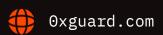


Smart contracts security assessment

Final report

BankaiCoin

December 2021





Contents

1.	Introduction	3
2.	Contracts checked	3
3.	Procedure	3
4.	Known vulnerabilities checked	4
5.	Classification of issue severity	5
6.	Issues	5
7.	Conclusion	10
8.	Disclaimer	11
9.	Slither check output	12

Ox Guard

December 2021

□ Introduction

The report has been prepared for BankaiCoin team.

The code is published to Github. The audit was done after commit 8f52e68. The recheck was done after the commit ea59cdf

Users should check if they interact with the same contracts as were audited.

Name	BankaiCoin	
Audit date	2021-12-09 - 2021-12-11	
Language	Solidity	
Platform	Ethereum	

Contracts checked

Name	Address

BankaiCoin

PrelcoEscrow

BankaiCoinCrowdsale

BankaiCoinAirdrop

Procedure

We perform our audit according to the following procedure:

Automated analysis

- Scanning the project's smart contracts with several publicly available automated Solidity analysis tools
- Manual verification (reject or confirm) all the issues found by the tools

Manual audit

- Manually analyse smart contracts for security vulnerabilities
- Smart contracts' logic check

Known vulnerabilities checked

Title	Check result
Unencrypted Private Data On-Chain	passed
Code With No Effects	not passed
Message call with hardcoded gas amount	passed
Typographical Error	passed
DoS With Block Gas Limit	passed
Presence of unused variables	not passed
Incorrect Inheritance Order	passed
Requirement Violation	passed
Weak Sources of Randomness from Chain Attributes	passed
Shadowing State Variables	passed
Incorrect Constructor Name	passed
Block values as a proxy for time	passed
Authorization through tx.origin	passed
DoS with Failed Call	passed
Delegatecall to Untrusted Callee	passed
Use of Deprecated Solidity Functions	passed
Assert Violation	passed
State Variable Default Visibility	passed

Reentrancy passed

Unprotected SELFDESTRUCT Instruction passed

Unprotected Ether Withdrawal passed

Unchecked Call Return Value passed

Floating Pragma not passed

Outdated Compiler Version not passed

Integer Overflow and Underflow passed

Function Default Visibility passed

Classification of issue severity

High severity High severity issues can cause a significant or full loss of funds, change

of contract ownership, major interference with contract logic. Such issues

require immediate attention.

Medium severity Medium severity issues do not pose an immediate risk, but can be

detrimental to the client's reputation if exploited. Medium severity issues may lead to a contract failure and can be fixed by modifying the contract

state or redeployment. Such issues require attention.

Low severity Low severity issues do not cause significant destruction to the contract's

functionality. Such issues are recommended to be taken into

consideration.

Issues

High severity issues

1. Mint is not restricted (BankaiCoin)

If the owner account gets compromised an unlimited number of coins can be minted.

Recommendation: We recommend removing mint() function or renouncing ownership after deployment.

Update: The issue was fixed. The mint() function was removed.

Medium severity issues

1. Bypass checks in buyTokensFromEscrow (PrelcoEscrow)

A user can bypass checks in buyTokensFromEscrow function by direct buyTokens() call.

Update: The issue was fixed. The buyTokensFromEscrow function has been commented out.

2. Bypass checks in buyTokensFromCrowdsale (BankaiCoinCrowdsale)

A user can bypass checks in buyTokensFromCrowdsalefunction by direct buyTokens() call.

Update: The issue was fixed. The buyTokensFromCrowdsale function has been commented out.

3. BKAI value is checked on ETH value (BankaiCoinCrowdsale)

Function buyTokensFromCrowdsale have require there minimumAmountOfBKAI is checked on ETH value of msg.value.

Update: The issue was fixed. The buyTokensFromCrowdsale function has been commented out.

4. Not full realization of ERC20 standard (BankaiCoinAirdrop)

BankaiCoinAirdrop implements functions from ERC20 token standard but lacks some regarding metadata (name(), symbol(), decimals()).

Update: The issue was fixed. Now BankaiCoinAirdrop is not an ERC20 token standard.

Low severity issues

1. Pausable is not used (BankaiCoin)

Contract BankaiCoin is Pausable, but Pausable is not used.

Recommendation: We recommend removing unused libraries and contracts.

Update: The issue was fixed. A whenNotPaused modifier has been added to the setCrowdsaleAddress function.

2. Emit events on importart value changes (BankaiCoin)

We recommend add emit events on important value changes, such as mint, chainges bankaiCoinCrowdsaleAddress and bankaiCoinEscrowAddress, transfers.

Update: The issue was fixed. Emit events have been added.

3. External and public function types (BankaiCoin)

Some functions can be declared external instead of public. This will save gas on calling them.

- mint
- setCrowdsaleAddress
- startPreIco
- startIco

Recommendation: Make these functions external.

Update: The issue was fixed. The functions have been declared external.



December 2021

7

4. External and public function types (PrelcoEscrow)

Some functions can be declared external instead of public. This will save gas on calling them.

- buyTokensFromEscrow
- stopPreIco

Update: The issue was fixed. The functions have been declared external.

5. Miniumum BKAI value is checked on ETH value (PrelcoEscrow)

Function buyTokensFromEscrow() have require there minumumAmountOfBKAI is checked on ETH value of msg.value.

Update: The issue was fixed. The buyTokensFromEscrow function has been commented out.

6. Unused local variable bancaiCoin (PrelcoEscrow)

The bancaiCoin variable has been created, but is not used.

7. safeTransfer instead transfer (PrelcoEscrow)

The result of the token transfer() function is not checked.

```
function stopPreIco(IERC20 token, address to) public {
    ...
    token.transfer(to, erc20balance);
    ...
}
```

Recommendation: We recommend transferring tokens with safeTransfer() function from SafeERC20 library instead of transfer().

Update: The issue was fixed. The transfer() function has been replaced by safe Transfer().

9

8. safeTransfer instead transfer (BankaiCoinCrowdsale)

We recommend token safeTransfer() should be used instead of transfer() because transfer() result not checked.

Update: The issue was fixed. The transfer() function has been replaced by safe Transfer().

9. External and public function types (BankaiCoinCrowdsale)

Some functions can be declared external instead of public. This will save gas on calling them.

- buyTokensFromCrowdsale
- stoplco

Update: The buyTokensFromCrowdsale function has been commented out.

10. Unused local variable bancaiCoin (BankaiCoinCrowdsale)

The bancaiCoin variable has been created, but is not used.

11. External and public function types (BankaiCoinAirdrop)

Some functions can be declared external instead of public. This will save gas on calling them.

newAirdropTransfer()

Update: The issue was fixed. The newAirdropTransfer() function has been removed.

Conclusion

BankaiCoin BankaiCoin, PrelcoEscrow, BankaiCoinCrowdsale, BankaiCoinAirdrop contracts were audited. 1 high, 4 medium, 11 low severity issues were found. Users should check if they interact with the same contracts as were audited.

Update. All high and medium severity issues were fixed. 13 of 16 issues were fixed total.

Disclaimer

This report is subject to the terms and conditions (including without limitation, description of services, confidentiality, disclaimer and limitation of liability)set forth in the Services Agreement, or the scope of services, and terms and conditions provided to the Company in connection with the Agreement. This report provided in connection with the Services set forth in the Agreement shall be used by the Company only to the extent permitted under the terms and conditions set forth in the Agreement. This report may not be transmitted, disclosed, referred to or relied upon by any person for any purposes without 0xGuard prior written consent.

This report is not, nor should be considered, an "endorsement" or "disapproval" of any particular project or team. This report is not, nor should be considered, an indication of the economics or value of any "product" or "asset" created by any team or project that contracts 0xGuard to perform a security assessment. This report does not provide any warranty or guarantee regarding the absolute bug-free nature of the technology analyzed, nor do they provide any indication of the technologies proprietors, business, business model or legal compliance.

This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

Slither check output

```
INFO:Detectors:
PreIcoEscrow.stopPreIco(IERC20,address) (PreIcoEscrow.sol#30-36) ignores return value
by token.transfer(to,erc20balance) (PreIcoEscrow.sol#34)
BankaiCoinCrowdsale.stopIco(IERC20,address) (BankaiCoinCrowdsale.sol#34-40) ignores
return value by token.transfer(to,erc20balance) (BankaiCoinCrowdsale.sol#38)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unchecked-
transfer
INFO: Detectors:
BankaiCoin.bankaiCoinCrowdsale (BankaiCoin.sol#16) is never initialized. It is used in:
        - BankaiCoin.slitherConstructorVariables() (BankaiCoin.sol#14-61)
BankaiCoin.preIcoEscrow (BankaiCoin.sol#19) is never initialized. It is used in:
        - BankaiCoin.slitherConstructorVariables() (BankaiCoin.sol#14-61)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#uninitialized-
state-variables
INFO:Detectors:
BankaiCoin.constructor(string, string, uint256).name (BankaiCoin.sol#30) shadows:
        - ERC20Detailed.name() (@openzeppelin/contracts/token/ERC20/
ERC20Detailed.sol#27-29) (function)
BankaiCoin.constructor(string, string, uint256).symbol (BankaiCoin.sol#31) shadows:
        - ERC20Detailed.symbol() (@openzeppelin/contracts/token/ERC20/
ERC20Detailed.sol#35-37) (function)
Crowdsale.constructor(uint256,address,IERC20).rate (@openzeppelin/contracts/crowdsale/
Crowdsale.sol#57) shadows:
        - Crowdsale.rate() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#94-96)
(function)
Crowdsale.constructor(uint256,address,IERC20).wallet (@openzeppelin/contracts/crowdsale/
Crowdsale.sol#57) shadows:
        - Crowdsale.wallet() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#87-89)
(function)
Crowdsale.constructor(uint256,address,IERC20).token (@openzeppelin/contracts/crowdsale/
Crowdsale.sol#57) shadows:
        - Crowdsale.token() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#80-82)
(function)
PreIcoEscrow.constructor(uint256,address,IERC20).rate (PreIcoEscrow.sol#13) shadows:
        - Crowdsale.rate() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#94-96)
(function)
PreIcoEscrow.constructor(uint256,address,IERC20).wallet (PreIcoEscrow.sol#14) shadows:
```

```
- Crowdsale.wallet() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#87-89)
(function)
PreIcoEscrow.constructor(uint256,address,IERC20).token (PreIcoEscrow.sol#15) shadows:
        - Crowdsale.token() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#80-82)
(function)
PreIcoEscrow.stopPreIco(IERC20,address).token (PreIcoEscrow.sol#30) shadows:
        - Crowdsale.token() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#80-82)
(function)
BankaiCoinCrowdsale.constructor(uint256,address,IERC20).rate
(BankaiCoinCrowdsale.sol#15) shadows:
        - Crowdsale.rate() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#94-96)
(function)
BankaiCoinCrowdsale.constructor(uint256,address,IERC20).wallet
(BankaiCoinCrowdsale.sol#16) shadows:
        - Crowdsale.wallet() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#87-89)
(function)
BankaiCoinCrowdsale.constructor(uint256,address,IERC20).token
(BankaiCoinCrowdsale.sol#17) shadows:
        - Crowdsale.token() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#80-82)
(function)
BankaiCoinCrowdsale.stopIco(IERC20,address).token (BankaiCoinCrowdsale.sol#34) shadows:
        - Crowdsale.token() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#80-82)
(function)
ERC20Detailed.constructor(string, string, uint8).name (@openzeppelin/contracts/token/
ERC20/ERC20Detailed.sol#18) shadows:
        - ERC20Detailed.name() (@openzeppelin/contracts/token/ERC20/
ERC20Detailed.sol#27-29) (function)
ERC20Detailed.constructor(string, string, uint8).symbol (@openzeppelin/contracts/token/
ERC20/ERC20Detailed.sol#18) shadows:
        - ERC20Detailed.symbol() (@openzeppelin/contracts/token/ERC20/
ERC20Detailed.sol#35-37) (function)
ERC20Detailed.constructor(string, string, uint8).decimals (@openzeppelin/contracts/token/
ERC20/ERC20Detailed.sol#18) shadows:
        - ERC20Detailed.decimals() (@openzeppelin/contracts/token/ERC20/
ERC20Detailed.sol#51-53) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-
shadowing
INFO:Detectors:
BankaiCoin.setCrowdsaleAddress(address,address)._crowdsaleAddress (BankaiCoin.sol#43)
lacks a zero-check on :
                - bankaiCoinCrowdsaleAddress = _crowdsaleAddress (BankaiCoin.sol#44)
```

```
BankaiCoin.setCrowdsaleAddress(address,address). escrowAddress (BankaiCoin.sol#43)
lacks a zero-check on :
                bankaiCoinEscrowAddress = _escrowAddress (BankaiCoin.sol#45)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-
address-validation
INFO: Detectors:
Reentrancy in Crowdsale.buyTokens(address) (@openzeppelin/contracts/crowdsale/
Crowdsale.sol#111-128):
       External calls:
        - _processPurchase(beneficiary,tokens) (@openzeppelin/contracts/crowdsale/
Crowdsale.sol#121)
                - _token.safeTransfer(beneficiary,tokenAmount) (@openzeppelin/contracts/
crowdsale/Crowdsale.sol#162)
                - (success, returndata) = address(token).call(data) (@openzeppelin/
contracts/token/ERC20/SafeERC20.so1#67)
        Event emitted after the call(s):
        - TokensPurchased(_msgSender(),beneficiary,weiAmount,tokens) (@openzeppelin/
contracts/crowdsale/Crowdsale.sol#122)
Reentrancy in BankaiCoinCrowdsale.stopIco(IERC20,address)
(BankaiCoinCrowdsale.sol#34-40):
        External calls:
        - token.transfer(to,erc20balance) (BankaiCoinCrowdsale.sol#38)
        Event emitted after the call(s):
        - TransferSent(msg.sender,to,erc20balance) (BankaiCoinCrowdsale.sol#39)
Reentrancy in PreIcoEscrow.stopPreIco(IERC20,address) (PreIcoEscrow.so1#30-36):
       External calls:
        - token.transfer(to,erc20balance) (PreIcoEscrow.sol#34)
        Event emitted after the call(s):
        - TransferSent(msg.sender,to,erc20balance) (PreIcoEscrow.sol#35)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-
vulnerabilities-3
INFO: Detectors:
Address.isContract(address) (@openzeppelin/contracts/utils/Address.sol#24-33) uses
assemblv
        - INLINE ASM (@openzeppelin/contracts/utils/Address.sol#31)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage
INFO: Detectors:
Different versions of Solidity is used:
        - Version used: ['>=0.4.22<0.9.0', '^0.5.0', '^0.5.5']
        - ^0.5.0 (@openzeppelin/contracts/access/Roles.sol#1)
        - ^0.5.0 (@openzeppelin/contracts/token/ERC20/ERC20Burnable.sol#1)
```

```
- ^0.5.0 (@openzeppelin/contracts/math/SafeMath.sol#1)
```

- ^0.5.0 (@openzeppelin/contracts/access/roles/PauserRole.sol#1)
- ^0.5.0 (BankaiCoinAirdrop.sol#2)
- ^0.5.0 (@openzeppelin/contracts/token/ERC20/SafeERC20.sol#1)
- ^0.5.5 (@openzeppelin/contracts/utils/Address.sol#1)
- ^0.5.0 (BankaiCoin.sol#2)
- ^0.5.0 (@openzeppelin/contracts/utils/ReentrancyGuard.sol#1)
- ^0.5.0 (@openzeppelin/contracts/GSN/Context.sol#1)
- ^0.5.0 (@openzeppelin/contracts/crowdsale/Crowdsale.sol#1)
- ^0.5.0 (@openzeppelin/contracts/lifecycle/Pausable.sol#1)
- ^0.5.0 (PreIcoEscrow.sol#1)
- ^0.5.0 (BankaiCoinCrowdsale.sol#2)
- ^0.5.0 (@openzeppelin/contracts/token/ERC20/ERC20Detailed.sol#1)
- >= 0.4.22 < 0.9.0 (Migrations.sol#2)
- ^0.5.0 (@openzeppelin/contracts/ownership/Ownable.sol#1)
- ^0.5.0 (@openzeppelin/contracts/token/ERC20/ERC20.sol#1)
- ^0.5.0 (@openzeppelin/contracts/token/ERC20/IERC20.sol#1)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#different-pragma-directives-are-used

INFO: Detectors:

BankaiCoin.bankaiCoinCrowdsaleAddress (BankaiCoin.sol#17) is set pre-construction with a non-constant function or state variable:

address(bankaiCoinCrowdsale)

BankaiCoin.bankaiCoinEscrowAddress (BankaiCoin.sol#20) is set pre-construction with a non-constant function or state variable:

- address(preIcoEscrow)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#function-initializing-state-variables

INFO:Detectors:

Pragma version^0.5.0 (@openzeppelin/contracts/access/Roles.sol#1) allows old versions Pragma version^0.5.0 (@openzeppelin/contracts/token/ERC20/ERC20Burnable.sol#1) allows old versions

Pragma version^0.5.0 (@openzeppelin/contracts/math/SafeMath.sol#1) allows old versions Pragma version^0.5.0 (@openzeppelin/contracts/access/roles/PauserRole.sol#1) allows old versions

Pragma version^0.5.0 (BankaiCoinAirdrop.sol#2) allows old versions

Pragma version^0.5.0 (@openzeppelin/contracts/token/ERC20/SafeERC20.sol#1) allows old versions

Pragma version $^{\circ}$ 0.5.5 (@openzeppelin/contracts/utils/Address.sol#1) is known to contain severe issues (https://solidity.readthedocs.io/en/latest/bugs.html)

Pragma version^0.5.0 (BankaiCoin.sol#2) allows old versions

```
Pragma version^0.5.0 (@openzeppelin/contracts/utils/ReentrancyGuard.sol#1) allows old
versions
Pragma version^0.5.0 (@openzeppelin/contracts/GSN/Context.sol#1) allows old versions
Pragma version^0.5.0 (@openzeppelin/contracts/crowdsale/Crowdsale.sol#1) allows old
versions
Pragma version^0.5.0 (@openzeppelin/contracts/lifecycle/Pausable.sol#1) allows old
versions
Pragma version^0.5.0 (PreIcoEscrow.sol#1) allows old versions
Pragma version^0.5.0 (BankaiCoinCrowdsale.sol#2) allows old versions
Pragma version^0.5.0 (@openzeppelin/contracts/token/ERC20/ERC20Detailed.sol#1) allows
old versions
Pragma version>=0.4.22<0.9.0 (Migrations.sol#2) is too complex
Pragma version^0.5.0 (@openzeppelin/contracts/ownership/Ownable.sol#1) allows old
versions
Pragma version^0.5.0 (@openzeppelin/contracts/token/ERC20/ERC20.sol#1) allows old
versions
Pragma version^0.5.0 (@openzeppelin/contracts/token/ERC20/IERC20.sol#1) allows old
versions
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-
versions-of-solidity
INFO:Detectors:
Low level call in SafeERC20.callOptionalReturn(IERC20,bytes) (@openzeppelin/contracts/
token/ERC20/SafeERC20.so1#55-74):
        - (success, returndata) = address(token).call(data) (@openzeppelin/contracts/
token/ERC20/SafeERC20.so1#67)
Low level call in Address.sendValue(address,uint256) (@openzeppelin/contracts/utils/
Address.so1#63-69):
        - (success) = recipient.call.value(amount)() (@openzeppelin/contracts/utils/
Address.so1#67)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-
calls
INFO:Detectors:
Parameter BankaiCoinAirdrop.newAirdropTransfer(address,uint256)._to
(BankaiCoinAirdrop.sol#8) is not in mixedCase
Parameter BankaiCoinAirdrop.newAirdropTransfer(address,uint256)._airdropAmount
(BankaiCoinAirdrop.sol#8) is not in mixedCase
Parameter BankaiCoin.setCrowdsaleAddress(address,address). crowdsaleAddress
(BankaiCoin.sol#43) is not in mixedCase
Parameter BankaiCoin.setCrowdsaleAddress(address,address)._escrowAddress
(BankaiCoin.sol#43) is not in mixedCase
Parameter PreIcoEscrow.buyTokensFromEscrow(address)._beneficiary (PreIcoEscrow.sol#22)
```

```
is not in mixedCase
Parameter BankaiCoinCrowdsale.buyTokensFromCrowdsale(address)._beneficiary
(BankaiCoinCrowdsale.sol#26) is not in mixedCase
Variable Migrations.last_completed_migration (Migrations.sol#6) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-
solidity-naming-conventions
INFO: Detectors:
Redundant expression "this (@openzeppelin/contracts/GSN/Context.sol#24)" inContext
(@openzeppelin/contracts/GSN/Context.sol#13-27)
Redundant expression "this (@openzeppelin/contracts/crowdsale/Crowdsale.sol#142)"
inCrowdsale (@openzeppelin/contracts/crowdsale/Crowdsale.sol#21-200)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-
statements
INFO:Detectors:
Variable BankaiCoin.permissionO (BankaiCoin.sol#27) is too similar to
BankaiCoin.permission1 (BankaiCoin.sol#26)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-
are-too-similar
INFO: Detectors:
burn(uint256) should be declared external:
        - ERC20Burnable.burn(uint256) (@openzeppelin/contracts/token/ERC20/
ERC20Burnable.sol#17-19)
burnFrom(address, uint256) should be declared external:
        - ERC20Burnable.burnFrom(address,uint256) (@openzeppelin/contracts/token/ERC20/
ERC20Burnable.so1#24-26)
addPauser(address) should be declared external:
        - PauserRole.addPauser(address) (@openzeppelin/contracts/access/roles/
PauserRole.sol#27-29)
renouncePauser() should be declared external:
        - PauserRole.renouncePauser() (@openzeppelin/contracts/access/roles/
PauserRole.sol#31-33)
newAirdropTransfer(address, uint256) should be declared external:
        - BankaiCoinAirdrop.newAirdropTransfer(address,uint256)
(BankaiCoinAirdrop.sol#8-10)
mint(address, uint256) should be declared external:
        - BankaiCoin.mint(address, uint256) (BankaiCoin.sol#39-41)
setCrowdsaleAddress(address, address) should be declared external:
        - BankaiCoin.setCrowdsaleAddress(address,address) (BankaiCoin.sol#43-46)
startPreIco() should be declared external:
        - BankaiCoin.startPreIco() (BankaiCoin.sol#48-52)
startIco() should be declared external:
```

```
- BankaiCoin.startIco() (BankaiCoin.sol#54-58)
token() should be declared external:
        - Crowdsale.token() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#80-82)
wallet() should be declared external:
        - Crowdsale.wallet() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#87-89)
rate() should be declared external:
        - Crowdsale.rate() (@openzeppelin/contracts/crowdsale/Crowdsale.sol#94-96)
weiRaised() should be declared external:
        - Crowdsale.weiRaised() (@openzeppelin/contracts/crowdsale/
Crowdsale.sol#101-103)
paused() should be declared external:
        - Pausable.paused() (@openzeppelin/contracts/lifecycle/Pausable.sol#39-41)
pause() should be declared external:
        - Pausable.pause() (@openzeppelin/contracts/lifecycle/Pausable.sol#62-65)
unpause() should be declared external:
        - Pausable.unpause() (@openzeppelin/contracts/lifecycle/Pausable.sol#70-73)
buyTokensFromEscrow(address) should be declared external:
        - PreIcoEscrow.buyTokensFromEscrow(address) (PreIcoEscrow.so1#22-28)
stopPreIco(IERC20,address) should be declared external:
        - PreIcoEscrow.stopPreIco(IERC20,address) (PreIcoEscrow.sol#30-36)
buyTokensFromCrowdsale(address) should be declared external:
        - BankaiCoinCrowdsale.buyTokensFromCrowdsale(address)
(BankaiCoinCrowdsale.sol#26-32)
stopIco(IERC20,address) should be declared external:
        - BankaiCoinCrowdsale.stopIco(IERC20,address) (BankaiCoinCrowdsale.sol#34-40)
name() should be declared external:
        - ERC20Detailed.name() (@openzeppelin/contracts/token/ERC20/
ERC20Detailed.sol#27-29)
symbol() should be declared external:
        - ERC20Detailed.symbol() (@openzeppelin/contracts/token/ERC20/
ERC20Detailed.sol#35-37)
decimals() should be declared external:
        - ERC20Detailed.decimals() (@openzeppelin/contracts/token/ERC20/
ERC20Detailed.sol#51-53)
setCompleted(uint256) should be declared external:
        - Migrations.setCompleted(uint256) (Migrations.sol#16-18)
owner() should be declared external:
        - Ownable.owner() (@openzeppelin/contracts/ownership/Ownable.sol#30-32)
renounceOwnership() should be declared external:
        - Ownable.renounceOwnership() (@openzeppelin/contracts/ownership/
Ownable.so1#56-59)
```

```
transferOwnership(address) should be declared external:
```

- Ownable.transferOwnership(address) (@openzeppelin/contracts/ownership/Ownable.sol#65-67)

totalSupply() should be declared external:

- ERC20.totalSupply() (@openzeppelin/contracts/token/ERC20/ERC20.sol#43-45) allowance(address, address) should be declared external:
- ERC20.allowance(address,address) (@openzeppelin/contracts/token/ERC20/ERC20.sol#70-72)

approve(address, uint256) should be declared external:

- ERC20.approve(address,uint256) (@openzeppelin/contracts/token/ERC20/ERC20.sol#81-84)

transferFrom(address,address,uint256) should be declared external:

- ERC20.transferFrom(address,address,uint256) (@openzeppelin/contracts/token/ERC20/ERC20.sol#98-102)

increaseAllowance(address, uint256) should be declared external:

- ERC20.increaseAllowance(address,uint256) (@openzeppelin/contracts/token/ERC20/ERC20.sol#116-119)

decreaseAllowance(address, uint256) should be declared external:

- ERC20.decreaseAllowance(address,uint256) (@openzeppelin/contracts/token/ERC20/ERC20.sol#135-138)



