



TATS

Smart Contract: Final Review

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This document describes the review of the TATS smart contracts performed by ABDK Consulting.

1. Introduction

We've been asked to review a set of contracts in the [contracts folder](#) at the commit `0a0bf7`. We made an extensive review, where several flaws were found. They were communicated to the customer, and the latter fixed them in a sequence of commits, ending with [commit c30f6](#).

2. RegulatedToken

In this section we describe issues related to the smart contract defined in the `RegulatedToken.sol`.

2.1 EIP-20 Compliance Issues

All issues of token smart contract related to the EIP-20 requirements were fixed.

2.2 Documentation and Readability Issues

The documentation issues were fixed, which were found in the smart contract, and the cases where the code is correct, but too involved and/or complicated to be verified or analyzed.

2.3 Suboptimal Code

Suboptimal code patterns, which were found in the token smart contract, were fixed.

2.4 Major Flaws

The only major flaws which were found in the smart contract, was fixed.

3. RegulatorService

In this section we describe issues related to the smart contract defined in the RegulatorService.sol.

3.1 Documentation Issues

The documentation issues were fixed.

3.2 Unclear Behavior

These issues were fixed.

3.3 Suboptimal Code

Suboptimal code patterns were fixed.

4. ServiceRegistry

In this section we describe issues related to the smart contract defined in the ServiceRegistry.sol.

4.1 Unclear Behavior

These issues were fixed.

4.2 Suboptimal Code

These issues were fixed.

5. TokenRegulatorService

In this section we describe issues related to the smart contract defined in the TokenRegulatorService.sol.

5.1 Documentation and Readability Issues

Documentation issues were fixed.

5.2 Unclear Behavior

These issues were fixed.

5.3 Suboptimal Code

These issues were fixed.

5.4 Major Flaws

The only major flaw was fixed.