

Smart Contract Security Audit V1

Zeus' Bounty Smart Contract

<https://zeusesbounty.io/>

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<https://saferico.com/>

business@saferico.com

https://t.me/SFI_ANN

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Background

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Project Information

- **Website:** <https://zeusesbounty.io/> / <https://zeusesbounty.com/>
- **Telegram group:** <https://t.me/zeusbounty>
- **Twitter:** <https://twitter.com/ZeusBounty>
- **Instagram:** <https://www.instagram.com/zeusbounty/>
- **YouTube:** <https://www.youtube.com/c/ZeusBounty/featured>
- **Facebook:** <https://www.facebook.com/ZeusBounty>
- **Platform:** Binance Smart Chain
- **Contract Address:** 0xfbd731bD592Bc05e2a509C525703b473d9f03975

Contracts address deployed to test net (BSC)

Zeuses Bounty Smart Contract on testnet.bsc (BSC Test Net)

<https://testnet.bscscan.com/address/0xfbd731bd592bc05e2a509c525703b473d9f03975>

Executive Summary

According to our assessment, the customer's solidity smart contract is **Secured**.because the issues fix in version 2.

Well Secured	
Secured	✓
Poor Secured	
Insecure	

Automated checks are with remix IDE. All issues were performed by the team, which included the analysis of code functionality, manual audit found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the audit overview section. The general overview is presented in the Project Information section and all issues found are located in the audit overview section.

Team found 0 critical, 0 high, 0 medium, 3 low, 0 very low-level issues and 2 notes in all solidity files of the contract

The files:

zeus.sol

File and Function Level Report

File in Scope:

Contract Name	SHA 256 hash	Contract Address
zeus.sol	87b4088fb4a9d04ff133228f66198f99366f7c147e043a7e3f999c303a3906e9	0xfbd731bD592Bc05e2a509C525703b473d9f03975

- Contract: ZeusesBounty
- Inherit: Ownable, ReentrancyGuard, ChainlinkClient
- Observation: All passed including security check
- Test Report: passed
- Score: passed
- Conclusion: passed

Function	Test Result	Type / Return Type	Score
stringToBytes32	✓	Read / public	Passed
owner	✓	Read / public	Passed
withdrawable	✓	Write / public	Passed
transferOwnership	✓	Write / public	Passed
register	✓	Write / payable	Passed
fulfillWithdrawable	✓	Write / public	Passed
deposit	✓	Write / payable	Passed

Issues Checking Status

No.	Issue Description	Checking Status
1	Compiler warnings.	Passed
2	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3	Possible delays in data delivery.	Passed
4	Oracle calls.	Passed
5	Front running.	Passed
6	Timestamp dependence.	Passed
7	Integer Overflow and Underflow.	Passed
8	DoS with Revert.	Passed
9	DoS with block gas limit.	Passed
10	Methods execution permissions.	Passed
11	Economy model. If application logic is based on an incorrect economic model, the application would not function correctly and participants would incur financial losses. This type of issue is most often found in bonus rewards systems, Staking and Farming contracts, Vault and Vesting contracts, etc.	Passed
12	The impact of the exchange rate on the logic.	Passed
13	Private user data leaks.	Passed
14	Malicious Event log.	Passed
15	Scoping and Declarations.	Passed
16	Uninitialized storage pointers.	Passed
17	Arithmetic accuracy.	Passed
18	Design Logic.	Passed

Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to tokens loss etc.
High	High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose
Low	Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution
Note	Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored.

Audit Findings

Critical:

No critical severity vulnerabilities were found.

High:

No High severity vulnerabilities were found

Medium:

No Medium severity vulnerabilities were found.

Low:

#Contract has many pragmas and the main Pragma version not fixed

Description

It is a good practice to lock the solidity version for a live deployment (use 0.8.0 instead of ^0.8.0). contracts should be deployed with the same compiler version and flags that they have been tested the most with. Locking the pragma helps ensure that contracts do not accidentally get deployed using, for example, the latest compiler which may have higher risks of undiscovered bugs. Contracts may also be deployed by others and the pragma indicates the compiler version intended by the original authors. and the contract has many libraries with many pragmas.

Remediation

Remove the ^ sign to lock the pragma version and make all libraries with same pragma.

Status **Closed**. Fixed in version 2.

#Missing receive ETH function

Description

The receive function is executed on a call to the contract with empty calldata. This is the function that is executed on plain Ether transfers (e.g. via .send() or .transfer()). If no such function exists, but a payable fallback function exists, the fallback function will be called on a plain Ether transfer. If neither a receive Ether nor a payable fallback function is present, the contract cannot receive Ether through regular transactions and throws an exception.

And the contract has only fallback function it will be better if we add the receive function.

Remediation

Add receive payable function in the contract.

Status: **Closed**. Fix in version 2.

#This declaration has the same name as another declaration

Description

In the smart contract there is 3 functions with same names with another declaration

```
function setSubnodeOwner(  
    bytes32 node,  
    bytes32 label,  
    address owner  
) external;  
  
function setResolver(bytes32 node, address resolver) external;  
  
function setOwner(bytes32 node, address owner) external;  
  
function setTTL(bytes32 node, uint64 ttl) external;
```

Remediation

Comment or delete unuse functions from the contracts.

Status: **Closed**. Fix in version 2.

Very Low:

No Very Low severity vulnerabilities were found.

Notes:

#Missing SPDX-License-Identifier:

Warning: SPDX license identifier not provided in source file. Before publishing, consider adding a comment containing "SPDX-License-Identifier: <SPDX-License>" to each source file. Use "SPDX-License-Identifier: UNLICENSED" for non-open-source code. Please see <https://spdx.org> for more information.

Remediation

Add License Identifier

// SPDX-License-Identifier: UNLICENSE

Status: **Closed**. Fix in version 2.

#Unnecessary use of SafeMath

Description

Solidity version 0.8 was released with SafeMath checks inbuilt, we can avoid using an explicit safe math library.

Remediation

Remove SafeMath Library to save gas fees.

Status: **closed**. Fix in version 2.

Automatic Testing

1- Check for security

87b4088fb4a9d04ff133228f66198f99366f7c147e043a7e3f999c303a3906e9

File: zeus.sol | Language: solidity | Size: 43857 bytes | Date: 2022-01-12T10:15:51.070Z

Critical	High	Medium	Low	Note
0	0	0	0	0



2- SOLIDITY STATIC ANALYSIS

SOLIDITY STATIC ANALYSIS

☒ Select all ☒ Autorun Run

Security

☒ Select Security

- ☒ Transaction origin:
'tx.origin' used
- ☒ Check-effects-interaction:
Potential reentrancy bugs
- ☒ Inline assembly:
Inline assembly used
- ☒ Block timestamp:
Can be influenced by miners
- ☒ Low level calls:
Should only be used by experienced devs
- ☒ Block hash:
Can be influenced by miners
- ☒ Selfdestruct:
Contracts using destructed contract can be broken

Gas & Economy

☒ Select Gas & Economy

- ☒ Gas costs:
Too high gas requirement of functions
- ☒ This on local calls:
Invocation of local functions via 'this'
- ☒ Delete dynamic array:
Use require/assert to ensure complete deletion
- ☒ For loop over dynamic array:
Iterations depend on dynamic array's size
- ☒ Ether transfer in loop:
Transferring Ether in a for/while/do-while loop

SOLIDITY STATIC ANALYSIS

ERC

☒ Select ERC

- ☒ ERC20:
'decimals' should be 'uint8'

Miscellaneous

☒ Select Miscellaneous

- ☒ Constant/View/Pure functions:
Potentially constant/view/pure functions
- ☒ Similar variable names:
Variable names are too similar
- ☒ No return:
Function with 'returns' not returning
- ☒ Guard conditions:
Ensure appropriate use of require/assert
- ☒ Result not used:
The result of an operation not used
- ☒ String length:
Bytes length != String length
- ☒ Delete from dynamic array:
'delete' leaves a gap in array
- ☒ Data truncated:
Division on int/uint values truncates the result

3- Inheritance graph

```
graph TD; ENSResolver --- PointerInterface; PointerInterface --- OperatorInterface; OperatorInterface --> OracleInterface; OperatorInterface --> ChainlinkRequestInterface; LinkTokenInterface --- ENSInterface; ENSInterface --- BufferChainlink; BufferChainlink --- CBORChainlink; CBORChainlink --- Chainlink; Chainlink --> ZeusesBounty; Chainlink --> ChainlinkClient; Chainlink --> Ownable; Chainlink --> ReentrancyGuard; ZeusesBounty --> Ownable; SafeMath --- Strings; Ownable --> Context;
```

The inheritance graph illustrates the relationships between various interfaces and contracts. At the top level, there are several interfaces: ENSResolver, PointerInterface, OperatorInterface, LinkTokenInterface, ENSInterface, BufferChainlink, CBORChainlink, Chainlink, ZeusesBounty, SafeMath, and Strings. Below these, the graph shows how these interfaces are implemented or inherited by other contracts. For example, OperatorInterface is inherited by OracleInterface and ChainlinkRequestInterface. Chainlink is inherited by ChainlinkClient, Ownable, and ReentrancyGuard. ZeusesBounty is inherited by Ownable. SafeMath is inherited by Strings. The graph also shows that Ownable is inherited by Context.

4- SOLIDITY UNIT TESTING

SOLIDITY UNIT TESTING



Test your smart contract in Solidity.

Select directory to load and generate test files.

Test directory:

CreateGenerateHow to use... Run Stop

☒ Select all

☒ tests/zeus_test.sol

Progress: 1 finished (of 1)

PASS testSuite (tests/zeus_test.sol)

✓ Before all



✓ Check success



✓ Check success2



✓ Check failure



✓ Check sender and value

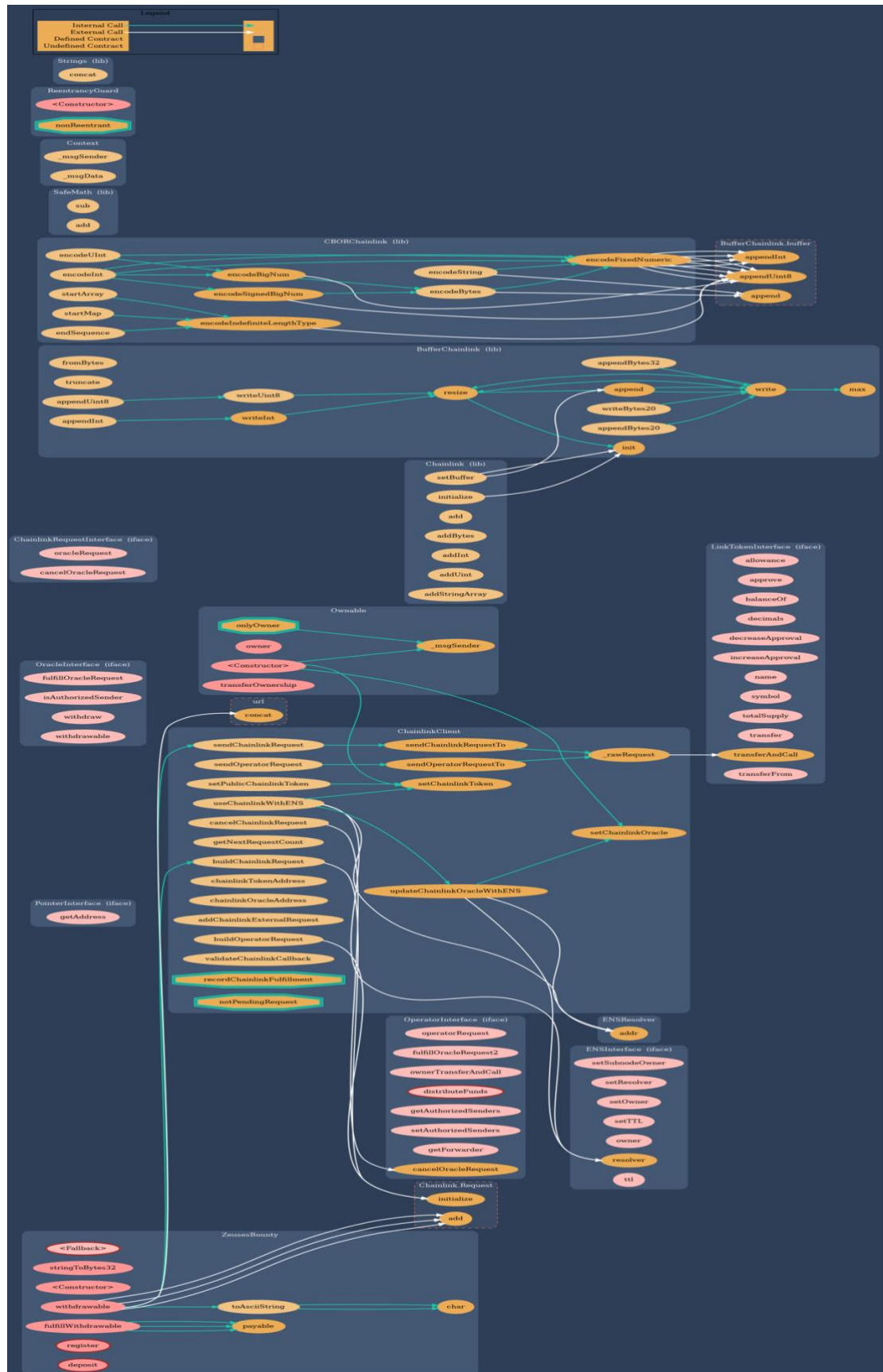


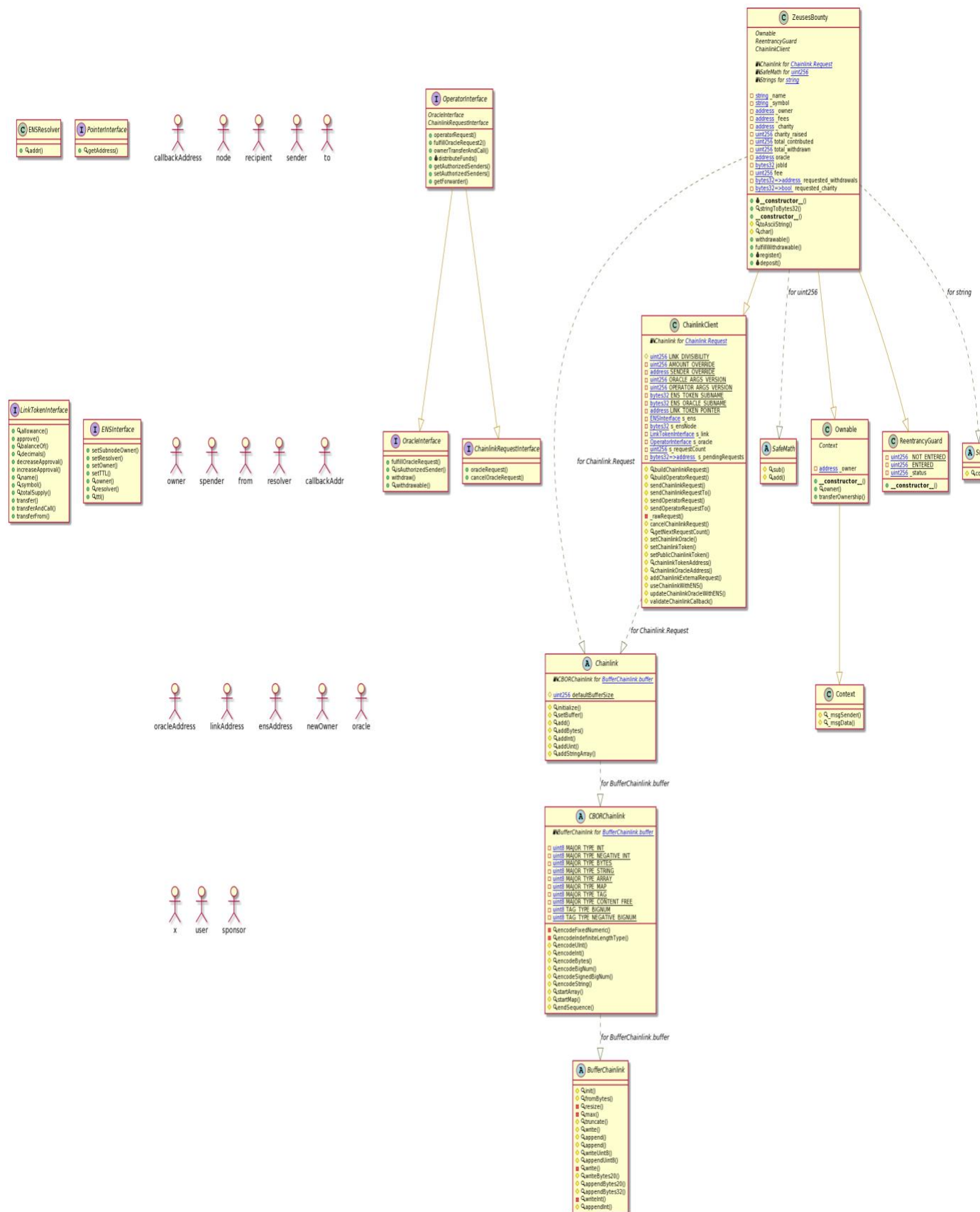
Result for tests/zeus_test.sol

Passing: 5

Total time: 0.43s

5- Call graph





Functions signature

```
40429946 =>
oracleRequest (address, uint256, bytes32, address, bytes4, uint256, uint256, bytes)
44955163 => write (buffer, uint256, bytes32, uint256)
50188301 => withdrawable ()
66188463 => decreaseApproval (address, uint256)
3b3b57de => addr (bytes32)
38cc4831 => getAddress ()
4ab0d190 => fulfillOracleRequest (bytes32, uint256, address, bytes4, uint256, bytes32)
fa00763a => isAuthorizedSender (address)
f3fef3a3 => withdraw (address, uint256)
6ee4d553 => cancelOracleRequest (bytes32, uint256, bytes4, uint256)
3c6d41b9 => operatorRequest (address, uint256, bytes32, bytes4, uint256, uint256, bytes)
6ae0bc76 => fulfillOracleRequest2 (bytes32, uint256, address, bytes4, uint256, bytes)
902fc370 => ownerTransferAndCall (address, uint256, bytes)
8fde83a9 => distributeFunds (address, uint256[])
2408afaa => getAuthorizedSenders ()
ee56997b => setAuthorizedSenders (address[])
a0042526 => getForwarder ()
dd62ed3e => allowance (address, address)
095ea7b3 => approve (address, uint256)
70a08231 => balanceOf (address)
313ce567 => decimals ()
d73dd623 => increaseApproval (address, uint256)
06fdde03 => name ()
95d89b41 => symbol ()
18160ddd => totalSupply ()
a9059cbb => transfer (address, uint256)
4000aea0 => transferAndCall (address, uint256, bytes)
23b872dd => transferFrom (address, address, uint256)
06ab5923 => setSubnodeOwner (bytes32, bytes32, address)
1896f70a => setResolver (bytes32, address)
5b0fc9c3 => setOwner (bytes32, address)
14ab9038 => setTTL (bytes32, uint64)
02571be3 => owner (bytes32)
0178b8bf => resolver (bytes32)
16a25cbd => ttl (bytes32)
b92f5e20 => init (buffer, uint256)
215b3e32 => fromBytes (bytes)
84993de3 => resize (buffer, uint256)
6d5433e6 => max (uint256, uint256)
0329aaf4 => truncate (buffer)
e1c2615c => write (buffer, uint256, bytes, uint256)
e5882e91 => append (buffer, bytes, uint256)
d69190b6 => append (buffer, bytes)
9ebc63c9 => writeUint8 (buffer, uint256, uint8)
aa813663 => appendUint8 (buffer, uint8)
b81b0225 => writeBytes20 (buffer, uint256, bytes20)
2249b392 => appendBytes20 (buffer, bytes20)
44f40653 => appendBytes32 (buffer, bytes32)
d6e21663 => writeInt (buffer, uint256, uint256, uint256)
854d9b30 => appendInt (buffer, uint256, uint256)
1e15446d => encodeFixedNumeric (BufferChainlink.buffer, uint8, uint64)
af53ef09 => encodeIndefiniteLengthType (BufferChainlink.buffer, uint8)
6ef13d84 => encodeUInt (BufferChainlink.buffer, uint256)
3803cb34 => encodeInt (BufferChainlink.buffer, int256)
2df9cccd => encodeBytes (BufferChainlink.buffer, bytes)
```

```
34a05063 => encodeBigNum(BufferChainlink.buffer,uint256)
9aeeba15 => encodeSignedBigNum(BufferChainlink.buffer,int256)
d994655b => encodeString(BufferChainlink.buffer,string)
e715127c => startArray(BufferChainlink.buffer)
161a73cf => startMap(BufferChainlink.buffer)
dc0a81c5 => endSequence(BufferChainlink.buffer)
914b2bce => initialize(Request,bytes32,address,bytes4)
973ab6e4 => setBuffer(Request,bytes)
03afcbe9 => add(Request,string,string)
6a2e9482 => addBytes(Request,string,bytes)
5bc4f3a3 => addInt(Request,string,int256)
ab6a2cb7 => addUint(Request,string,uint256)
c53370af => addStringArray(Request,string,string[])
56db6353 => buildChainlinkRequest(bytes32,address,bytes4)
76b919d2 => buildOperatorRequest(bytes32,bytes4)
a06a20f5 => sendChainlinkRequest(Chainlink.Request,uint256)
7918fe63 => sendChainlinkRequestTo(address,Chainlink.Request,uint256)
cff3487b => sendOperatorRequest(Chainlink.Request,uint256)
2f08c649 => sendOperatorRequestTo(address,Chainlink.Request,uint256)
af64137f => _rawRequest(address,uint256,uint256,bytes)
0e088c98 => cancelChainlinkRequest(bytes32,uint256,bytes4,uint256)
9b70126d => getNextRequestCount()
7a9b0412 => setChainlinkOracle(address)
31d0e3f5 => setChainlinkToken(address)
987c4311 => setPublicChainlinkToken()
7020b511 => chainlinkTokenAddress()
fe21f306 => chainlinkOracleAddress()
8387aa39 => addChainlinkExternalRequest(address,bytes32)
a8b65043 => useChainlinkWithENS(address,bytes32)
4d6f49b3 => updateChainlinkOracleWithENS()
e5f982a4 => validateChainlinkCallback(bytes32)
b67d77c5 => sub(uint256,uint256)
771602f7 => add(uint256,uint256)
119df25f => _msgSender()
8b49d47e => _msgData()
8da5cb5b => owner()
f2fde38b => transferOwnership(address)
89c19ddb => concat(string,string)
cfb51928 => stringToBytes32(string)
2c6e7598 => toAsciiString(address)
69f9ad2f => char(bytes1)
89b2521c => withdrawable(address,bool)
8cf2dd80 => fulfillWithdrawable(bytes32,uint256,uint256)
e8c1b308 => register(address,address,uint256,string,string)
47e7ef24 => deposit(address,uint256)
```


Automatic general report

Files Description Table

File Name	SHA-1 Hash
/Users/macbook/Desktop/smart contracts/zeus.sol	1654916514c5d9010c528d83a511ba067c8bd03b

Contracts Description Table

Contract	Type	Bases	
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
L	**Function Name**	**Visibility**	**Mutability**
Modifiers			
ENSResolver	Implementation		
L addr	Public !	NO!	
PointerInterface	Interface		
L getAddress	External !	NO!	
OracleInterface	Interface		
L fulfillOracleRequest	External !	NO!	
L isAuthorizedSender	External !	NO!	
L withdraw	External !	NO!	
L withdrawable	External !	NO!	
ChainlinkRequestInterface	Interface		
L oracleRequest	External !	NO!	
L cancelOracleRequest	External !	NO!	
OperatorInterface	Interface	OracleInterface, ChainlinkRequestInterface	
L operatorRequest	External !	NO!	
L fulfillOracleRequest2	External !	NO!	
L ownerTransferAndCall	External !	NO!	
L distributeFunds	External !	NO!	
L getAuthorizedSenders	External !	NO!	
L setAuthorizedSenders	External !	NO!	
L getForwarder	External !	NO!	
LinkTokenInterface	Interface		
L allowance	External !	NO!	
L approve	External !	NO!	
L balanceOf	External !	NO!	
L decimals	External !	NO!	
L decreaseApproval	External !	NO!	
L increaseApproval	External !	NO!	
L name	External !	NO!	
L symbol	External !	NO!	
L totalSupply	External !	NO!	
L transfer	External !	NO!	
L transferAndCall	External !	NO!	
L transferFrom	External !	NO!	

```

| | | | |
| **ENSInterface** | Interface | | |
| L | setSubnodeOwner | External ! | NO |
| L | setResolver | External ! | NO |
| L | setOwner | External ! | NO |
| L | setTTL | External ! | NO |
| L | owner | External ! | NO |
| L | resolver | External ! | NO |
| L | ttl | External ! | NO |
| | | |
| **BufferChainlink** | Library | | |
| L | init | Internal |
| L | fromBytes | Internal |
| L | resize | Private |
| L | max | Private |
| L | truncate | Internal |
| L | write | Internal |
| L | append | Internal |
| L | append | Internal |
| L | writeUInt8 | Internal |
| L | appendUInt8 | Internal |
| L | write | Private |
| L | writeBytes20 | Internal |
| L | appendBytes20 | Internal |
| L | appendBytes32 | Internal |
| L | writeInt | Private |
| L | appendInt | Internal |
| | | |
| **CBORChainlink** | Library | | |
| L | encodeFixedNumeric | Private |
| L | encodeIndefiniteLengthType | Private |
| L | encodeUInt | Internal |
| L | encodeInt | Internal |
| L | encodeBytes | Internal |
| L | encodeBigNum | Internal |
| L | encodeSignedBigNum | Internal |
| L | encodeString | Internal |
| L | startArray | Internal |
| L | startMap | Internal |
| L | endSequence | Internal |
| | | |
| **Chainlink** | Library | | |
| L | initialize | Internal |
| L | setBuffer | Internal |
| L | add | Internal |
| L | addBytes | Internal |
| L | addInt | Internal |
| L | addUInt | Internal |
| L | addStringArray | Internal |
| | | |
| **ChainlinkClient** | Implementation | | |
| L | buildChainlinkRequest | Internal |
| L | buildOperatorRequest | Internal |
| L | sendChainlinkRequest | Internal |
| L | sendChainlinkRequestTo | Internal |
| L | sendOperatorRequest | Internal |
| L | sendOperatorRequestTo | Internal |
| L | _rawRequest | Private |

```

```

| L | cancelChainlinkRequest | Internal 🔒 | 🔒 | | |
| L | getNextRequestCount | Internal 🔒 | | | |
| L | setChainlinkOracle | Internal 🔒 | 🔒 | | |
| L | setChainlinkToken | Internal 🔒 | 🔒 | | |
| L | setPublicChainlinkToken | Internal 🔒 | 🔒 | | |
| L | chainlinkTokenAddress | Internal 🔒 | | | |
| L | chainlinkOracleAddress | Internal 🔒 | | | |
| L | addChainlinkExternalRequest | Internal 🔒 | 🔒 | notPendingRequest |
| L | useChainlinkWithENS | Internal 🔒 | 🔒 | | |
| L | updateChainlinkOracleWithENS | Internal 🔒 | 🔒 | | |
| L | validateChainlinkCallback | Internal 🔒 | 🔒 | recordChainlinkFulfillment |
| | | | |
| **SafeMath** | Library | | | |
| L | sub | Internal 🔒 | | | |
| L | add | Internal 🔒 | | | |
| | | | |
| **Context** | Implementation | | | |
| L | _msgSender | Internal 🔒 | | | |
| L | _msgData | Internal 🔒 | | | |
| | | | |
| **Ownable** | Implementation | Context | | |
| L | <Constructor> | Public ! | 🔒 | NO! |
| L | owner | Public ! | NO! | |
| L | transferOwnership | Public ! | 🔒 | onlyOwner |
| | | | |
| **ReentrancyGuard** | Implementation | | | |
| L | <Constructor> | Public ! | 🔒 | NO! |
| | | | |
| **Strings** | Library | | | |
| L | concat | Internal 🔒 | | | |
| | | | |
| **ZeusesBounty** | Implementation | Ownable, ReentrancyGuard, ChainlinkClient | | |
| L | <Fallback> | External ! | 💰 | NO! |
| L | stringToBytes32 | Public ! | 🔒 | NO! |
| L | <Constructor> | Public ! | 🔒 | NO! |
| L | toAsciiString | Internal 🔒 | | | |
| L | char | Internal 🔒 | | | |
| L | withdrawable | Public ! | 🔒 | NO! |
| L | fulfillWithdrawable | Public ! | 🔒 | recordChainlinkFulfillment |
| L | register | Public ! | 💰 | NO! |
| L | deposit | Public ! | 💰 | NO! |

```

Legend

Symbol	Meaning
🔒	Function can modify state
💰	Function is payable

Conclusion

The contracts are written systematically. Team found no critical issues. So, it is good to go for production.

Since possible test cases can be unlimited and developer level documentation (code flow diagram with function level description) not provided, for such an extensive smart contract protocol, we provide no such guarantee of future outcomes. We have used all the latest static tools and manual observations to cover maximum possible test cases to scan Everything.

Security state of the reviewed contract is “secured”.

- ✓ No mint function.
- ✓ No volatile code.
- ✓ Not many high severity issues were found.

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against the team on the basis of what it says or doesn't say, or how team produced it, and it is important for you to conduct your own independent investigations before making any decisions. team go into more detail on this in the below disclaimer below – please make sure to read it in full.

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