Render Token Audit

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Security Audits

The Otoy team asked us to review and audit their Render Token (RNDR) and crowdsale contracts. We looked at the code and now publish our results.

The audited contract is in the <u>RenderToken/rendertoken</u> repository. The version used for this report is the commit 2967e106004e26cbad5b9a34e57e7f07bde45256.

Good job using OpenZeppelin to write minimal extra code!

Here's our assessment and recommendations, in order of importance.

Low Severity

Misuse of FinalizableCrowdsale

(This was written for <u>a previous version</u> that was audited, and it was later <u>fixed</u>.)

As it is documented in the <u>comments</u>, to use <code>FinalizableCrowdsale</code> you must inherit from it and define a custom <code>finalization</code> function. Instead, <code>finalize</code> was redefined. Although this isn't causing any problems in the current state of the code, the misuse of the library hinders maintainability and may cause severe problems in future revisions. Remove this function and move the extra minting to a <code>finalization</code> function.

Notes

- Consider adding events to log when an address is added or removed from the whitelist.
- (This was written for <u>a previous version</u> that was audited.) What is named "minimum cap"

 (<u>minCap</u>) is not really a cap, because the word means an upper bound. In OpenZeppelin we use the term "goal" to refer to this concept.
- RenderToken is an instance of MintableToken, which has a public variable mintingFinished initially set to false. Since this is a public variable that will be shown in interfaces (such as Etherscan's) it might cause some confusion if it remains false after the crowdsale ends. Consider calling token.finishMinting() at finalization, to set the variable to true and avoid this potential confusion.
- The final token allocation will be: 25% of supply will have been on sale in the crowdsale, 65% is assigned to the foundation, and 10% will be held by the founders. Tokens not sold in the crowdsale will be sent to the foundation.

Conclusion

One low severity issue was found and explained, along with recommendations on how to fix it.

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