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*Bring trust into your projects*

**Blockchain Security | Smart Contract Audits | KYC  
Development | Marketing**

MADE IN GERMANY

# **BELUGA Arbitrum Core**

# **Audit**

**Security Assessment**  
**02. June, 2023**

**For**



**SolidProof\_io**



**@solidproof\_io**

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Version	Date	Description
1.0	26. May 2023	<ul style="list-style-type: none"><li>• Layout project</li><li>• Automated- /Manual-Security Testing</li><li>• Summary</li></ul>
1.1	02. June 2023	<ul style="list-style-type: none"><li>• Reaudit</li></ul>

## **Network**

Arbitrum One

## **Website**

<https://beluga.so>

## **Twitter**

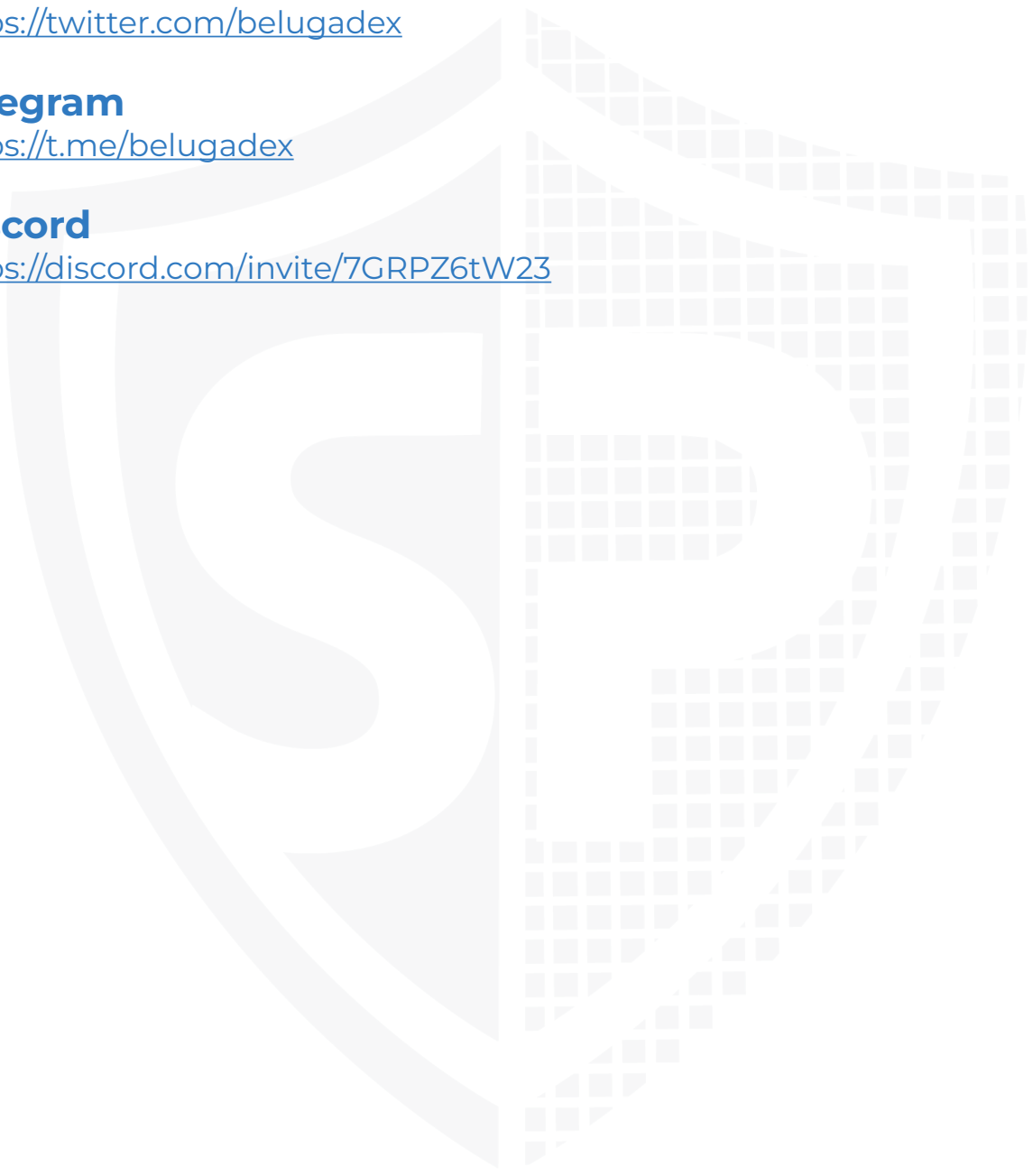
<https://twitter.com/belugadex>

## **Telegram**

<https://t.me/belugadex>

## **Discord**

<https://discord.com/invite/7GRPZ6tW23>



## Description

As the DeFi ecosystem grows, we realise that there is a need for a simple swap product with a great user experience that aligns with Beluga's vision to simplify DeFi.

## Project Engagement

During the 23 of May 2023, **BELUGA Team** engaged Solidproof.io to audit smart contracts they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

## Logo



## Contract Link

**v1.0**

**Proxy -**

[https://arbiscan.io/address/  
0x7668bcbf650ae69297e411d2a8ec91e07dd91c0b#code](https://arbiscan.io/address/0x7668bcbf650ae69297e411d2a8ec91e07dd91c0b#code)

[https://arbiscan.io/address/  
0x48945a091108bbbd54829b632b1df94bb50f81d7#code](https://arbiscan.io/address/0x48945a091108bbbd54829b632b1df94bb50f81d7#code)

[https://arbiscan.io/address/  
0x7fbdB84D5966c1C325D8CB2E01593D74c9A41Cd](https://arbiscan.io/address/0x7fbdB84D5966c1C325D8CB2E01593D74c9A41Cd)

[https://arbiscan.io/address/  
0x15A024061c151045ba483e9243291Dee6Ee5fD8A](https://arbiscan.io/address/0x15A024061c151045ba483e9243291Dee6Ee5fD8A)

[https://arbiscan.io/address/  
0x6621E58c692239874515a54Cc1D374a4101e884C](https://arbiscan.io/address/0x6621E58c692239874515a54Cc1D374a4101e884C)

**Implementations -**

[https://arbiscan.io/address/  
0xf928d22c0f807da938ba7403a936ed31749de8d#code](https://arbiscan.io/address/0xf928d22c0f807da938ba7403a936ed31749de8d#code)

[https://arbiscan.io/address/  
0x6a02c9666b2efea6522e9249b36a168ad56d0653#code](https://arbiscan.io/address/0x6a02c9666b2efea6522e9249b36a168ad56d0653#code)  
[https://arbiscan.io/address/  
0xea59051f3c517ec67399065f7bd79471ac323040#code](https://arbiscan.io/address/0xea59051f3c517ec67399065f7bd79471ac323040#code)  
[https://arbiscan.io/address/  
0x4316ec4d15a562e381359d6144c35c675951c120#code](https://arbiscan.io/address/0x4316ec4d15a562e381359d6144c35c675951c120#code)

## **v1.1**

### **Implementation -**

**MasterBelugaV3** - [https://arbiscan.io/address/  
0x2C4CAE3Cb50912AeEB6eE2812Ec6d0AACA32cDaF](https://arbiscan.io/address/0x2C4CAE3Cb50912AeEB6eE2812Ec6d0AACA32cDaF)

**VeBela** - [https://arbiscan.io/address/  
0xc2cCD02E9E1F74C0860bcf375Fea94990b91A32a](https://arbiscan.io/address/0xc2cCD02E9E1F74C0860bcf375Fea94990b91A32a)

# Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level	Value	Vulnerability	Risk (Required Action)
<b>Critical</b>	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
<b>High</b>	7 – 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon as possible.
<b>Medium</b>	4 – 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
<b>Low</b>	2 – 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
<b>Informational</b>	0 – 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

# Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as there were discovered.

## Methodology

The auditing process follows a routine series of steps:

1. Code review that includes the following:
  - i) Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
  - ii) Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
  - iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.
2. Testing and automated analysis that includes the following:
  - i) Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
  - ii) Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.
3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.



## Used Code from other Frameworks/Smart Contracts (direct imports)

Imported packages:

Dependency / Import Path	Count
@openzeppelin/contracts-upgradeable/access/OwnableUpgradeable.sol	1
@openzeppelin/contracts-upgradeable/proxy/utils/Initializable.sol	1
@openzeppelin/contracts-upgradeable/security/PausableUpgradeable.sol	1
@openzeppelin/contracts-upgradeable/security/ReentrancyGuardUpgradeable.sol	1
@openzeppelin/contracts-upgradeable/token/ERC20/utils/SafeERC20Upgradeable.sol	1
@openzeppelin/contracts/token/ERC20/ERC20.sol	1
@openzeppelin/contracts/token/ERC20/IERC20.sol	1
@openzeppelin/contracts/token/ERC20/utils/SafeERC20.sol	3
@openzeppelin/contracts/token/ERC721/IERC721Receiver.sol	1
@openzeppelin/contracts/utils/Address.sol	1
@openzeppelin/contracts/utils/structs/EnumerableSet.sol	1

## Tested Contract Files

This audit covered the following files listed below with a SHA-1 Hash.

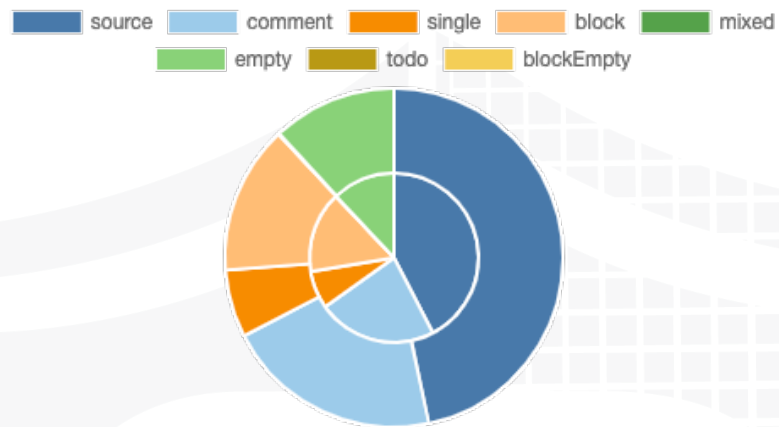
*A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.*

### v1.0

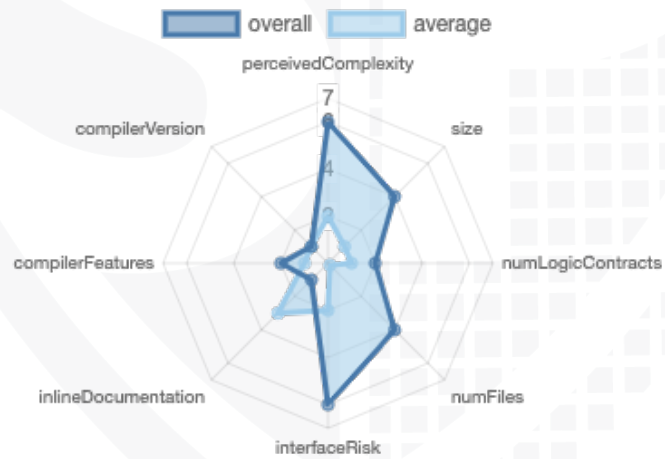
File Name	SHA-1 Hash
contracts/VeBela.sol	9c814ce30c83438a876129553ae5a0b219e58d10
contracts/ MasterBelugaV3.sol	48e4f22e86c504efd7376cd347a80a006d64bfc7
contracts/ PoolProxyV2.sol	3791ed0cfed2f4021e96162a43de93715a270270
contracts/Pool.sol	efd33a8052b94f07ba3e96bdca7c4fcff2b6d0c1

# Metrics

## Source Lines v1.0



## Risk Level v1.0





# Capabilities

## Components

 Contracts	 Libraries	 Interfaces	 Abstract
4	0	4	0

### Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.





 Public	 Payable
95	6







External	Internal	Private	Pure	View
79	86	17	2	40

### StateVariables

Total	 Public
36	23

### Capabilities

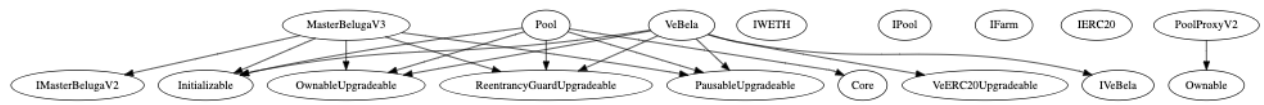
Solidity Versions observed	 Experimental Features	 Can Receive Funds	 Uses Assembly	 Has Destroyable Contracts
0.8.9 ^0.8.0		yes		

 Transfers ETH	 Low-Level Calls	 DelegateCall	 Uses Hash Functions	 ECTRecover	 New/Create/Create2
yes					yes → NewContract:WETHelper

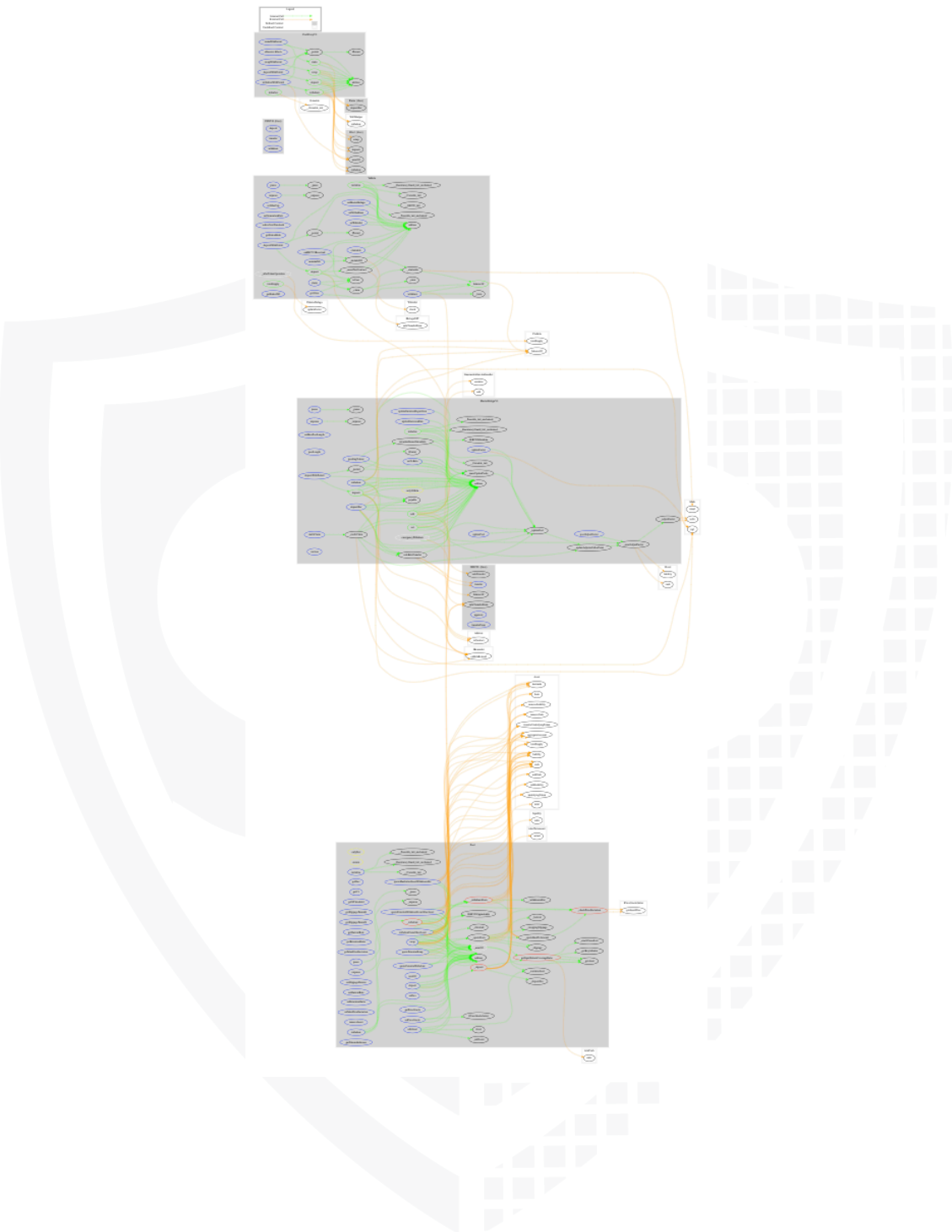
 TryCatch	 Unchecked

# Inheritance Graph

## v1.0



CallGraph  
v1.0



## Scope of Work/Verify Claims

The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .sol).

We will verify the following claims:

1. Are the contracts upgradeable
2. Overall checkup (Smart Contract Security)



## Are the contracts upgradeable

Name	
Is contract an upgradeable?	Yes

Comments:

### v1.0

- Owner can deploy a new version of the contracts which can change any limit and give owner new privileges
  - Be aware of this and do your own research for the contract which is the contract pointing to





### Legend

Attribute	Symbol
Verified / Checked	
Partly Verified	
Unverified / Not checked	
Not available	

# Modifiers and public functions v1.1

## MasterBelugaV3

- ⚡ **pause**
- Ⓜ onlyOwner
- ⚡ **unpause**
- Ⓜ onlyOwner
- ⚡ **setMaxPoolLength**
- Ⓜ onlyOwner
- ⚡ **add**
- Ⓜ onlyOwner
- ⚡ **set**
- Ⓜ onlyOwner
- ⚡ **massUpdatePools**
- ⚡ **updatePool**
- ⚡ **depositFor**
- Ⓜ nonReentrant
- Ⓜ whenNotPaused
- ⚡ **deposit**
- Ⓜ nonReentrant
- Ⓜ whenNotPaused
- ⚡ **depositWithPermit**
- ⚡ **multiClaim**
- Ⓜ nonReentrant
- Ⓜ whenNotPaused
- ⚡ **withdraw**
- Ⓜ nonReentrant
- Ⓜ whenNotPaused
- ⚡ **updateEmissionRate**
- Ⓜ onlyOwner
- ⚡ **updateEmissionRepartition**
- Ⓜ onlyOwner
- ⚡ **setVeBela**
- Ⓜ onlyOwner
- ⚡ **updateFactor**
- Ⓜ onlyVeBela

## VeBela

- ⚡ **pause**
- Ⓜ onlyOwner
- ⚡ **unpause**
- Ⓜ onlyOwner
- ⚡ **setMasterBeluga**
- ⚡ **setNftAddress**
- Ⓜ onlyOwner
- ⚡ **setWhitelist**
- Ⓜ onlyOwner
- ⚡ **setMaxCap**
- Ⓜ onlyOwner
- ⚡ **setGenerationRate**
- Ⓜ onlyOwner
- ⚡ **setInvVoteThreshold**
- Ⓜ onlyOwner
- ⚡ **deposit**
- Ⓜ nonReentrant
- Ⓜ whenNotPaused
- ⚡ **depositWithPermit**
- ⚡ **claim**
- Ⓜ nonReentrant
- Ⓜ whenNotPaused
- ⚡ **withdraw**
- Ⓜ nonReentrant
- Ⓜ whenNotPaused
- ⚡ **onERC721Received**
- Ⓜ nonReentrant
- Ⓜ whenNotPaused
- ⚡ **unstakeNft**
- Ⓜ nonReentrant
- Ⓜ whenNotPaused

## Pool

- ⚡ **pause**
- Ⓜ onlyDev
- ⚡ **unpause**
- Ⓜ onlyDev
- ⚡ **setDev**
- Ⓜ onlyOwner
- ⚡ **setSlippageParams**
- Ⓜ onlyOwner
- ⚡ **setHaircutRate**
- Ⓜ onlyOwner
- ⚡ **setRetentionRatio**
- Ⓜ onlyOwner
- ⚡ **setMaxPriceDeviation**
- Ⓜ onlyOwner
- ⚡ **setPriceOracle**
- Ⓜ onlyOwner
- ⚡ **removeAsset**
- Ⓜ onlyOwner
- ⚡ **addAsset**
- Ⓜ onlyOwner
- ⚡ **deposit**
- Ⓜ ensure
- Ⓜ nonReentrant
- ⚡ **withdraw**
- Ⓜ ensure
- Ⓜ nonReentrant
- Ⓜ whenNotPaused
- ⚡ **withdrawFromOtherAsset**
- Ⓜ ensure
- Ⓜ nonReentrant
- Ⓜ whenNotPaused
- ⚡ **swap**
- Ⓜ ensure
- Ⓜ nonReentrant
- Ⓜ whenNotPaused

Note: Imported contracts from official packages were not listed down below

## Ownership/Authority Privileges

### ❖ MasterBelugaV3.sol -

- The owner can pause/unpause the deposits
- Set max pool length
- Add a new Lp to the pool
- Update the pool's allocation points
- Update the Emission rate to any arbitrary value
- Set VeBela address, and according to the code, this address can either be an EOA or a Contract.
- The Veela address can set the user factor for any user address.

### ❖ VeBela.sol -

- The owner can pause/unpause the deposits, claims, unstake
- Set master Beluga, and NFT Address
- Whitelist addresses
- Set/Change the max cap, max votes threshold, and generation rate to any arbitrary value, as there is no constant upper limit

### ❖ Pool.sol -

- The dev address can pause/unpause the deposits and withdraws
- The owner can set Dev address
- Set Slippage Parameters to any arbitrary value
- Set Pool's haircut Rate and Retention Ratio
- Set max price Deviation
- Set price Oracle address
- Add and Remove assets from the pool

**Please check if an OnlyOwner or similar restrictive modifier has been forgotten.**

## Source Units in Scope

### v1.0

File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score
contracts/VeBela.sol	1	=====	409	398	204	125	166
contracts/MasterBelugaV3.sol	1	=====	734	670	421	171	301
contracts/PoolProxyV2.sol	1	4	193	117	95	1	156
contracts/Pool.sol	1	=====	952	874	424	333	348
<b>Totals</b>	<b>4</b>	<b>4</b>	<b>2288</b>	<b>2059</b>	<b>1144</b>	<b>630</b>	<b>971</b>

### Legend

Attribute	Description
Lines	total lines of the source unit
nLines	normalised lines of the source unit (e.g. normalises functions spanning multiple lines)
nSLOC	normalised source lines of code (only source-code lines; no comments, no blank lines)
Comment Lines	lines containing single or block comments
Complexity Score	a custom complexity score derived from code statements that are known to introduce code complexity (branches, loops, calls, external interfaces, ...)

# Audit Results

## Critical issues

**No critical issues**

## High issues

**No high issues**

## Medium issues

**Medium Issues Fixed**

Issue	File	Type	Line	Description	Status
#1	MasterBelugaV3.sol	Owner can disable withdrawals	—	The owner can pause withdrawals and claims which is not recommended as it may result in the lock of user funds, and they will not be able to withdraw.	<b>Fixed</b>
#2	VeBela.sol	Owner can disable withdrawals	—	The owner can pause withdrawals and claims which is not recommended as it may result in the lock of user funds, and they will not be able to withdraw.	<b>Fixed</b>

## Low issues

Issue	File	Type	Line	Description	Status
#1	MasterBelugaV3	Missing Events Arithmetic	692	Emit an event for critical parameter changes	<b>Open</b>
#2	Pool.sol	Missing Events Arithmetic	368	Emit an event for critical parameter changes	<b>Open</b>
#3	Pool.sol	Divide by zero	285, 763	If the retention ratio is $10^{**18}$ then it will be divided by zero which is not allowed	<b>Open</b>
#4	Pool.sol	Restrict Dead Address	304, 442	Check that the DEAD address is restricted to be set	<b>Open</b>

#5	Pool.sol	Weak Implementation	253	The x must not be below xThreshold, and the c1 should not be smaller than x other wise, the funciton call will be reverted.	Open
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## Informational issues

Issue	File	Type	Line	Description	Status
#1	VeBel a.sol	Missing Range	164	We recommend to implement a range here because if the maxCap is nearly the max then the “getVotes” function will be locked.	Open

## Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information <https://docs.soliditylang.org/en/latest/natspec-format.html>) for your contracts to provide rich documentation for functions, return variables and more. This helps investors to make clear what those variables, functions etc. do.

### 02. June 2023:

- There is still an owner (Owner still has not renounced ownership)
- In the pool contract, there should be a minimum value for price deviation because the function on line 394 will never pass if the max deviation is set to zero.
- Unit tests with 95% code coverage were not provided to SolidProof, so we cannot ensure complete functional correctness of the code's logic.
- We recommend **BELUGA** team conduct unit and fuzz tests thoroughly to rule out the possibilities of unwanted logical and calculation errors.
- Read the whole report and modifiers section for more information

## SWC Attacks

ID	Title	Relationships	Status
<a href="#">SW C-1 36</a>	Unencrypted Private Data On-Chain	<a href="#">CWE-767: Access to Critical Private Variable via Public Method</a>	PASSED
<a href="#">SW C-1 35</a>	Code With No Effects	<a href="#">CWE-1164: Irrelevant Code</a>	PASSED
<a href="#">SW C-1 34</a>	Message call with hardcoded gas amount	<a href="#">CWE-655: Improper Initialization</a>	PASSED
<a href="#">SW C-1 33</a>	Hash Collisions With Multiple Variable Length Arguments	<a href="#">CWE-294: Authentication Bypass by Capture-replay</a>	PASSED
<a href="#">SW C-1 32</a>	Unexpected Ether balance	<a href="#">CWE-667: Improper Locking</a>	PASSED
<a href="#">SW C-1 31</a>	Presence of unused variables	<a href="#">CWE-1164: Irrelevant Code</a>	PASSED
<a href="#">SW C-1 30</a>	Right-To-Left-Override control character (U+202E)	<a href="#">CWE-451: User Interface (UI) Misrepresentation of Critical Information</a>	PASSED
<a href="#">SW C-1 29</a>	Typographical Error	<a href="#">CWE-480: Use of Incorrect Operator</a>	PASSED
<a href="#">SW C-1 28</a>	DoS With Block Gas Limit	<a href="#">CWE-400: Uncontrolled Resource Consumption</a>	PASSED

<a href="#">SW C-1 27</a>	Arbitrary Jump with Function Type Variable	<a href="#">CWE-695: Use of Low-Level Functionality</a>	<b>PASSED</b>
<a href="#">SW C-1 25</a>	Incorrect Inheritance Order	<a href="#">CWE-696: Incorrect Behavior Order</a>	<b>PASSED</b>
<a href="#">SW C-1 24</a>	Write to Arbitrary Storage Location	<a href="#">CWE-123: Write-what-where Condition</a>	<b>PASSED</b>
<a href="#">SW C-1 23</a>	Requirement Violation	<a href="#">CWE-573: Improper Following of Specification by Caller</a>	<b>PASSED</b>
<a href="#">SW C-1 22</a>	Lack of Proper Signature Verification	<a href="#">CWE-345: Insufficient Verification of Data Authenticity</a>	<b>PASSED</b>
<a href="#">SW C-1 21</a>	Missing Protection against Signature Replay Attacks	<a href="#">CWE-347: Improper Verification of Cryptographic Signature</a>	<b>PASSED</b>
<a href="#">SW C-1 20</a>	Weak Sources of Randomness from Chain Attributes	<a href="#">CWE-330: Use of Insufficiently Random Values</a>	<b>PASSED</b>
<a href="#">SW C-11 9</a>	Shadowing State Variables	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	<b>PASSED</b>
<a href="#">SW C-11 8</a>	Incorrect Constructor Name	<a href="#">CWE-665: Improper Initialization</a>	<b>PASSED</b>
<a href="#">SW C-11 7</a>	Signature Malleability	<a href="#">CWE-347: Improper Verification of Cryptographic Signature</a>	<b>PASSED</b>



<a href="#">SW C-11 6</a>	Timestamp Dependence	<a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>	<b>PASSED</b>
<a href="#">SW C-11 5</a>	Authorization through tx.origin	<a href="#">CWE-477: Use of Obsolete Function</a>	<b>PASSED</b>
<a href="#">SW C-11 4</a>	Transaction Order Dependence	<a href="#">CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')</a>	<b>PASSED</b>
<a href="#">SW C-11 3</a>	DoS with Failed Call	<a href="#">CWE-703: Improper Check or Handling of Exceptional Conditions</a>	<b>PASSED</b>
<a href="#">SW C-11 2</a>	Delegatecall to Untrusted Callee	<a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>	<b>PASSED</b>
<a href="#">SW C-11 1</a>	Use of Deprecated Solidity Functions	<a href="#">CWE-477: Use of Obsolete Function</a>	<b>PASSED</b>
<a href="#">SW C-11 0</a>	Assert Violation	<a href="#">CWE-670: Always-Incorrect Control Flow Implementation</a>	<b>PASSED</b>
<a href="#">SW C-1 09</a>	Uninitialized Storage Pointer	<a href="#">CWE-824: Access of Uninitialized Pointer</a>	<b>PASSED</b>
<a href="#">SW C-1 08</a>	State Variable Default Visibility	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	<b>PASSED</b>
<a href="#">SW C-1 07</a>	Reentrancy	<a href="#">CWE-841: Improper Enforcement of Behavioral Workflow</a>	<b>PASSED</b>
<a href="#">SW C-1 06</a>	Unprotected SELFDESTRUCT Instruction	<a href="#">CWE-284: Improper Access Control</a>	<b>PASSED</b>

<a href="#">SW</a> <a href="#">C-1</a> <a href="#">05</a>	Unprotected Ether Withdrawal	<a href="#">CWE-284: Improper Access Control</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">04</a>	Unchecked Call Return Value	<a href="#">CWE-252: Unchecked Return Value</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">03</a>	Floating Pragma	<a href="#">CWE-664: Improper Control of a Resource Through its Lifetime</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">02</a>	Outdated Compiler Version	<a href="#">CWE-937: Using Components with Known Vulnerabilities</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">01</a>	Integer Overflow and Underflow	<a href="#">CWE-682: Incorrect Calculation</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">00</a>	Function Default Visibility	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	<b>PASSED</b>

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