

# SOMISH

Blockchain Labs

## **Smart Contract Audit Report** ***Ace Entertainment***

**April 15th, 2020**

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## Summary

Audit Report prepared by Somish Blockchain Labs for Ace Entertainment smart contract.

## Process and Delivery

Two (2) independent experts performed an unbiased and isolated audit of the code below. The debrief took place on April 15th, 2020, and the final results are presented here.

## Audited Files

The following contract(s) were covered during the audit:

- **eosio.token.cpp**
- **eosio.token.hpp**

## Client Documents

The following document(s) were provided by the client for the purpose of the audit:

- Main - [Whitepaper](#) of Ace Entertainment V200318.01

## Notes

Audit was performed on smart contracts shared via email dated 26th March 2020.

### Intended Behavior

### ACE Concept

ACE aims to be a Hyperconnected Entertainment Coin, an EOS-based utility token that shall be used directly in the entertainment business carried out by ACE Entertainment LLC and its ACE Alliance partners or as a token to share the profits of business activities. ACE holders contribute to decision-making and healthy growth of the ACE ecosystem by participating as a member of the ACE token economy system, and in exchange for this, they share the benefits of ecosystem growth.

### Direct Use in ACE ENTERTAINMENT Service

Used as in-game goods across various game platforms such as mobile / PC / VR / casual genre. Used for entering sports stadiums / sponsoring teams and players / purchasing

goods. Used to watch streaming online videos and support streamer. Used to purchase meals / drinks / alcoholic beverages at ACE Mind Sports Lounge Pub. Used to purchase goods in offline stores where the ACE-POS SYSTEM is connected. Used to purchase goods from ACE Online Store.

## Revenue Distribution with ACE ENTERTAINMENT

ACE can be Committed to share the profits of business activities

### Summary

ACE is an EOS-based utility token issued by ACE Entertainment. ACE holders can participate in decision-making on the platform operation of the ACE Entertainment ecosystem and share the benefits of ecosystem growth. ACE holders can use ACE for various entertainment services operated by ACE Entertainment.

### Implementation

The token contract audited has the following functionalities:

1. Create - Allows the owner to create ACE token with a specified maximum supply.
2. Issue - Allows the owner to issue tokens to self.
3. Transfer - Allows transfer of tokens from one user's account to another.
4. Retire - Allows issuer to burn owned tokens.

## Issues Found

### Critical

No Critical issues found.

### Major

No Major issues found.

### Minor

No Minor issues found.

Since the smart contract of Ace Token inherits and uses the open-source and standard smart contracts of eosio.token, no critical, major or minor issues were found.

The contracts are well written and well documented as well. However there are some notes regarding the token contract which are mentioned below.

## Notes

### 1. Token Distribution and commit not implemented

The whitepaper mentions that a part of the distribution of tokens after the fund raise will happen internally and 50% shall be open for Token Sale. The token contract does not contain any logic for token distribution. Generally, the token distribution is implemented in a separate crowd sale smart contract which is outside the scope of this audit.

The whitepaper also talks about committing tokens for utility in the application. However, we did not find any logic in the token contract for the same. We assume it shall be developed separately and is not in the current scope of audit.

## Closing Summary

Upon audit of Ace Entertainment's smart contract, it was observed that the contract does not contain any critical, major or minor issues. Resolving for the areas of notes are up to Ace Entertainment's discretion. The notes refer to improving the operations of the smart contract.

## Disclaimer

Somish Blockchain Labs's audit is not a security warranty, investment advice, or an endorsement of the Ace Entertainment's platform or its products. This audit does not provide a security or correctness guarantee of the audited smart contract. Securing smart contracts is a multistep process, therefore running a bug bounty program as a complement to this audit is strongly recommended.

The individual audit reports are anonymized and combined during a debrief process, in order to provide an unbiased delivery and protect the auditors of Somish from legal and financial liability.

*Somish Solutions Limited*