



智能合约安全审计报告



慢雾安全团队于 2018-09-14 日，收到 LVECoin 团队对 LVECoin 项目智能合约安全审计申请。如下为本次智能合约安全审计细节及结果：

Token 名称：

LVE

合约地址：

LVECoin.sol: 0x428d941e0a014bb5cdeb09bb00bc7b245221bdb0

FoundingTeam.sol: 0x652c60cc42078a923dbf3a19be61c0040bd02c6e

链接地址：

LVECoin.sol:

<https://etherscan.io/address/0x428d941e0a014bb5cdeb09bb00bc7b245221bdb0>

FoundingTeam.sol:

<https://etherscan.io/address/0x652c60cc42078a923dbf3a19be61c0040bd02c6e>

本次审计项及结果：

(其他未知安全漏洞不包含在本次审计责任范围)

序号	审计大类	审计子类	审计结果
1	溢出审计	-	通过
2	条件竞争审计	-	通过
3	权限控制审计	权限漏洞审计	通过
		权限过大审计	通过
4	安全设计审计	Zeppelin 模块使用安全	通过
		编译器版本安全	通过
		硬编码地址安全	通过
		Fallback 函数使用安全	通过
		显现编码安全	通过
		函数返回值安全	通过
		call 调用安全	通过
5	拒绝服务审计	-	通过

6	Gas 优化审计	-	通过
7	设计逻辑审计	-	通过
8	“假充值” 漏洞审计	-	通过
9	恶意 Event 事件日志审计	-	通过
10	未初始化的存储指针	-	通过
11	算术精度误差	-	通过

备注：审计意见及建议见代码注释 //SlowMist//.....

审计结果：**通过**

审计编号：0X001809190001

审计日期：2018 年 09 月 19 日

审计团队：慢雾安全团队

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总结：此为代币(token)合约，含锁仓(tokenVault)部分，合约使用了 OpenZeppelin 的 SafeMath 安全模块，值得称赞的做法，综合评估合约无风险。

合约源代码如下：

LVECoin.sol

//SlowMist// 合约不存在溢出、条件竞争问题

```
pragma solidity ^0.4.24;
```

```
// *-----*
//
//  _ _ _ _ _
//  / / | / / _ / _ / _ \ / / /
//  / / | / / _ / / / / / / / /
//  / / _ | / / _ / / _ / / / / /
//  / _ / / / / \ / \ / / / / /
// *-----*
```

```
/**  
 * @title SafeMath  
 */
```

//SlowMist// 使用了 OpenZeppelin 的 SafeMath 安全模块, 值得称赞的做法

```
library SafeMath {  
  
    function mul(uint256 a, uint256 b) internal pure returns (uint256) {  
        if (a == 0) {  
            return 0;  
        }  
        uint256 c = a * b;  
        assert(c / a == b);  
        return c;  
    }  
  
    function div(uint256 a, uint256 b) internal pure returns (uint256) {  
        uint256 c = a / b;  
        return c;  
    }  
  
    function sub(uint256 a, uint256 b) internal pure returns (uint256) {  
        assert(b <= a);  
        return a - b;  
    }  
  
    function add(uint256 a, uint256 b) internal pure returns (uint256) {  
        uint256 c = a + b;  
        assert(c >= a);  
        return c;  
    }  
}  
  
/**  
 * @title Ownable  
 * @ multiSig  
 */  
contract Ownable {  
  
    // _from: oldOwner _to: newOwner
```

```
event OwnershipTransferred(address indexed _from, address indexed _to);
event SubmitPrps(ProposalType indexed _prpsType);
event SignPrps(uint256 indexed _prpsIdx, ProposalType indexed _prpsType, address indexed _from);

// owner proposal type enum
enum ProposalType {
    freeze,
    unfreeze,
    transferOwner
}
// owner proposal
struct Proposal {
    ProposalType prpsType;
    address fromAddr;
    address toAddr;
    mapping(address => bool) signed;
    bool finalized;
}
// require sign owner number
uint256 public requiredSignNum;
// all owner address
address[] public owners;
// owner proposal list
Proposal[] public proposals;
// is owner mapping
mapping(address => bool) public isOwnerMap;

constructor() public{
}

// is owner
modifier isOwner{
    require(isOwnerMap[msg.sender], "");
    _;
}

// is most owner sign proposal
modifier multiSig(uint256 _prpsIdx) {
    // is more than half(多数决)
    require(signOwnerCount(_prpsIdx) >= requiredSignNum, "");
    // proposal is not finalized
    require(proposals[_prpsIdx].finalized == false, "");
    _;
}
```



```
}

// owner sign an proposal
function signProposal(uint256 _prpsIdx) public isOwner isPrpsExists(_prpsIdx) checkSignPrps(_prpsIdx){
    proposals[_prpsIdx].signed[msg.sender] = true;
    emit SignPrps(_prpsIdx, proposals[_prpsIdx].prpsType, msg.sender);
}

// get proposal owner sign number(多数决)
function signOwnerCount(uint256 _prpsIdx) public view isPrpsExists(_prpsIdx) returns(uint256) {
    uint256 signedCount = 0;
    for(uint256 i = 0; i < owners.length; i++) {
        if(proposals[_prpsIdx].signed[owners[i]] == true){
            signedCount++;
        }
    }
    return signedCount;
}

// proposal count nums
function getProposalCount() public view returns(uint256){
    return proposals.length;
}

// get proposal sign status info
function getProposalInfo(uint256 _prpsIdx) public view isPrpsExists(_prpsIdx) returns(ProposalType
_prpsType, uint256 _signedCount, bool _isFinalized, address _fromAddr, address _toAddr){

    Proposal memory _proposal = proposals[_prpsIdx];
    uint256 signCount = signOwnerCount(_prpsIdx);
    return (_proposal.prpsType, signCount, _proposal.finalized, _proposal.fromAddr,
_proposal.toAddr);
}

// Transfer owner
function transferOwnership(uint256 _prpsIdx) public isOwner isPrpsExists(_prpsIdx) multiSig(_prpsIdx)
{

    // is right enum proposalType
    require(proposals[_prpsIdx].prpsType == ProposalType.transferOwner, "");
    address oldOwnerAddr = proposals[_prpsIdx].fromAddr;
    address newOwnerAddr = proposals[_prpsIdx].toAddr;
```

```
require(oldOwnerAddr != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成
```

Gas 的消耗

```
require(newOwnerAddr != address(0), ""); //SlowMist// 这类检查很好, 避免操作失误导致合约
```

控制权丢失

```
require(oldOwnerAddr != newOwnerAddr, "");
for(uint256 i = 0; i < owners.length; i++) {
    if( owners[i] == oldOwnerAddr){
        owners[i] = newOwnerAddr;
        delete isOwnerMap[oldOwnerAddr];
        isOwnerMap[newOwnerAddr] = true;
    }
}
proposals[_prpsIdx].finalized = true;
emit OwnershipTransferred(oldOwnerAddr, newOwnerAddr);
}
}
```

```
/**
 * @title Pausable
 */
```

//SlowMist// 在出现重大交易异常时可以暂停所有交易, 值得称赞的做法

```
contract Pausable is Ownable {

    event Pause();
    event Unpause();

    bool public paused = false;

    modifier whenNotPaused {
        require(!paused, "");
        _;
    }

    modifier whenPaused {
```



```
        require(paused, "");
        _;
    }

    // Pause contract
    function pause() public isOwner whenNotPaused returns (bool) {
        paused = true;
        emit Pause();
        return true;
    }

    // Unpause contract
    function unpause() public isOwner whenPaused returns (bool) {
        paused = false;
        emit Unpause();
        return true;
    }
}

/**
 * @title ERC20 interface
 */
contract ERC20 {
    event Transfer(address indexed _from, address indexed _to, uint256 _amount);
    // _from: _owner _to: _spender
    event Approval(address indexed _from, address indexed _to, uint256 _amount);
    function totalSupply() public view returns (uint256);
    function balanceOf(address _owner) public view returns (uint256);
    function transfer(address _to, uint256 _value) public returns (bool);
    function transferFrom(address _from, address _to, uint256 _value) public returns (bool);
    function approve(address _spender, uint256 _value) public returns (bool);
    function allowance(address _owner, address _spender) public view returns (uint256);
}

/**
 * @title ERC20Token
 */
contract ERC20Token is ERC20 {
```

```
using SafeMath for uint256;

mapping(address => uint256) balances;
mapping(address => mapping (address => uint256)) allowed;
uint256 public totalToken;

function totalSupply() public view returns (uint256) {
    return totalToken;
}

function balanceOf(address _owner) public view returns (uint256) {
    require(_owner != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas
```

的消耗

```
    return balances[_owner];
}

// Transfer token by internal
function _transfer(address _from, address _to, uint256 _value) internal {
    require(_to != address(0), ""); //SlowMist// 这类检查很好, 避免用户失误导致 Token 转丢
    require(balances[_from] >= _value, "");

    balances[_from] = balances[_from].sub(_value);
    balances[_to] = balances[_to].add(_value);
    emit Transfer(_from, _to, _value);
}

function transfer(address _to, uint256 _value) public returns (bool) {
    require(_to != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas 的消
```

耗

```
    _transfer(msg.sender, _to, _value);

    return true; //SlowMist// 返回值符合 EIP20 规范
}

function transferFrom(address _from, address _to, uint256 _value) public returns (bool){
```

```
require(_from != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas 的
```

消耗

```
require(_to != address(0), ""); //SlowMist// 这类检查很好, 避免用户失误导致 Token 转丢
```

```
require(_value > 0, "");  
require(balances[_from] >= _value, "");  
require(allowed[_from][msg.sender] >= _value, "");
```

```
balances[_from] = balances[_from].sub(_value);  
balances[_to] = balances[_to].add(_value);  
allowed[_from][msg.sender] = allowed[_from][msg.sender].sub(_value);  
emit Transfer(_from, _to, _value);
```

```
return true; //SlowMist// 返回值符合 EIP20 规范
```

```
}
```

```
function approve(address _spender, uint256 _value) public returns (bool){
```

```
require(_spender != address(0), ""); //SlowMist// 这类检查很好, 避免用户失误导致授权错误
```

```
require(_value > 0, "");  
allowed[msg.sender][_spender] = _value;  
emit Approval(msg.sender, _spender, _value);
```

```
return true; //SlowMist// 返回值符合 EIP20 规范
```

```
}
```

```
function allowance(address _owner, address _spender) public view returns (uint256){
```

```
require(_owner != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas
```

的消耗

```
require(_spender != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas
```

的消耗

```
return allowed[_owner][_spender];
```

```
    }  
  
}  
  
/**  
 * @title LVECoin  
 */  
contract LVECoin is ERC20Token, Pausable {  
  
    string public constant name          = "LVECoin";  
    string public constant symbol       = "LVE";  
    uint256 public constant decimals    = 18;  
    // issue all token  
    uint256 private initialToken       = 2000000000 * (10 ** decimals);  
  
    // _to: _freezeAddr  
    event Freeze(address indexed _to);  
    // _to: _unfreezeAddr  
    event Unfreeze(address indexed _to);  
    event WithdrawalEther(address indexed _to, uint256 _amount);  
  
    // freeze account mapping  
    mapping(address => bool) public freezeAccountMap;  
    // wallet Address  
    address private walletAddr;  
    // owner sign threshold  
    uint256 private signThreshold      = 3;  
  
    constructor(address[] _initOwners, address _walletAddr) public {  
        require(_initOwners.length == signThreshold, "");  
  
        require(_walletAddr != address(0), ""); //SlowMist// 这类检查很好, 避免操作失误设置错了  
  
        walletAddr = _walletAddr;  
    }  
  
    // init owners  
    requiredSignNum = _initOwners.length.div(2).add(1);  
    owners = _initOwners;  
    for(uint i = 0; i < _initOwners.length; i++) {  
        isOwnerMap[_initOwners[i]] = true;  
    }  
}
```

```
totalToken = initialToken;
walletAddr = _walletAddr;
balances[msg.sender] = totalToken;
emit Transfer(0x0, msg.sender, totalToken);
}

// is freezeable account
modifier freezeable(address _addr) {

    require(_addr != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas 的
    消耗

    require(!freezeAccountMap[_addr], "");
    _;
}

function transfer(address _to, uint256 _value) public whenNotPaused freezeable(msg.sender) returns
(bool) {

    require(_to != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas 的消
    耗

    return super.transfer(_to, _value);
}

function transferFrom(address _from, address _to, uint256 _value) public whenNotPaused
freezeable(msg.sender) returns (bool) {

    require(_from != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas 的
    消耗

    require(_to != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas 的消
    耗

    return super.transferFrom(_from, _to, _value);
}

function approve(address _spender, uint256 _value) public whenNotPaused freezeable(msg.sender) returns
(bool) {
```

```
require(_spender != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas
```

的消耗

```
    return super.approve(_spender, _value);  
}
```

```
// freeze account
```

```
function freezeAccount(uint256 _prpsIdx) public isOwner isPrpsExists(_prpsIdx) multiSig(_prpsIdx)  
returns (bool) {
```

```
    // is right enum proposalType
```

```
    require(proposals[_prpsIdx].prpsType == ProposalType.freeze, "");  
    address freezeAddr = proposals[_prpsIdx].toAddr;
```

```
    require(freezeAddr != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas
```

的消耗

```
    // proposals execute over
```

```
    proposals[_prpsIdx].finalized = true;  
    freezeAccountMap[freezeAddr] = true;  
    emit Freeze(freezeAddr);  
    return true;
```

```
}
```

```
// unfreeze account
```

```
function unfreezeAccount(uint256 _prpsIdx) public isOwner isPrpsExists(_prpsIdx) multiSig(_prpsIdx)  
returns (bool) {
```

```
    // is right enum proposalType
```

```
    require(proposals[_prpsIdx].prpsType == ProposalType.unfreeze, "");  
    address freezeAddr = proposals[_prpsIdx].toAddr;
```

```
    require(freezeAddr != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas
```

的消耗

```
    // proposals execute over
```

```
    proposals[_prpsIdx].finalized = true;  
    freezeAccountMap[freezeAddr] = false;  
    emit Unfreeze(freezeAddr);  
    return true;
```



```
function div(uint256 a, uint256 b) internal pure returns (uint256) {
    uint256 c = a / b;
    return c;
}

function sub(uint256 a, uint256 b) internal pure returns (uint256) {
    assert(b <= a);
    return a - b;
}

function add(uint256 a, uint256 b) internal pure returns (uint256) {
    uint256 c = a + b;
    assert(c >= a);
    return c;
}
}

/**
 * @title Ownable
 */
contract Ownable {

    address public owner;

    // _from: oldOwner _to: newOwner
    event OwnershipTransferred(address indexed _from, address indexed _to);

    constructor() public{
        owner = msg.sender;
    }

    // Modifier onlyOwner
    modifier onlyOwner {
        require(msg.sender == owner, "");
        _;
    }

    // Transfer owner
    function transferOwnership(address _newOwner) public onlyOwner {
```



```
require(_newOwner != address(0), ""); //SlowMist// 这类检查很好，避免操作失误导致合约控
```

制权丢失

```
        emit OwnershipTransferred(owner, _newOwner);
        owner = _newOwner;
    }
}

/**
 * @title Pausable
 */
contract Pausable is Ownable {

    event Pause();
    event Unpause();

    bool public paused = false;

    modifier whenNotPaused {
        require(!paused, "");
        _;
    }
    modifier whenPaused {
        require(paused, "");
        _;
    }

    // Pause contract
    function pause() public onlyOwner whenNotPaused returns (bool) {
        paused = true;
        emit Pause();
        return true;
    }

    // Unpause contract
    function unpause() public onlyOwner whenPaused returns (bool) {
        paused = false;
        emit Unpause();
        return true;
    }
}
```

```
    }  
  
}  
  
interface LVECoin {  
    function transfer(address _to, uint256 _value) external returns(bool);  
    function balanceOf(address _owner) external view returns (uint256);  
}  
  
/**  
 * @title FoundingTeam  
 */  
contract FoundingTeam is Pausable {  
  
    using SafeMath for uint256;  
  
    // token contract  
    LVECoin private tokenContract;  
    // token issue all amount  
    uint256 private totalToken          = 2000000000 * (10 ** 18);  
    // token supply amount  
    uint256 public tokenSupplyQuota     = totalToken.mul(50).div(1000);  
    // Lock end time  
    uint256 public tokenLockEndTime;  
    // already sold token  
    uint256 public tokensSold           = 0;  
  
    // Investor list  
    struct Investor{  
        uint256 endTime;           // token Locked end time  
        address addr;             // Locked address  
        bool isLocked;            // is Lock address  
        uint256 lockAmount;        // Locked token amount  
        uint256 investAmount;      // invest token amount  
    }  
    // investor mapping  
    mapping(address => Investor) public investorMap;  
    // freeze account mapping  
    mapping(address => bool) public freezeAccountMap;
```

```
// investor address list
address[] public investorsList;

// _to: _Locker
event Lock(address indexed _to, uint256 _amount, uint _endTime);
// _to: _unLocker
event UnLock(address indexed _to, uint256 _amount);
// _to: _freezeAddr
event Freeze(address indexed _to);
// _to: _unfreezeAddr
event Unfreeze(address indexed _to);
event WithdrawalToken(address indexed _to, uint256 _amount);
event WithdrawalEther(address indexed _to, uint256 _amount);

constructor(address _tokenAddr, uint256 _tokenLockEndTime) public{
    require(_tokenAddr != address(0), ""); //SlowMist// 这类检查很好, 避免操作失误设置错了
```

tokenContract 的地址

```
    require(_tokenLockEndTime > now, "");
    tokenLockEndTime = _tokenLockEndTime;
    tokenContract = LVECoin(_tokenAddr);
}

// is token on sale
modifier isOnSale() {
    // 供給總Token 額度 > 目前已售出token 數量 => true, 販售中
    require(tokenSupplyQuota > tokensSold, "");
    _;
}

// is freezeable account
modifier freezeable(address _addr) {

    require(_addr != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas 的
    消耗

    require(!freezeAccountMap[_addr], "");
    _;
}
```

```
// get contract own token amount
function getContractTokenBalance() public view returns(uint256 _rContractTokenAmount){
    return tokenContract.balanceOf(address(this));
}
```

```
// transfer token and Lock
function transferTokenAndLock(address _beneficiary, uint256 _amount) public onlyOwner isOnSale
freezeable(_beneficiary){

    require(_beneficiary != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成
```

Gas 的消耗

```
// 目前已售出 token 數量
tokensSold = tokensSold.add(_amount);
// 判断是否有超过总供给 Token 额度
require(tokenSupplyQuota >= tokensSold, "");
// add investor token Locktime
addlockAccount(_beneficiary, tokenLockEndTime, _amount);
}
```

```
// Locked warehouse function
function addlockAccount(address _lockAddr, uint256 _endTime, uint256 _lockAmount) internal
returns(bool){

    require(_lockAddr != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas
```

的消耗

```
require(_endTime >= now, "");
require(_lockAmount > 0, "");
if(investorMap[_lockAddr].addr != _lockAddr){
    investorsList.push(_lockAddr);
}
Investor memory investor;
investor.endTime = _endTime;
investor.addr = _lockAddr;
investor.isLocked = true;
investor.lockAmount = investorMap[_lockAddr].lockAmount.add(_lockAmount);
investor.investAmount = investorMap[_lockAddr].investAmount.add(_lockAmount);
```

```
investorMap[_lockAddr] = investor;

emit Lock(_lockAddr, _lockAmount, _endTime);
return true;
}
```

```
// freeze account
```

```
function freezeAccount(address _freezeAddr) public onlyOwner returns (bool) {

    require(_freezeAddr != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成
```

Gas 的消耗

```
freezeAccountMap[_freezeAddr] = true;
emit Freeze(_freezeAddr);
return true;
}
```

```
// unfreeze account
```

```
function unfreezeAccount(address _freezeAddr) public onlyOwner returns (bool) {

    require(_freezeAddr != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成
```

Gas 的消耗

```
freezeAccountMap[_freezeAddr] = false;
emit Unfreeze(_freezeAddr);
return true;
}
```

```
// get single investor invest information
```

```
function getSingleInvestor(address _addr) public view returns(uint256 _rEndTime, address _rAddr, bool
_rIsLocked, uint256 _rLockAmount, uint256 _rInvestAmount){
```

```
    require(_addr != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成 Gas 的
```

消耗

```
Investor memory investor = investorMap[_addr];
return(investor.endTime, investor.addr, investor.isLocked, investor.lockAmount,
investor.investAmount);
}
```

```
// get investor count
function getInvestorCount() public view returns(uint256 _rInvestorCount){
    return investorsList.length;
}

// get investor address
function getInvestorAddr(uint256 _index) public view returns(address _rInvestorAddr){
    return investorsList[_index];
}

// after tokenLockEndTime owner Token
function withdrawTokenToInvestorOwner(address _investorAddr) public onlyOwner returns(bool){
    require(_investorAddr != address(0), ""); //SlowMist// 这类检查很好, 避免操作无用地址造成
```

Gas 的消耗

```
require(now > tokenLockEndTime, "");
Investor memory investor = investorMap[_investorAddr];
if(investor.isLocked && now > investor.endTime && !freezeAccountMap[investor.addr]){
    require(tokenContract.transfer(investor.addr, investor.lockAmount), "");
    emit WithdrawalToken(investor.addr, investor.lockAmount);
    investor.endTime = 0;
    investor.isLocked = false;
    investor.lockAmount = 0;
    investorMap[investor.addr] = investor;
    emit Unlock(investor.addr, investor.lockAmount);
}
return true;
}

// after tokenLockEndTime batch Token
function withdrawBatchTokenToInvestor() public onlyOwner returns(bool){
    require(now > tokenLockEndTime, "");
    // count investor nums
    uint256 investorCount = getInvestorCount();
    require(investorCount > 0, "");
    for (uint256 i = 0; i < investorCount; i++) {
        address investorAddr = investorsList[i];
        Investor memory investor = investorMap[investorAddr];
        if(investor.isLocked && now > investor.endTime && !freezeAccountMap[investor.addr]){
            require(tokenContract.transfer(investor.addr, investor.lockAmount), "");
```

```
        emit WithdrawalToken(investor.addr, investor.lockAmount);
        investor.endTime = 0;
        investor.isLocked = false;
        investor.lockAmount = 0;
        investorMap[investor.addr] = investor;
        emit UnLock(investor.addr, investor.lockAmount);
    }
}
return true;
}

// recycling Remain Token to wallet address
function recyclingRemainToken() public onlyOwner whenNotPaused returns(bool){
    require(now > tokenLockEndTime, "");
    uint256 remainToken = tokenSupplyQuota.sub(tokensSold);
    require(remainToken > 0, "");
    require (tokenContract.transfer(msg.sender, remainToken), "");
    pause();
    return true;
}
}
```



官方网址

www.slowmist.com

电子邮箱

team@slowmist.com

微信公众号

