
Quadrans Foundation © 2021,
reproduction is forbidden but
sharing is encouraged