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**Blockchain Security | Smart Contract Audits | KYC
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MADE IN GERMANY

Prisma DeFi Audit

**Security Assessment
05. June, 2023**

For



SolidProof_io



@solidproof_io

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Disclaimer

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Version	Date	Description
1.0	13. May 2023	<ul style="list-style-type: none">• Layout project• Automated- /Manual-Security Testing• Summary
1.1	15. May 2023	<ul style="list-style-type: none">• Reaudit
1.2	05. June 2023	<ul style="list-style-type: none">• Mainnet addresses have been added

Network

Binance Smart Chain (BEP20)

Website

<https://prisma.fund/>

Twitter

https://twitter.com/Prisma_DeFi

Github

<https://github.com/PrismaDeFi/prisma-v1>

Discord

<https://discord.gg/xhhknEUgXb>

Youtube

<https://www.youtube.com/@PrismaFinance>

Description

Prisma Finance is making massive strides to bring real yield to the crypto space. We are doing this with our Investment Trading Fund or ITF. Our ITF is how we diversify farming strategies such as Liquidity Farming, Staking, Lending, Bot Trading and Dollar Cost Average. We then convert those rewards earned into Stablecoins and pay those out to the holders without them having to stake or do anything more than just hold Prisma.

All of the vaults in our system are optional and do not have any lock up periods as we want to keep things simple and flexible for the holders. Our primary goal is to make as much of a user friendly experience as we can while taking the burden away from the holder. Please feel free to read our [white paper](#) to find out more!

Project Engagement

During the 10th of May 2023, **Prisma DeFi Team** engaged Solidproof.io to audit smart contracts that 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

- Github
 - <https://github.com/PrismaDeFi/prisma-v1/tree/main/contracts>
 - Commit: <https://github.com/PrismaDeFi/prisma-v1/commit/a3c8ae381460ddf3fb13bc1d514eacafb28572f1>

v1.1

- Github
 - <https://github.com/PrismaDeFi/prisma-v1/tree/main/contracts>
 - Commit: [48b3c7e](#)

v1.2

- PrismaToken
 - Proxy
 - <https://bscscan.com/address/0x4bE042c0C69D809B8D739369515A1Ee7d4DFFBc7#code>
 - Implementation
 - <https://bscscan.com/address/0x4805576B740794AdA81B947832cDad0bdb535f8A#code>
- PrismaDividend
 - Proxy
 - <https://bscscan.com/address/0x9315089B070cC058Bdd3c3Be52ee5FA0b8c64724#code>
 - Implementation
 - <https://bscscan.com/address/0xf0ca5ea2479b1c302b99dfe5d5a2866936b1ec96#code>

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)
Critical	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.
High	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.
Medium	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.
Low	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.
Informational	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	2
@openzeppelin/contracts-upgradeable/token/ERC20/ERC20Upgradeable.sol	2
@openzeppelin/contracts/access/Ownable.sol	1
@openzeppelin/contracts/interfaces/IERC20.sol	1
@uniswap/v2-core/contracts/interfaces/IUniswapV2Factory.sol	1
@uniswap/v2-core/contracts/interfaces/IUniswapV2Pair.sol	1
@uniswap/v2-periphery/contracts/interfaces/IUniswapV2Router02.sol	2

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

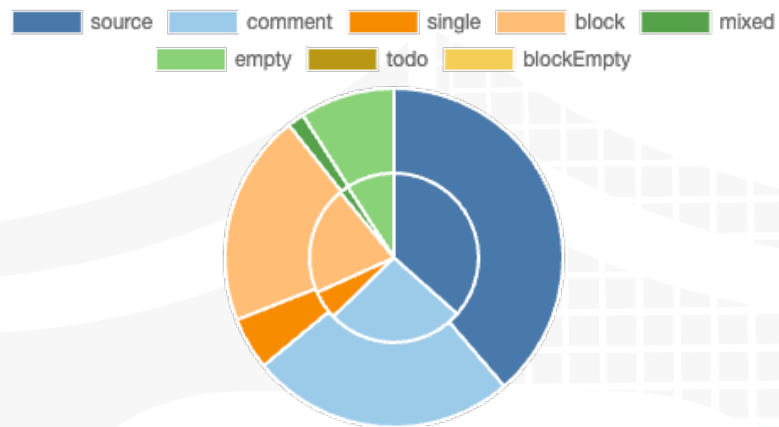
File Name	SHA-1 Hash
contracts/PrismaToken.sol	b377ff196bee37b9866a4a3f47b050ed112be881
contracts/PrismaDividendTracker.sol	07c35c1b2f00480fb3fa489cf8f579af31a57ce5
contracts/IPrismaToken.sol	e5cb7d829c0e385007489f2a8e19b20f30877af7
contracts/PrismaCharity.sol	e897cf6cbf857340e50c7def0791380cc97b15e3
contracts/IPrismaDividendTracker.sol	07c1e625a73adb4a06725f40f698dbf08dd13b54
contracts/IterableMapping.sol	94b30f69ffe82ec32462ad38c4c2c98ba584121b

v1.1

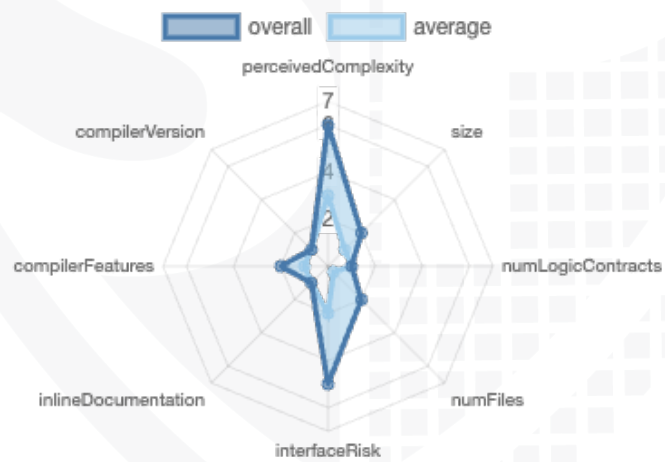
File Name	SHA-1 Hash
contracts/PrismaToken.sol	851a0e9d8a38fb6afd354be2aa32d254446c4067
contracts/PrismaDividendTracker.sol	505dc84554977fefa643bb7ccca888ba3c05bce
contracts/IPrismaToken.sol	e5cb7d829c0e385007489f2a8e19b20f30877af7
contracts/PrismaCharity.sol	4727a7af8201fb35805ed91540805ddb8f1c9ccb
contracts/IPrismaDividendTracker.sol	86cc1dc97b84924a29562c0551df03d6c6ef6d69
contracts/IterableMapping.sol	94b30f69ffe82ec32462ad38c4c2c98ba584121b

Metrics

Source Lines v1.1



Risk Level v1.1



Capabilities

Components

Version	Contracts	Libraries	Interfaces	Abstract
1.1	3	1	2	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.

Version	Public	Payable
1.1	99	0

Version	External	Internal	Private	Pure	View
1.1	77	72	0	1	60

State Variables

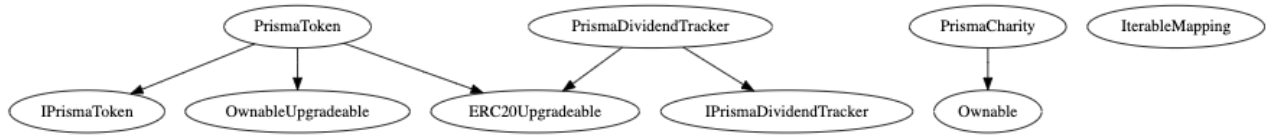
Version	Total	Public
1.1	40	0

Capabilities

Version	Solidity Versions observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
1.1	0.8.18				

Version	Transfers ETH	Low-Level Calls	DelegateCall	Uses Hash Functions	EC Recover	New/Create/Create2
1.1	yes			yes		

Inheritance Graph v1.1



CallGraph v1.1

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. Is contract an upgradeable
2. Correct implementation of Token standard
3. Deployer cannot mint any new tokens
4. Deployer cannot burn or lock user funds
5. Deployer cannot pause the contract
6. Deployer cannot set fees
7. Deployer cannot blacklist/antisnipe addresses
8. Overall checkup (Smart Contract Security)

Is contract an upgradeable

Name	
Is contract an upgradeable?	Yes

Comments:

v1.0

- Owner can deploy a new version of the contract 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

Correct implementation of Token standard

ERC20				
Function	Description	Exist	Tested	Verified
TotalSupply	Provides information about the total token supply	✓	✓	✓
BalanceOf	Provides account balance of the owner's account	✓	✓	✓
Transfer	Executes transfers of a specified number of tokens to a specified address	✓	✓	✓
TransferFrom	Executes transfers of a specified number of tokens from a specified address	✓	✓	✓
Approve	Allow a spender to withdraw a set number of tokens from a specified account	✓	✓	✓
Allowance	Returns a set number of tokens from a spender to the owner	✓	✓	✓

Write functions of contract v1.0

PrismaToken

```
init
transfer
approve
transferFrom
stakePrisma
unstakePrisma
compoundPrisma
createVestingSchedule
release
setBuyLiquidityFee
setBuyTreasuryFee
setBuyItfFee
setSellLiquidityFee
setSellTreasuryFee
setSellItfFee
setMinSwapFees
setAutomatedMarketPair
updatePrismaDividendTracker
excludeFromDividend
updateMinimumBalanceForDividends
updatePrismaDividendToken
setStakingStatus
```

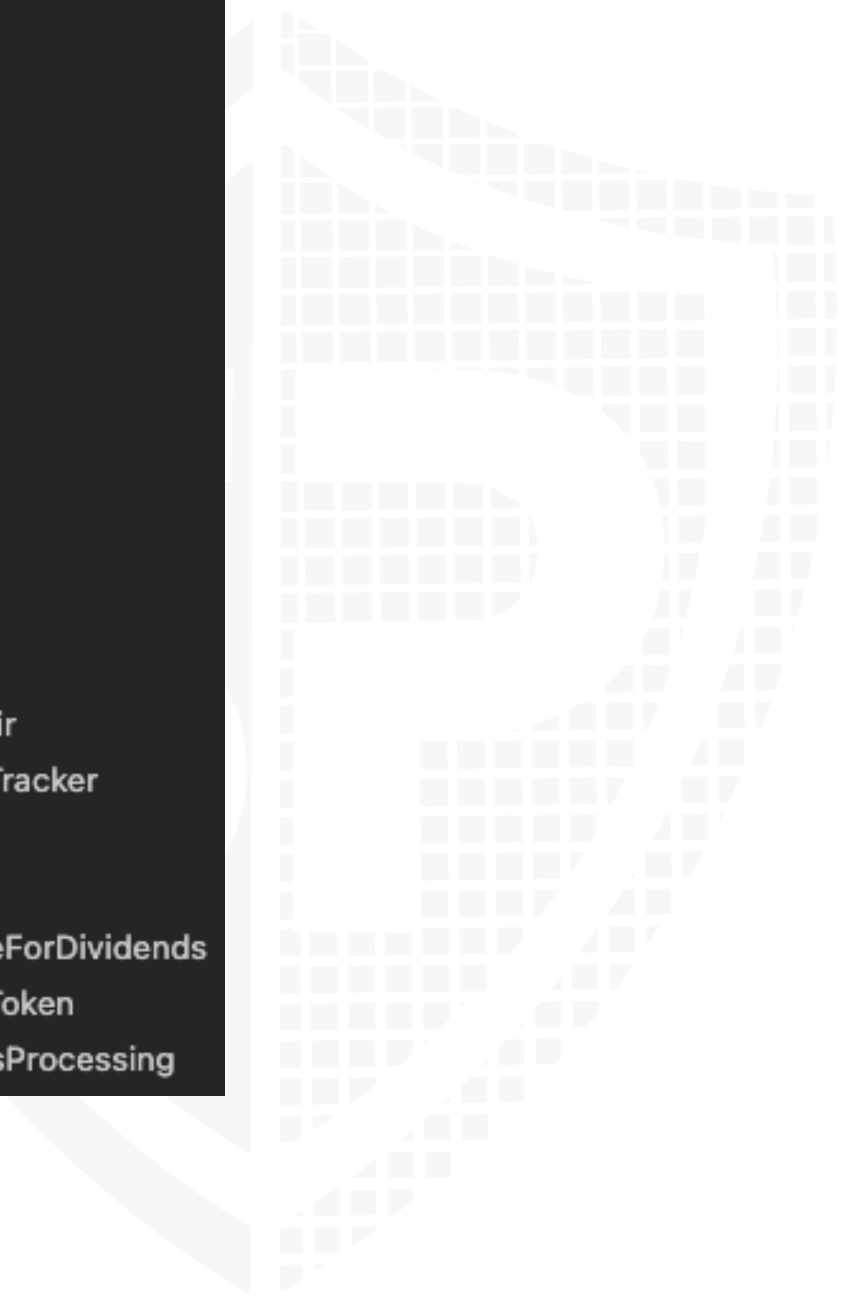
PrismaDividendTracker

```
init
swapFees
setBalance
distributeDividends
claim
manualReinvest
updateMinimumTokenBalanceForDividends
excludeFromDividends
includeFromDividends
setDividendTokenAddress
updateGasForProcessing
```

PrismaCharity

```
retrieveERC20
retrieveBNB
```

Note: Functions imported from official libraries haven't been listed here



```
init
transfer
approve
transferFrom
stakePrisma
unstakePrisma
compoundPrisma
createVestingSchedule
release
setBuyLiquidityFee
setBuyTreasuryFee
setBuyItfFee
setSellLiquidityFee
setSellTreasuryFee
setSellItfFee
setMinSwapFees
setAutomatedMarketPair
updatePrismaDividendTracker
excludeFromDividend
includeFromDividend
updateMinimumBalanceForDividends
updatePrismaDividendToken
updateGasForDividendsProcessing
```

Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer cannot mint	✓	✓	✓
Max / Total Supply	10_000_000		

Comments:

v1.0

- Dividendtracker is minting new tokens with “setBalance” function but the owner cannot mint new tokens directly. The “setBalance” will only be called in the “_transferFrom” and “compundPrisma” function

Deployer cannot burn or lock user funds

Name	Exist	Tested	Status
Deployer cannot lock	✓	✓	✓
Deployer cannot burn	—	—	—

Comments:

v1.0

- Owner can lock user funds by
 - Setting fees to above 100%. For more information please read the “deployer cannot set fees” section down below on page 21.

v1.1

Resolved

The PrismaDeFi team capped the fees to a max of 10%.

```
585 function setBuyTreasuryFee(uint256 newValue↑) external onlyOwner {
586     uint256 oldValue = _buyTreasuryFee;
587     _buyTreasuryFee = newValue↑;
588     require(
589         getTotalBuyFees() + getTotalSellFees() <= 10,
590         "Cannot set fees higher than 10%"
591     );
592     emit BuyTreasuryFeeUpdated(newValue↑, oldValue);
593 }
594
595 /**
596  * @notice Changes the buy ITF fee to a new value
597  * @dev Can only be called by the owner. Ensures that the total of buy
598  * @param newValue The new value for the buy ITF fee
599  */
600 ftrace | funcSig
601 function setBuyItfFee(uint256 newValue↑) external onlyOwner {
602     uint256 oldValue = _buyItfFee;
603     _buyItfFee = newValue↑;
604     require(
605         getTotalBuyFees() + getTotalSellFees() <= 10,
606         "Cannot set fees higher than 10%"
607     );
608     emit BuyItfFeeUpdated(newValue↑, oldValue);
609 }
610
611 /**
612  * @notice Changes the sell liquidity fee to a new value
613  * @dev Can only be called by the owner. Ensures that the total of buy
614  * @param newValue The new value for the sell liquidity fee
615  */
616 ftrace | funcSig
617 function setSellLiquidityFee(uint256 newValue↑) external onlyOwner {
618     uint256 oldValue = _sellLiquidityFee;
619     _sellLiquidityFee = newValue↑;
620     require(
621         getTotalBuyFees() + getTotalSellFees() <= 10,
622         "Cannot set fees higher than 10%"
623     );
624     emit SellLiquidityFeeUpdated(newValue↑, oldValue);
625 }
```

Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer cannot pause	✓	✓	✓

Comments:

v1.0

- Owner can pause the staking for buyers.

v1.1

Resolved

The function “setStakingStatus” has been removed by the team. The contract cannot be paused anymore.

Deployer cannot set fees

Name	Exist	Tested	Status
Deployer cannot set fees over 25%	✓	✓	✓
Deployer cannot set fees to nearly 100% or to 100%	✓	✓	✓

Comments:

v1.0

- The owner is able to set fees to an arbitrary value. That means that the owner can set the fees up to 100%. It is recommended to prevent setting fees above 25% with require statements.

In the contract the sellFees for example (function "getTotalSellFees") when the sum of the fees are above 100% the transfer will be reverted because the amount will be subtracted by the fees. This causes that the amount is lesser than the fee and the TX reverted with an underflow issue which is handled by solidity pragma version above 0.8.x by default. Additionally when the buy fees are 100% the buyer will not get any tokens.

```
260     if (!isFeeExempt[from↑]) {
261         if (getTotalSellFees() > 0) {
262             fee = (amount↑ * getTotalSellFees()) / 100;
263             balances[address(prismaDividendTracker)] += fee;
264             if (overMinSwapFees) {
265                 isInternalTransaction = true;
266                 prismaDividendTracker.swapFees();
267                 isInternalTransaction = false;
268             }
269         }
270     }
271     } else {
272         // Token Transfer
273         if (_stakedPrisma[from↑] > 0) {
274             uint256 nonStakedAmount = fromBalance - _stakedPrisma[
275             require(nonStakedAmount >= amount↑, "You need to unst
276         }
277     }
278 }
279
280 uint256 amountReceived = amount↑ - fee;
```

Resolved

The set fee functions have been modified with “require” statements which prevent setting overall fees above the value of 10%. That causes that the lock above is not possible anymore because the fee cannot be higher than the set amount.

```
585 function setBuyTreasuryFee(uint256 newValue↑) external onlyOwner {
586     uint256 oldValue = _buyTreasuryFee;
587     _buyTreasuryFee = newValue↑;
588     require(
589         getTotalBuyFees() + getTotalSellFees() <= 10,
590         "Cannot set fees higher than 10%"
591     );
592     emit BuyTreasuryFeeUpdated(newValue↑, oldValue);
593 }
594
595 /**
596  * @notice Changes the buy ITF fee to a new value
597  * @dev Can only be called by the owner. Ensures that the total of buy and sell fees is less than or equal to 10%
598  * @param newValue The new value for the buy ITF fee
599  */
600 ftrace | funcSig
601 function setBuyItfFee(uint256 newValue↑) external onlyOwner {
602     uint256 oldValue = _buyItfFee;
603     _buyItfFee = newValue↑;
604     require(
605         getTotalBuyFees() + getTotalSellFees() <= 10,
606         "Cannot set fees higher than 10%"
607     );
608     emit BuyItfFeeUpdated(newValue↑, oldValue);
609 }
610
611 /**
612  * @notice Changes the sell liquidity fee to a new value
613  * @dev Can only be called by the owner. Ensures that the total of buy and sell fees is less than or equal to 10%
614  * @param newValue The new value for the sell liquidity fee
615  */
616 ftrace | funcSig
617 function setSellLiquidityFee(uint256 newValue↑) external onlyOwner {
618     uint256 oldValue = _sellLiquidityFee;
619     _sellLiquidityFee = newValue↑;
620     require(
621         getTotalBuyFees() + getTotalSellFees() <= 10,
622         "Cannot set fees higher than 10%"
623     );
624     emit SellLiquidityFeeUpdated(newValue↑, oldValue);
625 }
```


Deployer can blacklist/antisnipe addresses

Name	Exist	Tested	Status
Deployer cannot blacklist/antisnipe addresses	—	—	—



Overall checkup (Smart Contract Security)

Tested	Verified
✓	✓

Legend

Attribute	Symbol
Verified / Checked	✓
Partly Verified	⚠
Unverified / Not checked	✗
Not available	—

Modifiers and public functions

v1.0

PrismaToken

- init
 - initializer
- transfer
- approve
- transferFrom
- stakePrisma
- unstakePrisma
- compoundPrisma
- createVestingSchedule
 - onlyOwner
- release
- setBuyLiquidityFee
 - onlyOwner
- setBuyTreasuryFee
 - onlyOwner
- setBuyItfFee
 - onlyOwner
- setSellLiquidityFee
 - onlyOwner
- setSellTreasuryFee
 - onlyOwner
- setSellItfFee
 - onlyOwner
- setMinSwapFees
 - onlyOwner
- setAutomatedMarketPair
 - onlyOwner
- updatePrismaDividendTracker
 - onlyOwner
- excludeFromDividend
 - onlyOwner
- updateMinimumBalanceForDividends
 - onlyOwner
- updatePrismaDividendToken
 - onlyOwner
- setStakingStatus
 - onlyOwner

PrismaDividendTracker

- init
 - initializer
- swapFees
 - onlyOwner
- setBalance
 - onlyOwner
- distributeDividends
- claim
- manualReinvest
- updateMinimumTokenBalanceForDividends
 - onlyOwner
- excludeFromDividends
 - onlyOwner
- includeFromDividends
 - onlyOwner
- setDividendTokenAddress
 - onlyOwner
- updateGasForProcessing
 - onlyOwner

PrismaCharity

- retrieveERC20
 - onlyOwner
- retrieveBNB
 - onlyOwner

Note: The functions from official libraries haven't been listed here

Comments

- PrismaToken
 - setStakingStatus
 - Enable/disable staking of prisma
 - updatePrismaDividendToken
 - Update the current dividend token address
 - updateMinimumBalanceForDividends
 - Update the minimum balance of the tracker. This can be set to an arbitrary value without limitation
 - excludeFromDividend
 - Excluded an address from dividends
 - updatePrismaDividendTracker
 - Update the current dividend tracker address. Make sure that the dividend token address is set while updating the tracker. Ensure that the owner of the dividend tracker should be always the prismaToken address otherwise the swapFees function will not work properly
 - setAutomatedMarketPair
 - Set an automated market pair
 - setMinSwapFees
 - Min swap fees
 - setSellItfFee
 - Sell fees
 - setSellTreasuryFee
 - Treasury fees
 - setSellLiquidityFee
 - Liquidity fees for sells
 - setBuyItfFee
 - Buy fees
 - setBuyTreasuryFee
 - Buy fees of treasury
 - setBuyLiquidityFee
 - Liquidity buy fees
 - createVestingSchedule
 - Creates a new vesting schedule for a beneficiary
 - init
 - Initialize function while deploying a new contract to set the variables
- PrismaCharity
 - retrieveERC20
 - The owner is able to take out every token that is held by the charity contract. The tokens of the prisma proxy can only be retrieved when the balance of the prismaproxy address minus the amount is higher than $200_000 * 10^{18}$
 - retrieveBNB

- The owner is able to send native funds of the charity contract to an arbitrary destination.
- PrismaDividendTracker
 - Owner should be the prismaToken itself
 - updateGasForProcessing
 - Update gas for processing
 - setDividendTokenAddress
 - Update dividend token
 - updateMinimumTokenBalanceForDividends
 - Update minimum token balance for the dividends
 - excludeFromDividends
 - Excludes addresses from dividends
 - includeFromDividends
 - Include addresses in dividends

PrismaToken

```

  init
  @initializer
  transfer
  approve
  transferFrom
  stakePrisma
  unstakePrisma
  compoundPrisma
  createVestingSchedule
    @onlyOwner
  release
  setBuyLiquidityFee
    @onlyOwner
  setBuyTreasuryFee
    @onlyOwner
  setBuyItfFee
    @onlyOwner
  setSellLiquidityFee
    @onlyOwner
  setSellTreasuryFee
    @onlyOwner
  setSellItfFee
    @onlyOwner
  setMinSwapFees
    @onlyOwner
  setAutomatedMarketPair
    @onlyOwner
  updatePrismaDividendTracker
    @onlyOwner
  excludeFromDividend
    @onlyOwner
  includeFromDividend
    @onlyOwner
  updateMinimumBalanceForDividends
    @onlyOwner
  updatePrismaDividendToken
    @onlyOwner
  updateGasForDividendsProcessing
    @onlyOwner

```

PrismaDividendTracker

```












  init
    @initializer
  swapFees
    @onlyPrisma
  setBalance
    @onlyPrisma
  distributeDividends
  claim
  manualReinvest
  updateMinimumTokenBalanceForDividends
    @onlyPrisma
  excludeFromDividends
    @onlyPrisma
  includeFromDividends
    @onlyPrisma
  setDividendTokenAddress
    @onlyPrisma
  updateGasForProcessing
    @onlyPrisma

```












- setStakingStatus has been removed
- onlyOwner has been renamed to onlyPrisma in the dividend tracker

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

Source Units in Scope v1.0

Type	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
	contracts/PrismaToken.sol	1	————	688	625	383	148	247	
	contracts/PrismaDividendTracker.sol	1	————	737	693	398	185	278	
	contracts/IPrismaToken.sol	————	1	23	6	3	1	19	————
	contracts/PrismaCharity.sol	1	————	35	31	18	7	22	
	contracts/IPrismaDividendTracker.sol	————	1	94	10	3	47	27	————
	contracts/IterableMapping.sol	1	————	68	62	48	2	7	————
	Totals	4	2	1645	1427	853	390	600	

v1.1

Type	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
	contracts/PrismaToken.sol	1	————	1001	936	449	417	278	
	contracts/PrismaDividendTracker.sol	1	————	848	802	447	248	289	
	contracts/IPrismaToken.sol	————	1	23	6	3	1	19	————
	contracts/PrismaCharity.sol	1	————	61	57	24	27	26	
	contracts/IPrismaDividendTracker.sol	————	1	99	10	3	50	29	————
	contracts/IterableMapping.sol	1	————	68	62	48	2	7	————
	Totals	4	2	2100	1873	974	745	648	

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

No medium issues

Low issues

No low issues

Informational issues

No informational issues

Audit Comments

05. June 2023:

- The owner can deploy a new version of the contract which can change any limit and give the owner new privileges
- Read the whole report and modifiers section for more information



SWC Attacks

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

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

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

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

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