

# Bax Token Audit

FEBRUARY 5, 2018 | IN SECURITY AUDITS | BY OPENZEPELIN SECURITY



The [BABB](#) team asked us to review and audit their Bax Token contract. We looked at the code and now publish our results.

The audited code is located in the [babbplatform/baxtoken](#) repository. The version used for this report is commit

`3ba88dd8fb3a97e6668cf2029b38610283e28c17`.

Here is our assessment and recommendations, in order of importance.

*Update: The BABB team has followed our recommendations and updated the Bax Token contract. The new version is at commit*

`e55371a30b9432023821a6e2ba2c77a8e1e26994` .

## Critical severity

No critical issues were found.

## High severity

No high severity issues were found.

## Medium severity

No medium severity issues were found.

## Low severity

### Lack of integration tests

The `BaxToken` makes use of the `BurnableToken` and `CappedToken` contracts of the OpenZeppelin framework. Although there are unit tests ensuring their correct behavior within the OpenZeppelin repository, there is no integration test to ensure the `BaxToken` behaves the way it is expected.

Consider adding integration tests to check `BaxToken` behavior and initialization.

*Update: Fixed in commit* `ea5268b` .

## Notes & Additional Information

- `BaxToken` uses some OpenZeppelin's contracts claiming to be version 1.5.0, but there is no such declared dependency in the project. Consider declaring this dependency explicitly following our [installation recommendation](#) via the `zeppelin-solidity` NPM package.

*Update: Fixed in commit* `be9f106` .

- The 1.5.0 version of the OpenZeppelin framework includes a parameterized ERC20 token contract called `DetailedERC20` . Consider inheriting `BaxToken` from it to reuse that functionality.

*Update: Fixed in commit* `c0fa245` .

## Conclusion

No critical or high severity issues were found. Some changes were proposed to follow best practices and reduce potential attack surface.

\_Note that as of the date of publishing, the above review reflects the current understanding of known security patterns as they relate to the Bax Token contracts. We have not reviewed the related BABB project. The above should not be construed as investment advice. For general information about smart contract security, check out our thoughts [here](#).

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