

Primex Finance

Primex Protocol Arbitrum Deployment Audit Report



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Executive Summary

Primex Finance contracted the services of Resonance to conduct a comprehensive security audit of the deployment of all contracts on Arbitrum between November 15, 2023 and November 23, 2023. The audit of Primex's protocol smart contracts deployment on the Arbitrum network was conducted to ensure the security, reliability, and integrity of the platform's operations.

During the engagement, Resonance allocated 3 engineers to perform the review. The engineers, including an accomplished professional with extensive proficiency in blockchain and smart contract security, encompassing specialized skills in advanced penetration testing, and in-depth knowledge of multiple blockchain protocols, devoted 6 days to the project. The project's test targets, overview, and coverage details are available throughout the next sections of the report.

The ultimate goal of the audit was to provide Primex Finance with a detailed summary of the findings, including any identified vulnerabilities, and recommendations to mitigate any discovered risks. The results of the audit are presented in the subsequent sections of this report.



System Overview

Primex Finance is a decentralized exchange platform powered by smart contract where users can lend and swap tokens, perform trading operations, and earn rewards by utilizing the protocol.

The system is composed of several components: the bucket infrastructure where all the lending and borrowing happens; the trading managers that implement logic to swap, open and close positions, with or without conditions; and the protocol management where Primex admin control emergency pauses, propositions and executions.

As a general workflow, a lender is able to stake collateral on a bucket and receive yield-bearing tokens. The collateral can be used by traders to borrow and open margin positions. The keepers handle the conditions that occur over time, such as, opening limit orders when price as reached the limit price, liquidating users with underwater positions, closing trades with set stop-losses, etc.

By using the different components of the protocol, all actors receive rewards that incentivise further usage. One of such rewards is the PMX token that offers utility and governance capabilities on the protocol.

Target

The objective of this project is to conduct a comprehensive review and security analysis of the smart contracts that are contained within the specified repository.

The following items are included as targets of the security assessment:

- Repository (main + source of artifacts): [primex-finance/primex-protocol/src](#)
- Hash: 6447fe9c8528f9df26f6f592500bf751432cbf19
- Repository (support): [primex-finance/primex_contracts/src](#)
- Hash: 5f9586ef678be8a9a4190cb00909ee3e1e27d012
- Repository (support): [primex-finance/primex_artifacts](#)
- Hash: db3299e40e5c536e7f065917b3f5895d692ea056

The following items are excluded:

- External and standard libraries
- Financial-related attack vectors

Methodology

In the context of security audits, Resonance's primary objective is to portray the workflow of a real-world cyber attack against an entity or organization, and document in a report the findings, vulnerabilities, and techniques used by malicious actors. While several approaches can be taken into consideration during the assessment, Resonance's core value comes from the ability to correlate automated and manual analysis of system components and reach a comprehensive understanding and awareness with the customer on security-related issues.

Resonance implements several and extensive verifications based off industry's standards, such as, identification and exploitation of security vulnerabilities both public and proprietary, static and dynamic testing of relevant workflows, adherence and knowledge of security best practices, assurance of system specifications and requirements, and more. Resonance's approach is therefore consistent, credible and essential, for customers to maintain a low degree of risk exposure.

Ultimately, product owners are able to analyze the audit from the perspective of a malicious actor and distinguish where, how, and why security gaps exist in their assets, and mitigate them in a timely fashion.

Code Deployment Review - Web3

During code deployment reviews for Web3 assets, Resonance includes a specific methodology that better attempts to effectively test the system in check:

1. Contract Deployment And Verification:

- Verify the deployment of all contracts on the respective blockchain explorer.
- Check the accuracy and authenticity of contract addresses.
- Identify any contracts that are not part of the intended deployment.
- Ascertain the upgradeable nature of contracts and ensure they possess the appropriate proxies.
- Validate any non-upgradeable contracts.

2. Configuration And Permissions:

- Review storage fields to ensure they store relevant contract data accurately.
- Analyze roles within the system, ensuring correct allocation and permissions.
- Ensure all contracts are on the whitelist, mitigating risks of unintended actions.
- Confirm that no addresses are mistakenly blacklisted.

3. Parameter Checks:

- Conduct a thorough review of asset parameters to ensure correctness and security.
- Review parameters related to core functionalities, for instance, trading or staking for a DEX protocol.
- Check any transfer restrictions and verify whitelisted addresses.
- confirm that administrative privileges are set up securely, ensuring the decentralisation and robustness of the system.



Severity Rating

Security findings identified by Resonance are rated based on a Severity Rating which is, in turn, calculated off the **impact** and **likelihood** of a related security incident taking place. This rating provides a way to capture the principal characteristics of a finding in these two categories and produce a score reflecting its severity. The score can then be translated into a qualitative representation to help customers properly assess and prioritize their vulnerability management processes.

The **impact** of a finding can be categorized in the following levels:

- 1. Weak - Inconsequential or minimal damage or loss
- 2. Medium - Temporary or partial damage or loss
- 3. Strong - Significant or unrecoverable damage or loss

The **likelihood** of a finding can be categorized in the following levels:

- 1. Unlikely - Requires substantial knowledge or effort or uncontrollable conditions
- 2. Likely - Requires technical knowledge or no special conditions
- 3. Very Likely - Requires trivial knowledge or effort or no conditions

		Likelihood		
		Very Likely	Likely	Unlikely
Impact	Strong	Critical	High	Medium
	Medium	High	Medium	Low
	Weak	Medium	Low	Info

Findings

During the security audit, several findings were identified to possess a certain degree of security-related weaknesses. These findings, represented by unique IDs, are detailed in this section with relevant information including Severity, Category, Status, Code Section, Description, and Recommendation. Further extensive information may be included in corresponding appendices should it be required.

An overview of all the identified findings is outlined in the table below, where they are sorted by Severity and include a **Remediation Priority** metric asserted by Resonance's Testing Team. This metric characterizes findings as follows:

- ||||| **"Quick Win"** Requires little work for a high impact on risk reduction.
- |||| **"Standard Fix"** Requires an average amount of work to fully reduce the risk.
- ||| **"Heavy Project"** Requires extensive work for a low impact on risk reduction.

Findings ID	Description	Severity	Status
RES-01	ActivityRewardDistributor Contract		Acknowledged
RES-02	ActivityRewardDistributor Implementation Contract		Acknowledged
RES-03	BatchManager Contract		Acknowledged
RES-04	BestDexLens Contract		Acknowledged
RES-05	BigTimelockAdmin Contract		Acknowledged
RES-06	Bucket Contract		Acknowledged
RES-07	BucketsFactory Contract		Acknowledged
RES-08	Bucket-USDC Contract		Acknowledged
RES-09	DebtToken Contract		Acknowledged
RES-10	DebtTokensFactory Contract		Acknowledged
RES-11	debt-USDC Contract		Acknowledged
RES-12	debt-WETH Contract		Acknowledged
RES-13	DexAdapter Contract		Acknowledged
RES-14	EPMXPriceFeed Contract		Acknowledged
RES-15	EPMXToken Contract		Acknowledged
RES-16	Errors Contract		Acknowledged
RES-17	InterestRateStrategy Contract		Acknowledged

RES-18	KeeperRewardDistributor Contract		Acknowledged
RES-19	KeeperRewardDistributor Implementation Contract		Acknowledged
RES-20	LimitOrderLibrary Contract		Acknowledged
RES-21	LimitOrderManager Contract		Acknowledged
RES-22	LimitOrderManager Implementation Contract		Acknowledged
RES-23	LimitPriceCOM Contract		Acknowledged
RES-24	LiquidityMiningRewardDistributor Contract		Acknowledged
RES-25	LiquidityMiningRewardDistributor Implementation Contract		Acknowledged
RES-26	MediumTimelockAdmin Contract		Acknowledged
RES-27	PositionLibrary Contract		Acknowledged
RES-28	PositionManager Contract		Acknowledged
RES-29	PositionManager Implementation Contract		Acknowledged
RES-30	PriceOracle Contract		Acknowledged
RES-31	PriceOracle Implementation Contract		Acknowledged
RES-32	PrimexDNS Contract		Acknowledged
RES-33	PrimexDNS Implementation Contract		Acknowledged
RES-34	PrimexLens Contract		Acknowledged
RES-35	PrimexPricingLibrary Contract		Acknowledged
RES-36	PrimexProxyAdmin Contract		Acknowledged
RES-37	PrimexUpkeep Contract		Acknowledged
RES-38	PToken Contract		Acknowledged
RES-39	PTokensFactory Contract		Acknowledged
RES-40	P-USDC Contract		Acknowledged
RES-41	P-WETH Contract		Acknowledged
RES-42	ReferralProgram Contract		Acknowledged
RES-43	ReferralProgram Implementation Contract		Acknowledged
RES-44	PrimexRegistry Contract		Acknowledged
RES-45	Reserve Contract		Acknowledged
RES-46	Reserve Implementation Contract		Acknowledged
RES-47	SmallTimelockAdmin Contract		Acknowledged
RES-48	SpotTradingRewardDistributor Contract		Acknowledged

RES-49	SpotTradingRewardDistributor Implementation Contract		Acknowledged
RES-50	SwapManager Contract		Acknowledged
RES-51	TakeProfitStopLossCCM Contract		Acknowledged
RES-52	TokenTransfersLibrary Contract		Acknowledged
RES-53	TraderBalanceVault Contract		Acknowledged
RES-54	TraderBalanceVault Implementation Contract		Acknowledged
RES-55	Treasury Contract		Acknowledged
RES-56	Treasury Implementation Contract		Acknowledged
RES-57	WhiteBlackList Contract		Acknowledged
RES-58	WhiteBlackList Implementation Contract		Acknowledged



ActivityRewardDistributor Contract

Info

RES-PRMX-ADR01

Data Validation

Acknowledged

ActivityRewardDistributor Contract Information Summary	
Deployed	0x38D94212AAe3f4aB3E4fE801d9021ab0aA371DaB
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	TransparentUpgradeableProxy ✓
Input params (initialize)	<div><div>_pmx: 0xA533f744B179F2431f5395978e391107DC76e103 ✓</div><div>_dns: 0x893047ea492659418501e3b5868aBe75468e2EB6 ✓</div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>_treasury: 0x63464916388dAB4f2e80551250335490C4518D37 ✓</div><div>_traderBalanceVault: 0xc08FFBBA8c5f42beb7e6dd29142cC61855a3076B ✓</div><div>_whiteBlackList: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✓</div></div>
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>_status: 1 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>pmx: 0xA533f744B179F2431f5395978e391107DC76e103 ✓</div><div>dns: 0x893047ea492659418501e3b5868aBe75468e2EB6 ✓</div><div>registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>treasury: 0x63464916388dAB4f2e80551250335490C4518D37 ✓</div><div>traderBalanceVault: 0xc08FFBBA8c5f42beb7e6dd29142cC61855a3076B ✓</div><div>buckets: {...abbreviated...} ✓</div><div>whiteBlackList: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✓</div></div>
Libraries	None
Deploy Scripts	<div><div>deploy/core/ActivityRewardDistributor.deploy.js</div><div>tasks/core/ActivityRewardDistributor/ActivityRewardDistributor.deploy.js</div></div>
Deploy Configs	None

The proxy contract's owner is the contract PrimexProxyAdmin (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).



ActivityRewardDistributor Implementation Contract

ActivityRewardDistributor (Implementation) Contract Information Summary	
Deployed	0xEa9c9D1d1fEA00e4Bc290b3c4A13BA23239806E5
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>_status: 0 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>pmx: 0x00 ✓</div><div>dns: 0x00 ✓</div><div>registry: 0x00 ✓</div><div>treasury: 0x00 ✓</div><div>traderBalanceVault: 0x00 ✓</div><div>buckets: {} ✓</div><div>whiteBlackList: 0x00 ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div>deploy/core/ActivityRewardDistributor.deploy.js</div> <div>tasks/core/ActivityRewardDistributor/ActivityRewardDistributor.deploy.js</div>
Deploy Configs	None



BatchManager Contract

BatchManager Contract Information Summary	
Deployed	0xF2225a8f90311DaF9e989db1AfFd47617bb69E96
Verified	No, by Arbiscan ❌
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✔️
Proxy	No ✔️
Input params (constructor)	<div><div>_positionManager: 0x86890E30cE9E1e13Db5560BbEb435c55567Af1cd ✔️</div><div>_priceOracle: 0x156e2fC8e1906507412BEeEB6640Bf999a1Ea76b ✔️</div><div>_whiteBlacklist: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✔️</div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✔️</div></div>
Storage	<div><div>_status: 1 ✔️</div><div>_paused: false ✔️</div></div>
Libraries	<div><div>PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✔️</div><div>PositionLibrary: 0xEDB5D3462E23089F27C6C2D322184182149e1285 ✔️</div><div>Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✔️</div></div>
Deploy Scripts	<div><div>deploy/core/BatchManager.deploy.js</div><div>tasks/core/BatchManager/batchManager.deploy.js</div></div>
Deploy Configs	None

Note: While the contract’s bytecode is not yet verified by Arbiscan, it matches the compiled artifacts’ bytecode of the project’s repository.



BestDexLens Contract

	BestDexLens Contract Information Summary
Deployed	0x2295d405eaf7c4E21D1Ef751404c3020A079194b
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None
Storage	None
Libraries	PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✓ Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/lens/BestDexLens.deploy.js tasks/core/lens/BestDexLens/bestDexLens.deploy.js
Deploy Configs	None



BigTimelockAdmin Contract

	BigTimelockAdmin Contract Information Summary
Deployed	0x26785F1Ce7090075eb3F769764512750c4380FA6
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	<div><div>_minDelay: 864000 ✓</div><div>_proposers: [0x9bC2D435bdCA131ec0F48C6589dD3F924AeBB9B8] ✓</div><div>_executors: [0x9bC2D435bdCA131ec0F48C6589dD3F924AeBB9B8] ✓</div><div>_admin: 0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 ✓</div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div></div>
Storage	<div><div>_roles: {...abbreviated...} ✓</div><div>_timestamps: {...abbreviated...} ✓</div><div>_minDelay: 864000 ✓</div><div>_paused: false ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div><div>deploy/core/PrimexTimelocks.deploy.js</div><div>tasks/core/PrimexTimelock/PrimexTimelock.deploy.js</div></div>
Deploy Configs	<div><div>config/arbitrumOne/generalConfig.json</div></div>



Bucket Contract

Bucket Contract Information Summary	
Deployed	0xf47B02DE4176c7cB0E4906558029742828e86126
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None
Storage	_initialized: 255 ✓ _initializing: false ✓ _status: 0 ✓ __gap: [] ✓ __gap: [] ✓ name: "" ✓ registry: 0x00 ✓ positionManager: 0x00 ✓ reserve: 0x00 ✓ pToken: 0x00 ✓ debtToken: 0x00 ✓ borrowAsset: 0x00 ✓ feeBuffer: 0 ✓ bar: 0 ✓ lar: 0 ✓ estimatedBar: 0 ✓ estimatedLar: 0 ✓ liquidityIndex: 0 ✓ variableBorrowIndex: 0 ✓ lastUpdatedBlockTimestamp: 0 ✓ permanentLossScaled: 0 ✓ reserveRate: 0 ✓ withdrawalFeeRate: 0 ✓ whiteBlackList: 0x00 ✓ allowedAssets: {} ✓ interestRateStrategy: 0x00 ✓ aaveDeposit: 0 ✓ isReinvestToAaveEnabled: false ✓ maxTotalDeposit: 0 ✓ assets: [] ✓ LMparams: {} ✓ dns: 0x00 ✓ priceOracle: 0x00 ✓
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓ TokenTransfersLibrary: 0xD1869a3C77C17D185c9a5e8904e0e4867e5EB1D9 ✓
Deploy Scripts	deploy/core/BucketImplementation.deploy.js tasks/core/factories/BucketsFactory/BucketImplementation.deploy.js
Deploy Configs	None



BucketsFactory Contract

	BucketsFactory Contract Information Summary
Deployed	0x4e6f7372bCE4083c779c17B240A94dc2EA57AE67
Verified	No, by Arbiscan ❌
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✔️
Proxy	UpgradeableBeacon ✔️
Input params (constructor)	<div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✔️</div><div>_pTokensFactory: 0x8e4C95b50DC3411e9dd0E8c98aE5dd811192BC9A ✔️</div><div>_debtTokensFactory: 0x05Ee7B3701d8c19EcFBCbDcD0A2Bda8eb25790BA ✔️</div><div>_bucketImplementation: 0x759CDA29fc31A3B26920971f685Dd35cE690f061 ✔️</div></div>
Storage	<div><div>_owner: 0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147 ✔️</div><div>_implementation: 0x7C3bFecb4eA2533b3CBeaF0C80124DD35bC20F87 ✔️</div><div>pTokensFactory: 0x8e4C95b50DC3411e9dd0E8c98aE5dd811192BC9A ✔️</div><div>debtTokensFactory: 0x05Ee7B3701d8c19EcFBCbDcD0A2Bda8eb25790BA ✔️</div><div>buckets: [...abbreviated...] ✔️</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✔️
Deploy Scripts	<div>deploy/core/factories/BucketsFactory.deploy.js</div> <div>tasks/core/factories/BucketsFactory/BucketsFactory.deploy.js</div>
Deploy Configs	None

The proxy contract's owner is the contract PrimexProxyAdmin (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).

Note: While the contract's bytecode is not yet verified by Arbiscan, it matches the compiled artifacts' bytecode of the project's repository.



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Issues:

1. This contract implements a test bucket. Test smart contracts should be destroyed or disabled on mainnet.
2. `maxTotalDeposit` value does not comply with the provided documentation.
3. `stabilizationDuration` value does not comply with the provided documentation.
4. `maxAmountPerUser` value does not comply with the provided documentation.

Status

The issue was acknowledged by Primex's team. The development team stated "A proposal was created and executed for deprecating the test buckets, and fully functional ones have been launched with the correct parameters."



DebtToken Contract

	DebtToken Contract Information Summary
Deployed	0x34c12a372E545174864c073A953182a27f00Fe2b
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_balances: {} ✓</div><div>_allowances: {} ✓</div><div>_totalSupply: 0 ✓</div><div>_name: "" ✓</div><div>_symbol: "" ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>bucket: 0x00 ✓</div><div>feeDecreaser: 0x00 ✓</div><div>traderRewardDistributor: 0x00 ✓</div><div>bucketsFactory: 0x00 ✓</div><div>_tokenDecimals: 0 ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div>deploy/core/DebtTokenImplementation.deploy.js</div> <div>tasks/core/factories/DebtTokensFactory/DebtTokenImplementation.deploy.js</div>
Deploy Configs	None



DebtTokensFactory Contract

DebtTokensFactory Contract Information Summary	
Deployed	0x05Ee7B3701d8c19EcFBCbDcD0A2Bda8eb25790BA
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	UpgradeableBeacon ✓
Input params (constructor)	_debtTokenImplementation: 0xa88935D6bc5E78f0818Ab8193420Efd110D0ED46 ✓
Storage	_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
	_owner: 0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147 ✓
	_implementation: 0x34c12a372E545174864c073A953182a27f00Fe2b ✓
	bucketsFactory: 0x4e6f7372bCE4083c779c17B240A94dc2EA57AE67 ✓
	registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
Libraries	Errors: 0xBC1b24A665EF6dfa9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/factories/DebtTokensFactory.deploy.js tasks/core/factories/DebtTokensFactory/DebtTokensFactory.deploy.js
Deploy Configs	None

The proxy contract's owner is the contract PrimexProxyAdmin (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).



debt-USDC Contract

	debt-USDC Contract Information Summary
Deployed	0x830c643Ff83F240845FA963D6446Df3A6f687C14
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	BeaconProxy ✓
Input params (initialize)	<div><div>_name: Primex DebtToken USD Coin ✓</div><div>_symbol: debt-USDC ✓</div><div>_decimals: 6 ✓</div><div>_bucketsFactory: 0x4e6f7372bCE4083c779c17B240A94dc2EA57AE67 ✓</div></div>
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_balances: {...abbreviated...} ✓</div><div>_allowances: {...abbreviated...} ✓</div><div>_totalSupply: 0 ✓</div><div>_name: "Primex DebtToken USD Coin" ✓</div><div>_symbol: "debt-USDC" ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>bucket: 0xA4E15B84fc22EE720862bEcBa1fAc3D1008BAeda ✗</div><div>feeDecreaser: 0x00 ✓</div><div>traderRewardDistributor: 0x00 ✗</div><div>bucketsFactory: 0x4e6f7372bCE4083c779c17B240A94dc2EA57AE67 ✓</div><div>_tokenDecimals: 6 ✓</div></div>
Libraries	None
Deploy Scripts	tasks/core/Bucket/bucket.deploy.js
Deploy Configs	None

Issues:

1. This contract references a test bucket. Test smart contracts should not be referenced or used on mainnet.

Status

The issue was acknowledged by Primex’s team. The development team stated "A proposal was created and executed for deprecating the test buckets, and fully functional ones have been launched with the correct parameters."



debt-WETH Contract

	debt-WETH Contract Information Summary
Deployed	0xD902202c2287FE3DD8e8A7F3ADB00982529E81Ae
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	BeaconProxy ✓
Input params (initialize)	<div><div>_name: Primex DebtToken Wrapped Ether ✓</div><div>_symbol: debt-WETH ✓</div><div>_decimals: 18 ✓</div><div>_bucketsFactory: 0x4e6f7372bCE4083c779c17B240A94dc2EA57AE67 ✓</div></div>
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_balances: {...abbreviated...} ✓</div><div>_allowances: {...abbreviated...} ✓</div><div>_totalSupply: 0 ✓</div><div>_name: "Primex DebtToken Wrapped Ether" ✓</div><div>_symbol: "debt-WETH" ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>bucket: 0x80629d14f390b1BdAfA45b5eE4f3c1FD026DdD10 ✗</div><div>feeDecreaser: 0x00 ✓</div><div>traderRewardDistributor: 0x00 ✗</div><div>bucketsFactory: 0x4e6f7372bCE4083c779c17B240A94dc2EA57AE67 ✓</div><div>_tokenDecimals: 18 ✓</div></div>
Libraries	None
Deploy Scripts	tasks/core/Bucket/bucket.deploy.js
Deploy Configs	None

Issues:

1. This contract references a test bucket. Test smart contracts should not be referenced or used on mainnet.

Status

The issue was acknowledged by Primex’s team. The development team stated "A proposal was created and executed for deprecating the test buckets, and fully functional ones have been launched with the correct parameters."



DexAdapter Contract

	DexAdapter Contract Information Summary
Deployed	0x1da9c104C517C7b4465c8Eef458Da0a6c61835Fe
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
Storage	dexType: {...abbreviated...} ✓ quoters: {...abbreviated...} ✓
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/DexAdapter.deploy.js tasks/core/DexAdapter/dexAdapter.deploy.js
Deploy Configs	config/arbitrumOne/addresses.json



EPMXPriceFeed Contract

EPMXPriceFeed Contract Information Summary	
Deployed	0x053FB5b7c555FC0d9Bc49118023d6B6A4019168f
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
Storage	decimals: 8 ✓ _currentRound: 1 ✓ _latestRoundData: {...abbreviated...} ✓ _answers: {...abbreviated...} ✓
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/EPMXTokenOracle.deploy.js tasks/core/EPMXPriceFeed/EPMXPriceFeed.deploy.js
Deploy Configs	config/arbitrumOne/generalConfig.json



EPMXToken Contract

EPMXToken Contract Information Summary	
Deployed	0xA533f744B179F2431f5395978e391107DC76e103
Verified	Yes, by Arbiscan ✓
Deployer	0x82B7aaab1F90f1658c76ccb79209cCF895acD32a (Primex) ✓
Proxy	No ✓
Input params (constructor)	_recipient: 0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 ✓
Storage	_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
	_balances: {...abbreviated...} ✓
	_allowances: {...abbreviated...} ✓
	_totalSupply: 50000000000000000000000000000000 ✓
	_name: Early Primex Token ✓
	_symbol: ePMX ✓
	whitelist: {...abbreviated...} ✓
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/EPMXToken.deploy.js tasks/core/EPMXToken/EPMXToken.deploy.js
Deploy Configs	None

Contract addresses on whitelist:

- ActivityRewardDistributor
- BigTimelockAdmin
- LiquidityMiningRewardDistributor
- MediumTimelockAdmin
- SmallTimelockAdmin
- SpotTradingRewardDistributor
- TraderBalanceVault
- Treasury



Errors Contract

Errors Contract Information Summary	
Deployed	0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 (Library)
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None
Storage	None
Libraries	None
Deploy Scripts	deploy/core/libraries/Errors.deploy.js tasks/core/libraries/Errors/Errors.deploy.js
Deploy Configs	None



InterestRateStrategy Contract

InterestRateStrategy Contract Information Summary	
Deployed	0x6C6fa04081535C2767170679C4A2BcCd9F07ff3A
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None
Storage	calculationParams: {...abbreviated...} ✓
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/InterestRateStrategy.deploy.js tasks/core/InterestRateStrategy/InterestRateStrategy.deploy.js
Deploy Configs	None



KeeperRewardDistributor Contract

KeeperRewardDistributor Contract Information Summary	
Deployed	0xeFCDBbd36a9D77264d56F22e0E94f8D5F425f9b4
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	TransparentUpgradeableProxy ✓
Input params (initialize)	priceOracle: 0x156e2fC8e1906507412BEeEB6640Bf999a1Ea76b ✓ registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓ pmx: 0xA533f744B179F2431f5395978e391107DC76e103 ✓ treasury: 0x63464916388dAB4f2e80551250335490C4518D37 ✓ whiteBlackList: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✓ pmxPartInReward: 500000000000000000 ✓ nativePartInReward: 950000000000000000 ✓ positionSizeCoefficientA: 800721629600000000 ✗ positionSizeCoefficientB: 855789200000000000 ✗ additionalGas: 150000 ✓ defaultMaxGasPrice: 200000000000 ✓ oracleGasPriceTolerance: 250000000000000000 ✓ paymentModel: 1 ✓ maxGasPerPositionParams: [...abbreviated...] ✓ decreasingGasByReasonParams: [...abbreviated...] ✓
Storage	_initialized: 1 ✓ _initializing: false ✓ _status: 1 ✓ __gap: [] ✓ __gap: [] ✓ _paused: false ✓ __gap: [] ✓ __gap: [] ✓ priceOracle: 0x156e2fC8e1906507412BEeEB6640Bf999a1Ea76b ✓ registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓ pmx: 0xA533f744B179F2431f5395978e391107DC76e103 ✓ treasury: 0x63464916388dAB4f2e80551250335490C4518D37 ✓ pmxPartInReward: 500000000000000000 ✓ nativePartInReward: 950000000000000000 ✓ positionSizeCoefficientA: 800721629600000000 ✗ positionSizeCoefficientB: 855789200000000000 ✗ additionalGas: 150000 ✓ defaultMaxGasPrice: 200000000000 ✓ oracleGasPriceTolerance: 250000000000000000 ✓ paymentModel: 1 ✓ keeperBalance: {...abbreviated...} ✓ totalBalance: {...abbreviated...} ✓ maxGasPerPosition: {...abbreviated...} ✓ dataLengthRestrictions: {...abbreviated...} ✓ decreasingGasByReason: {...abbreviated...} ✓ whiteBlackList: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✓
Libraries	None
Deploy Scripts	deploy/core/KeeperRewardDistributor.deploy.js tasks/core/KeeperRewardDistributor/KeeperRewardDistributor.deploy.js
Deploy Configs	config/arbitrumOne/generalConfig.json

The proxy contract's owner is the contract `PrimexProxyAdmin` (`0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147`).

Issues:

1. `positionSizeCoefficientA` value does not comply with the provided documentation.
2. `positionSizeCoefficientB` value does not comply with the provided documentation.

Status

The issue was acknowledged by Primex's team. The development team stated "A proposal was created and executed to correct the parameters `positionSizeCoefficientA`: 0 and `positionSizeCoefficientB`: 1. These parameters have been set as so due to a temporal fee discount for users with 0 rates, so keeper reward also doesn't depend on the position size."



KeeperRewardDistributor Implementation Contract

KeeperRewardDistributor (Implementation) Contract Information Summary	
Deployed	0x884ee8f4972DC5e938944aDB3400cbB3a8a5c393
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>_status: 0 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>priceOracle: 0x00 ✓</div><div>registry: 0x00 ✓</div><div>pmx: 0x00 ✓</div><div>treasury: 0x00 ✓</div><div>pmxPartInReward: 0 ✓</div><div>nativePartInReward: 0 ✓</div><div>positionSizeCoefficientA: 0 ✓</div><div>positionSizeCoefficientB: 0 ✓</div><div>additionalGas: 0 ✓</div><div>defaultMaxGasPrice: 0 ✓</div><div>oracleGasPriceTolerance: 0 ✓</div><div>paymentModel: 0 ✓</div><div>keeperBalance: {} ✓</div><div>totalBalance: {} ✓</div><div>maxGasPerPosition: {} ✓</div><div>dataLengthRestrictions: {} ✓</div><div>decreasingGasByReason: {} ✓</div><div>whiteBlackList: 0x00 ✓</div></div>
Libraries	<div>PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✓</div> <div>TokenTransfersLibrary: 0xD1869a3C77C17D185c9a5e8904e0e4867e5EB1D9 ✓</div> <div>Errors: 0xBC1b24A665EF6dfa9B712BFbc4921a90E313f0A6 ✓</div>
Deploy Scripts	<div>deploy/core/KeeperRewardDistributor.deploy.js</div> <div>tasks/core/KeeperRewardDistributor/KeeperRewardDistributor.deploy.js</div>
Deploy Configs	<div>config/arbitrumOne/generalConfig.json</div>



LimitOrderLibrary Contract

LimitOrderLibrary Contract Information Summary	
Deployed	0x7Bb2c5E217356104CBEC9Eb51097Cc5cBC3a1D2b (Library)
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None
Storage	None
Libraries	PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✓ TokenTransfersLibrary: 0xD1869a3C77C17D185c9a5e8904e0e4867e5EB1D9 ✓ Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/libraries/LimitOrderLibrary.deploy.js tasks/core/libraries/LimitOrderLibrary/LimitOrderLibrary.deploy.js
Deploy Configs	None



LimitOrderManager Contract

	LimitOrderManager Contract Information Summary
Deployed	0x97f254E6eD709D41985C96280D20c36D3b9E0400
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	TransparentUpgradeableProxy ✓
Input params (initialize)	<div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>_primexDNS: 0x893047ea492659418501e3b5868aBe75468e2EB6 ✓</div><div>_pm: 0x86890E30cE9E1e13Db5560BbEb435c55567Af1cd ✓</div><div>_traderBalanceVault: 0xc08FFBBA8c5f42beb7e6dd29142cC61855a3076B ✓</div><div>_swapManager: 0xAee4251f9a277016653B07f319a09f844688e605 ✓</div><div>_whiteBlacklist: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✓</div></div>
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>_status: 1 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>orders: [...abbreviated...] ✓</div><div>ordersId: 81 ✓</div><div>orderIndexes: {...abbreviated...} ✓</div><div>traderOrderIndexes: {...abbreviated...} ✓</div><div>traderOrderIds: {...abbreviated...} ✓</div><div>bucketOrderIndexes: {...abbreviated...} ✓</div><div>bucketOrderIds: {...abbreviated...} ✓</div><div>openConditions: {...abbreviated...} ✓</div><div>closeConditions: {...abbreviated...} ✓</div><div>registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>traderBalanceVault: 0xc08FFBBA8c5f42beb7e6dd29142cC61855a3076B ✓</div><div>primexDNS: 0x893047ea492659418501e3b5868aBe75468e2EB6 ✓</div><div>pm: 0x86890E30cE9E1e13Db5560BbEb435c55567Af1cd ✓</div><div>swapManager: 0xbE3de856EB22bf6EFA03DD55e65DF22bA212e6Db ✓</div><div>whiteBlackList: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✓</div></div>
Libraries	None
Deploy Scripts	<div><div>deploy/core/LimitOrderManager.deploy.js</div><div>tasks/core/LimitOrderManager/limitOrderManager.deploy.js</div></div>
Deploy Configs	None

The proxy contract's owner is the contract `PrimexProxyAdmin` (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).



LimitOrderManager Implementation Contract

	LimitOrderManager (Implementation) Contract Information Summary
Deployed	0xA370d50403F04dCB316eACAAbCa343DfE51E419A
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>_status: 0 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>orders: [] ✓</div><div>ordersId: 0 ✓</div><div>orderIndexes: {} ✓</div><div>traderOrderIndexes: {} ✓</div><div>traderOrderIds: {} ✓</div><div>bucketOrderIndexes: {} ✓</div><div>bucketOrderIds: {} ✓</div><div>openConditions: {} ✓</div><div>closeConditions: {} ✓</div><div>registry: 0x00 ✓</div><div>traderBalanceVault: 0x00 ✓</div><div>primexDNS: 0x00 ✓</div><div>pm: 0x00 ✓</div><div>swapManager: 0x00 ✓</div><div>whiteBlackList: 0x00 ✓</div></div>
Libraries	<div>PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✓</div> <div>TokenTransfersLibrary: 0xD1869a3C77C17D185c9a5e8904e0e4867e5EB1D9 ✓</div> <div>LimitOrderLibrary: 0x7Bb2c5E217356104CBEc9Eb51097Cc5cBC3a1D2b ✓</div> <div>Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓</div>
Deploy Scripts	<div>deploy/core/LimitOrderManager.deploy.js</div> <div>tasks/core/LimitOrderManager/limitOrderManager.deploy.js</div>
Deploy Configs	None



LimitPriceCOM Contract

LimitPriceCOM Contract Information Summary	
Deployed	0xB8Ff80f9B6a3976aC37aC870b8be80E26873cC23
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	<div><div>_primexDNS: 0x893047ea492659418501e3b5868aBe75468e2EB6 ✓</div><div>_priceOracle: 0x156e2fC8e1906507412BEeEB6640Bf999a1Ea76b ✓</div><div>_pm: 0x86890E30cE9E1e13Db5560BbEb435c55567Af1cd ✓</div></div>
Storage	None
Libraries	<div><div>PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✓</div><div>LimitOrderLibrary: 0x7Bb2c5E217356104CBEc9Eb51097Cc5cBC3a1D2b ✓</div><div>Errors: 0xBC1b24A665EF6dfa9B712BFbc4921a90E313f0A6 ✓</div></div>
Deploy Scripts	<div><div>deploy/core/ConditionalManagers/LimitPriceCOM.deploy.js</div><div>tasks/core/conditionalManagers/LimitPriceCOM/LimitPriceCOM.deploy.js</div></div>
Deploy Configs	None



LiquidityMiningRewardDistributor Contract

	LiquidityMiningRewardDistributor Contract Information Summary
Deployed	0xB60Dda2873F789185e33E03f8f75A65a8D2d236d
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	TransparentUpgradeableProxy ✓
Input params (initialize)	<div><div>_primexDNS: 0x893047ea492659418501e3b5868aBe75468e2EB6 ✓</div><div>_pmx: 0xA533f744B179F2431f5395978e391107DC76e103 ✓</div><div>_traderBalanceVault: 0xc08FFBBA8c5f42beb7e6dd29142cC61855a3076B ✓</div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>_treasury: 0x63464916388dAB4f2e80551250335490C4518D37 ✓</div><div>_reinvestmentRate: 333300000000000000 ✓</div><div>_reinvestmentDuration: 2592000 ✓</div><div>_whiteBlackList: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✓</div></div>
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_status: 1 ✓</div><div>__gap: [] ✓</div><div>primexDNS: 0x893047ea492659418501e3b5868aBe75468e2EB6 ✓</div><div>pmx: 0xA533f744B179F2431f5395978e391107DC76e103 ✓</div><div>traderBalanceVault: 0xc08FFBBA8c5f42beb7e6dd29142cC61855a3076B ✓</div><div>registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>treasury: 0x63464916388dAB4f2e80551250335490C4518D37 ✓</div><div>reinvestmentRate: 333300000000000000 ✓</div><div>reinvestmentDuration: 2592000 ✓</div><div>extraRewards: {...abbreviated...} ✓</div><div>whiteBlackList: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✓</div><div>buckets: {...abbreviated...} ✓</div></div>
Libraries	None
Deploy Scripts	deploy/core/LiquidityMiningRewardDistributor.deploy.js tasks/core/LiquidityMiningRewardDistributor/LiquidityMiningRewardDistributor.js
Deploy Configs	config/arbitrumOne/generalConfig.json

The proxy contract's owner is the contract `PrimexProxyAdmin` (`0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147`).



LiquidityMiningRewardDistributor Implementation Contract

LiquidityMiningRewardDistributor (Implementation) Contract Information Summary	
Deployed	0xf40f76844C2C2a4c5A04313f655eBeE06b712C31
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_status: 0 ✓</div><div>__gap: [] ✓</div><div>primexDNS: 0x00 ✓</div><div>pmx: 0x00 ✓</div><div>traderBalanceVault: 0x00 ✓</div><div>registry: 0x00 ✓</div><div>treasury: 0x00 ✓</div><div>reinvestmentRate: 0 ✓</div><div>reinvestmentDuration: 0 ✓</div><div>extraRewards: {} ✓</div><div>whiteBlackList: 0x00 ✓</div><div>buckets: {} ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div>deploy/core/LiquidityMiningRewardDistributor.deploy.js</div> <div>tasks/core/LiquidityMiningRewardDistributor/LiquidityMiningRewardDistributor.js</div>
Deploy Configs	config/arbitrumOne/generalConfig.json



MediumTimelockAdmin Contract

	MediumTimelockAdmin Contract Information Summary
Deployed	0x357070E9f9Ed972135e83a83384e1D2deDdDc97f
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	<div><div>_minDelay: 172800 ✓</div><div>_proposers: [0x9bC2D435bdCA131ec0F48C6589dD3F924AeBB9B8] ✓</div><div>_executors: [0x9bC2D435bdCA131ec0F48C6589dD3F924AeBB9B8] ✓</div><div>_admin: 0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 ✓</div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div></div>
Storage	<div><div>_roles: {...abbreviated...} ✓</div><div>_timestamps: {...abbreviated...} ✓</div><div>_minDelay: 172800 ✓</div><div>_paused: false ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div><div>deploy/core/PrimexTimelocks.deploy.js</div><div>tasks/core/PrimexTimelock/PrimexTimelock.deploy.js</div></div>
Deploy Configs	<div><div>config/arbitrumOne/generalConfig.json</div></div>



PositionLibrary Contract

PositionLibrary Contract Information Summary	
Deployed	0xEDB5D3462E23089F27C6C2D322184182149e1285 (Library)
Verified	No, by Arbiscan ❌
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✔️
Proxy	No ✔️
Input params (constructor)	None
Storage	None
Libraries	PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✔️ TokenTransfersLibrary: 0xD1869a3C77C17D185c9a5e8904e0e4867e5EB1D9 ✔️ LimitOrderLibrary: 0x7Bb2c5E217356104CBEc9Eb51097Cc5cBC3a1D2b ✔️ Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✔️
Deploy Scripts	deploy/core/libraries/PositionLibrary.deploy.js tasks/core/libraries/PositionLibrary/PositionLibrary.deploy.js
Deploy Configs	None

Note: While the contract’s bytecode is not yet verified by Arbiscan, it matches the compiled artifacts’ bytecode of the project’s repository.



PositionManager Contract



PositionManager Implementation Contract

PositionManager (Implementation) Contract Information Summary	
Deployed	0xf61837151FbccB01De6851c0154591383a8B696f
Verified	No, by Arbiscan ❌
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✔️
Proxy	No ✔️
Input params (constructor)	None (Disabled) ✔️
Storage	_initialized: 255 ✔️ _initializing: false ✔️ _status: 0 ✔️ __gap: [] ✔️ __gap: [] ✔️ _paused: false ✔️ __gap: [] ✔️ __gap: [] ✔️ maxPositionSize: {} ✔️ defaultOracleTolerableLimit: 0 ✔️ securityBuffer: 0 ✔️ maintenanceBuffer: 0 ✔️ oracleTolerableLimits: {} ✔️ oracleTolerableLimitsMultiplier: 0 ✔️ positions: [] ✔️ positionsId: 0 ✔️ traderPositionIds: {} ✔️ bucketPositionIds: {} ✔️ closeConditions: {} ✔️ registry: 0x00 ✔️ traderBalanceVault: 0x00 ✔️ primexDNS: 0x00 ✔️ priceOracle: 0x00 ✔️ keeperRewardDistributor: 0x00 ✔️ spotTradingRewardDistributor: 0x00 ✔️ minPositionSize: 0 ✔️ minPositionAsset: 0x00 ✔️ positionIndexes: {} ✔️ traderPositionIndexes: {} ✔️ bucketPositionIndexes: {} ✔️ whiteBlacklist: 0x00 ✔️
Libraries	PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✔️ PositionLibrary: 0xEDB5D3462E23089F27C6C2D322184182149e1285 ✔️ TokenTransferLibrary: 0xD1869a3C77C17D185c9a5e8904e0e4867e5EB1D9 ✔️ Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✔️
Deploy Scripts	deploy/core/PositionManager.deploy.js tasks/core/PositionManager/positionManager.deploy.js
Deploy Configs	config/arbitrumOne/generalConfig.json

Note: While the contract's bytecode is not yet verified by Arbiscan, it matches the compiled artifacts' bytecode of the project's repository.



PriceOracle Contract

PriceOracle Contract Information Summary	
Deployed	0x156e2fC8e1906507412BEeEB6640Bf999a1Ea76b
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	TransparentUpgradeableProxy ✓
Input params (initialize)	<div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>_eth: 0x99ec76235f8a5A52611b0DA5F0C6B09e1dCD2C9e ✓</div></div>
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>eth: 0x99ec76235f8a5A52611b0DA5F0C6B09e1dCD2C9e ✓</div><div>gasPriceFeed: 0x00 ✗</div><div>pairPriceDrops: {...abbreviated...} ✓</div><div>oraclePriceDropFeeds: {...abbreviated...} ✓</div><div>chainLinkPriceFeeds: {...abbreviated...} ✓</div></div>
Libraries	None
Deploy Scripts	<div><div>deploy/core/PriceOracle.deploy.js</div><div>tasks/core/PriceOracle/priceOracle.deploy.js</div></div>
Deploy Configs	<div><div>config/arbitrumOne/addresses.json</div></div>

The proxy contract's owner is the contract PrimexProxyAdmin (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).

Status

The issue was acknowledged by Primex's team. The development team stated "gasPriceOracle in PriceOracle contract wasn't set intentionally because it is unnecessary on Arbitrum due to the fact that gas price is defined on the blockchain level and can't be manipulated".



PriceOracle Implementation Contract

PriceOracle (Implementation) Contract Information Summary	
Deployed	0x3A159B114b7aa6bA06BE84Dd1aa9E9ad82BF25a0
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>registry: 0x00 ✓</div><div>eth: 0x00 ✓</div><div>gasPriceFeed: 0x00 ✓</div><div>pairPriceDrops: {} ✓</div><div>oraclePriceDropFeeds: {} ✓</div><div>chainLinkPriceFeeds: {} ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div>deploy/core/PriceOracle.deploy.js</div> <div>tasks/core/PriceOracle/priceOracle.deploy.js</div>
Deploy Configs	<div>config/arbitrumOne/addresses.json</div>



PrimexDNS Contract

	PrimexDNS Contract Information Summary
Deployed	0x893047ea492659418501e3b5868aBe75468e2EB6
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	TransparentUpgradeableProxy ✓
Input params (initialize)	<div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>_pmx: 0xA533f744B179F2431f5395978e391107DC76e103 ✓</div><div>_treasury: 0x63464916388dAB4f2e80551250335490C4518D37 ✓</div><div>_delistingDelay: 15552000 ✓</div><div>_adminWithdrawalDelay: 15552000 ✓</div><div>_feeRateParams: [...abbreviated...] ✓</div></div>
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>delistingDelay: 15552000 ✓</div><div>adminWithdrawalDelay: 15552000 ✓</div><div>pmx: 0xA533f744B179F2431f5395978e391107DC76e103 ✓</div><div>treasury: 0x63464916388dAB4f2e80551250335490C4518D37 ✓</div><div>buckets: {...abbreviated...} ✓</div><div>dexes: {...abbreviated...} ✓</div><div>cmTypeToAddress: {...abbreviated...} ✓</div><div>dexAdapter: 0x1da9c104C517C7b4465c8Eef458Da0a6c61835Fe ✓</div><div>aavePool: 0x794a61358D6845594F94dc1DB02A252b5b4814aD ✓</div><div>feeRates: {...abbreviated...} ✓</div><div>dexesNames: [...abbreviated...] ✓</div><div>feeRestrictions: {...abbreviated...} ✓</div></div>
Libraries	None
Deploy Scripts	<div>deploy/core/PrimexDNS.deploy.js</div> <div>tasks/core/PrimexDNS/PrimexDNS.deploy.js</div>
Deploy Configs	<div>config/arbitrumOne/generalConfig.json</div>

The proxy contract's owner is the contract PrimexProxyAdmin (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).



PrimexDNS Implementation Contract

	PrimexDNS (Implementation) Contract Information Summary
Deployed	0xfdAe5BA060ebE7eB0D9dfa1d7Bd0870D6d03F35C
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>registry: 0x00 ✓</div><div>delistingDelay: 0 ✓</div><div>adminWithdrawalDelay: 0 ✓</div><div>pmx: 0x00 ✓</div><div>treasury: 0x00 ✓</div><div>buckets: {} ✓</div><div>dexes: {} ✓</div><div>cmTypeToAddress: {} ✓</div><div>dexAdapter: 0x00 ✓</div><div>aavePool: 0x00 ✓</div><div>feeRates: {} ✓</div><div>dexesNames: [] ✓</div><div>feeRestrictions: {} ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfa9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div>deploy/core/PrimexDNS.deploy.js</div> <div>tasks/core/PrimexDNS/PrimexDNS.deploy.js</div>
Deploy Configs	<div>config/arbitrumOne/generalConfig.json</div>



PrimexLens Contract

PrimexLens Contract Information Summary	
Deployed	0x3a5CAdB5eDF17876fD2518AEC3a4d804964aA89e
Verified	No, by Arbiscan ❌
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✔️
Proxy	No ✔️
Input params (constructor)	_takeProfitStopLossCCM: 0xBC55b10926dE09c0B911E49E61BAFAE55fDcC69b ✔️
Storage	None
Libraries	PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✔️ PositionLibrary: 0xEDB5D3462E23089F27C6C2D322184182149e1285 ✔️ LimitOrderLibrary: 0x7Bb2c5E217356104CBEc9Eb51097Cc5cBC3a1D2b ✔️ Errors: 0xBC1b24A665EF6dfa9B712BFbc4921a90E313f0A6 ✔️
Deploy Scripts	deploy/core/lens/PrimexLens.deploy.js tasks/core/lens/PrimexLens/primexLens.deploy.js
Deploy Configs	None

Note: While the contract’s bytecode is not yet verified by Arbiscan, it matches the compiled artifacts’ bytecode of the project’s repository.



PrimexPricingLibrary Contract

Info

RES-PRMX-ADR35

Data Validation

Acknowledged

PrimexPricingLibrary Contract Information Summary	
Deployed	0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA (Library)
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None
Storage	None
Libraries	TokenTransfersLibrary: 0xD1869a3C77C17D185c9a5e8904e0e4867e5EB1D9 ✓ Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/libraries/PrimexPricingLibrary.deploy.js tasks/core/libraries/PrimexPricingLibrary/PrimexPricingLibrary.deploy.js
Deploy Configs	None



PrimexProxyAdmin Contract

PrimexProxyAdmin Contract Information Summary	
Deployed	0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	ProxyAdmin ✓
Input params (constructor)	_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
Storage	_owner: 0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147 ✓
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/PrimexProxyAdmin.deploy.js tasks/core/PrimexProxyAdmin/PrimexProxyAdmin.deploy.js
Deploy Configs	None



PrimexUpkeep Contract

PrimexUpkeep Contract Information Summary	
Deployed	0xe21656D7e749299e4C635E089b8DE4C3dEa04A79
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	_positionManager: 0x86890E30cE9E1e13Db5560BbEb435c55567Af1cd ✓
	_limitOrderManager: 0x97f254E6eD709D41985C96280D20c36D3b9E0400 ✓
	_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
	_bestDexLens: 0x2295d405eaf7c4E21D1Ef751404c3020A079194b ✓
	_primexLens: 0x3a5CAdB5eDF17876fD2518AEC3a4d804964aA89e ✓
Storage	None
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/PrimexUpkeep.deploy.js tasks/core/PrimexUpkeep/PrimexUpkeep.deploy.js
Deploy Configs	None



PToken Contract

	PToken Contract Information Summary
Deployed	0x19E701663fE8DCA63525B377CCe28b5abfB69f8A
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_balances: {} ✓</div><div>_allowances: {} ✓</div><div>_totalSupply: 0 ✓</div><div>_name: "" ✓</div><div>_symbol: "" ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_status: 0 ✓</div><div>__gap: [] ✓</div><div>bucket: 0x00 ✓</div><div>interestIncreaser: 0x00 ✓</div><div>lenderRewardDistributor: 0x00 ✓</div><div>lockedDepositsIndexes: [] ✓</div><div>tokenDecimals: 0 ✓</div><div>lockedBalances: {} ✓</div><div>bucketsFactory: 0x00 ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div>deploy/core/PTokenImplementation.deploy.js</div> <div>tasks/core/factories/PTokensFactory/PTokenImplementation.deploy.js</div>
Deploy Configs	None



PTokensFactory Contract

PTokensFactory Contract Information Summary	
Deployed	0x8e4C95b50DC3411e9dd0E8c98aE5dd811192BC9A
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	UpgradeableBeacon ✓
Input params (constructor)	_ptokenImplementation: 0x19E701663fE8DCA63525B377CCe28b5abfB69f8A ✓
Storage	_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
	_owner: 0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147 ✓
	_implementation: 0x19E701663fE8DCA63525B377CCe28b5abfB69f8A ✓
	bucketsFactory: 0x4e6f7372bCE4083c779c17B240A94dc2EA57AE67 ✓
	registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
Libraries	Errors: 0xBC1b24A665EF6dfa9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/factories/PTokensFactory.deploy.js tasks/core/factories/PTokensFactory/PTokensFactory.deploy.js
Deploy Configs	None

The proxy contract's owner is the contract PrimexProxyAdmin (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).



P-USDC Contract

P-USDC Contract Information Summary	
Deployed	0x28C459CDC4C511A62DFE2c2A97013093335396FA
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	BeaconProxy ✓
Input params (initialize)	<div><div>_name: Primex pToken USD Coin ✓</div><div>_symbol: P-USDC ✓</div><div>_decimals: 6 ✓</div><div>_bucketsFactory: 0x4e6f7372bCE4083c779c17B240A94dc2EA57AE67 ✓</div></div>
Storage	<div><div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_balances: {...abbreviated...} ✓</div><div>_allowances: {...abbreviated...} ✓</div><div>_totalSupply: 0 ✓</div><div>_name: "Primex pToken USD Coin" ✓</div><div>_symbol: "P-USDC" ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_status: 1 ✓</div><div>__gap: [] ✓</div></div><div><div>bucket: 0xA4E15B84fc22EE720862bEcBa1fAc3D1008BAeda ✗</div><div>interestIncreaser: 0x00 ✓</div><div>lenderRewardDistributor: 0x00 ✗</div><div>lockedDepositsIndexes: [] ✓</div><div>tokenDecimals: 6 ✓</div><div>lockedBalances: {...abbreviated...} ✓</div><div>bucketsFactory: 0x4e6f7372bCE4083c779c17B240A94dc2EA57AE67 ✓</div></div></div>
Libraries	None
Deploy Scripts	tasks/core/Bucket/bucket.deploy.js
Deploy Configs	None

Issues:

1. This contract references a test bucket. Test smart contracts should not be referenced or used on mainnet.

Status

The issue was acknowledged by Primex's team. The development team stated "A proposal was created and executed for deprecating the test buckets, and fully functional ones have been launched with the correct parameters."



P-WETH Contract

P-WETH Contract Information Summary	
Deployed	0x029899bED953F34Fc8630733cf62a32F18BE1988
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	BeaconProxy ✓
Input params (initialize)	<div><div>_name: Primex pToken Wrapped Ether ✓</div><div>_symbol: P-WETH ✓</div><div>_decimals: 18 ✓</div><div>_bucketsFactory: 0x4e6f7372bCE4083c779c17B240A94dc2EA57AE67 ✓</div></div>
Storage	<div><div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_balances: {...abbreviated...} ✓</div><div>_allowances: {...abbreviated...} ✓</div><div>_totalSupply: 0 ✓</div><div>_name: "Primex pToken Wrapped Ether" ✓</div><div>_symbol: "P-WETH" ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_status: 1 ✓</div><div>__gap: [] ✓</div></div><div><div>bucket: 0x80629d14f390b1BdAfA45b5eE4f3c1FD026DdD10 ✗</div><div>interestIncreaser: 0x00 ✓</div><div>lenderRewardDistributor: 0x00 ✗</div><div>lockedDepositsIndexes: [] ✓</div><div>tokenDecimals: 18 ✓</div><div>lockedBalances: {...abbreviated...} ✓</div><div>bucketsFactory: 0x4e6f7372bCE4083c779c17B240A94dc2EA57AE67 ✓</div></div></div>
Libraries	None
Deploy Scripts	tasks/core/Bucket/bucket.deploy.js
Deploy Configs	None

Issues:

1. This contract references a test bucket. Test smart contracts should not be referenced or used on mainnet.

Status

The issue was acknowledged by Primex's team. The development team stated "A proposal was created and executed for deprecating the test buckets, and fully functional ones have been launched with the correct parameters."



ReferralProgram Contract

	ReferralProgram Contract Information Summary
Deployed	0xF7fDC224b507fcB3DC67DfD68c70bb6228f9289A
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	TransparentUpgradeableProxy ✓
Input params (initialize)	_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>referrerOf: {...abbreviated...} ✓</div><div>referralsOf: {...abbreviated...} ✓</div><div>referrers: [...abbreviated...] ✓</div><div>alreadyReferrer: {...abbreviated...} ✓</div></div>
Libraries	None
Deploy Scripts	<div>deploy/core/referralProgram/ReferralProgram.deploy.js</div> <div>tasks/referral/ReferralProgram/referralProgram.deploy.js</div>
Deploy Configs	<div>config/arbitrumOne/generalConfig.json</div>

The proxy contract's owner is the contract PrimexProxyAdmin (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).



ReferralProgram Implementation Contract

	ReferralProgram (Implementation) Contract Information Summary
Deployed	0x9E1b262f26D8ffa6C0Cc4361854Ff766bf03f124
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>registry: 0x00 ✓</div><div>referrerOf: {} ✓</div><div>referralsOf: {} ✓</div><div>referrers: [] ✓</div><div>alreadyReferrer: {} ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfa9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div>deploy/core/referralProgram/ReferralProgram.deploy.js</div> <div>tasks/referral/ReferralProgram/referralProgram.deploy.js</div>
Deploy Configs	<div>config/arbitrumOne/generalConfig.json</div>



PrimexRegistry Contract

PrimexRegistry Contract Information Summary	
Deployed	0x4197CA290b8c5C2F0932032F1166B49c70e2d941
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None
Storage	<code>_roles: {...abbreviated...}</code> ✓ <code>isRoleForContractsOnly: {...abbreviated...}</code> ✓
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<code>deploy/core/Registry.deploy.js</code> <code>tasks/core/Registry/registry.deploy.js</code>
Deploy Configs	<code>config/arbitrumOne/addresses.json</code>

Assigned roles to contract addresses:

- BATCH_MANAGER_ROLE - BatchManager
- BIG_TIMELOCK_ADMIN - BigTimelockAdmin
- DEFAULT_ADMIN_ROLE - BigTimelockAdmin
- EMERGENCY_ADMIN - 0x1F4eB13d269D8d6Ab78B43125D0d9174531066eb (Trusted EOA)
- EMERGENCY_ADMIN - 0x3172516876170F3dbF6D1d133564Ad0835dC7F15 (Trusted EOA)
- EMERGENCY_ADMIN - 0x591Ba6a8cc1071FB715DEd16153C8BD4b86206C (Trusted EOA)
- EMERGENCY_ADMIN - 0x6CCA53446A228053f6ce9B0233B92A80336221EE (Trusted EOA)
- EMERGENCY_ADMIN - 0x73FD3C3f97a8C09E02DEd1531E7Eb8C2fafCcce1 (Trusted EOA)
- EMERGENCY_ADMIN - 0xBe0Fa24F3F1aD7ca46b28BD13d5de22211630585 (Trusted EOA)
- EMERGENCY_ADMIN - 0xbeB650aE23b83c4eE8FF96E25CA9C82A51f17571 (Trusted EOA)
- EMERGENCY_ADMIN - 0xc6C104DB1b744Eb247940BDBBF91172F29CBD67f (Trusted EOA)
- GUARDIAN_ADMIN - 0x133A79C943caA1Ead223Fd550d0C56ea98F14576 (Primex Multisig)
- LOM_ROLE - LimitOrderManager
- MEDIUM_TIMELOCK_ADMIN - BigTimelockAdmin
- MEDIUM_TIMELOCK_ADMIN - MediumTimelockAdmin
- NO_FEE_ROLE - Primex Bucket WETH

- NO_FEE_ROLE - Primex Bucket USDC
- NO_FEE_ROLE - Primex Bucket USDC.e
- NO_FEE_ROLE - Primex Bucket WBTC
- NO_FEE_ROLE - Primex Bucket USDT
- NO_FEE_ROLE - Primex Bucket ARB
- NO_FEE_ROLE - Bucket-USDC (Test bucket)
- NO_FEE_ROLE - Bucket-WETH (Test bucket)
- NO_FEE_ROLE - LimitOrderManager
- PM_ROLE - PositionManager
- SMALL_TIMELOCK_ADMIN - BigTimelockAdmin
- SMALL_TIMELOCK_ADMIN - SmallTimelockAdmin
- TRUSTED_TOLERABLE_LIMIT_ROLE - 0x3140C6e50984C5028a5022254F34A6B70B750835 (Trusted EOA)
- VAULT_ACCESS_ROLE - ActivityRewardDistributor
- VAULT_ACCESS_ROLE - BatchManager
- VAULT_ACCESS_ROLE - LimitOrderManager
- VAULT_ACCESS_ROLE - LiquidityMiningRewardDistributor
- VAULT_ACCESS_ROLE - PositionManager
- VAULT_ACCESS_ROLE - SpotTradingRewardDistributor
- VAULT_ACCESS_ROLE - SwapManager
- VAULT_ACCESS_ROLE - Primex Bucket WETH
- VAULT_ACCESS_ROLE - Primex Bucket USDC
- VAULT_ACCESS_ROLE - Primex Bucket USDC.e
- VAULT_ACCESS_ROLE - Primex Bucket WBTC
- VAULT_ACCESS_ROLE - Primex Bucket USDT
- VAULT_ACCESS_ROLE - Primex Bucket ARB

Issues:

1. This contract references a test bucket. Test smart contracts should not be referenced or used on mainnet.

Status

The issue was acknowledged by Primex's team. The development team stated "A proposal was created and executed, and the test buckets' addresses were removed."



Reserve Contract

Reserve Contract Information Summary	
Deployed	0x0a49EbdC20DfBcD90A53b4BA4C74a5DBfb42BECa
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	TransparentUpgradeableProxy ✓
Input params (initialize)	<div><div>_dns: 0x893047ea492659418501e3b5868aBe75468e2EB6 ✓</div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div></div>
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>_status: 1 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>dns: 0x893047ea492659418501e3b5868aBe75468e2EB6 ✓</div><div>registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>transferRestrictions: {...abbreviated...} ✓</div></div>
Libraries	None
Deploy Scripts	<div><div>deploy/core/Reserve.deploy.js</div><div>tasks/core/Reserve/Reserve.deploy.js</div></div>
Deploy Configs	<div><div>config/arbitrumOne/generalConfig.json</div></div>

The proxy contract's owner is the contract PrimexProxyAdmin (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).



Reserve Implementation Contract

	Reserve (Implementation) Contract Information Summary
Deployed	0xb7b5B459d7285B2ED4DfD83a3d7172d11274701c
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>_status: 0 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>dns: 0x00 ✓</div><div>registry: 0x00 ✓</div><div>transferRestrictions: {} ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div>deploy/core/Reserve.deploy.js</div> <div>tasks/core/Reserve/Reserve.deploy.js</div>
Deploy Configs	config/arbitrumOne/generalConfig.json



SmallTimelockAdmin Contract

SmallTimelockAdmin Contract Information Summary	
Deployed	0xA37a23C5Eb527985caae2a710a0F0De7C49ACb9d
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	<div><div>_minDelay: 43200 ✓</div><div>_proposers: [0x9bC2D435bdCA131ec0F48C6589dD3F924AeBB9B8] ✓</div><div>_executors: [0x9bC2D435bdCA131ec0F48C6589dD3F924AeBB9B8] ✓</div><div>_admin: 0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 ✓</div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div></div>
Storage	<div><div>_roles: {...abbreviated...} ✓</div><div>_timestamps: {...abbreviated...} ✓</div><div>_minDelay: 43200 ✓</div><div>_paused: false ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div><div>deploy/core/PrimexTimelocks.deploy.js</div><div>tasks/core/PrimexTimelock/PrimexTimelock.deploy.js</div></div>
Deploy Configs	<div><div>config/arbitrumOne/generalConfig.json</div></div>



Acknowledged

The proxy contract's owner is the contract `PrimexProxyAdmin` (`0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147`).

The issue was acknowledged by Primex's team. The development team stated "dns is not used in SpotTradingRewardDistributor and was occasionally left in its storage. It

should be removed in the future version of SpotTradingRewardDistributor that will be deployed together with PMX token."



SpotTradingRewardDistributor Implementation Contract

Info

RES-PRMX-ADR49

Data Validation

Acknowledged

SpotTradingRewardDistributor (Implementation) Contract Information Summary	
Deployed	0x0e83F7994C55A6ba8546508c34536d9EB19C7f77
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>_status: 0 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>registry: 0x00 ✓</div><div>dns: 0x00 ✓</div><div>periodDuration: 0 ✓</div><div>initialPeriodTimestamp: 0 ✓</div><div>rewardPerPeriod: 0 ✓</div><div>pmx: 0x00 ✓</div><div>priceOracle: 0x00 ✓</div><div>treasury: 0x00 ✓</div><div>traderBalanceVault: 0x00 ✓</div><div>undistributedPMX: 0 ✓</div><div>periods: {} ✓</div><div>periodsWithTraderActivity: {} ✓</div></div>
Libraries	<div>PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✓</div> <div>Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓</div>
Deploy Scripts	<div>deploy/core/SpotTradingRewardDistributor.deploy.js</div> <div>tasks/core/SpotTradingRewardDistributor/SpotTradingRewardDistributor.deploy</div>
Deploy Configs	None



SwapManager Contract

	SwapManager Contract Information Summary
Deployed	0xbE3de856EB22bf6EFA03DD55e65DF22bA212e6Db
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	<div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>_primexDNS: 0x893047ea492659418501e3b5868aBe75468e2EB6 ✓</div><div>_traderBalanceVault: 0xc08FFBBA8c5f42beb7e6dd29142cC61855a3076B ✓</div><div>_priceOracle: 0x156e2fC8e1906507412BEeEB6640Bf999a1Ea76b ✓</div><div>_whiteBlackList: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✓</div></div>
Storage	<div><div>_status: 1 ✓</div><div>_paused: false ✓</div></div>
Libraries	<div><div>PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✓</div><div>TokenTransfersLibrary: 0xD1869a3C77C17D185c9a5e8904e0e4867e5EB1D9 ✓</div><div>Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓</div></div>
Deploy Scripts	<div><div>deploy/core/SwapManager.deploy.js</div><div>tasks/core/SwapManager/swapManager.deploy.js</div></div>
Deploy Configs	None



TakeProfitStopLossCCM Contract

	TakeProfitStopLossCCM Contract Information Summary
Deployed	0xBC55b10926dE09c0B911E49E61BAFAE55fDcC69b
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params	_primexDNS: 0x893047ea492659418501e3b5868aBe75468e2EB6 ✓
(constructor)	_priceOracle: 0x156e2fC8e1906507412BEeEB6640Bf999a1Ea76b ✓
Storage	None
Libraries	PrimexPricingLibrary: 0x2B7d48B5E93178A60fD758cfAc793f04A681F8EA ✓ PositionLibrary: 0xEDB5D3462E23089F27C6C2D322184182149e1285 ✓ Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	deploy/core/ConditionalManagers/TakeProfitStopLossCCM.deploy.js tasks/core/conditionalManagers/TakeProfitStopLossCCM/TakeProfitStopLossCCM.
Deploy Configs	None



TokenTransfersLibrary Contract

TokenTransfersLibrary Contract Information Summary	
Deployed	0xD1869a3C77C17D185c9a5e8904e0e4867e5EB1D9 (Library)
Verified	No, by Arbiscan ❌
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✔️
Proxy	No ✔️
Input params (constructor)	None
Storage	None
Libraries	Errors: 0xBC1b24A665EF6dfa9B712BFbc4921a90E313f0A6 ✔️
Deploy Scripts	deploy/core/libraries/TokenTransfersLibrary.deploy.js tasks/core/libraries/TokenTransfersLibrary/TokenTransfersLibrary.deploy.js
Deploy Configs	None

Note: While the contract’s bytecode is not yet verified by Arbiscan, it matches the compiled artifacts’ bytecode of the project’s repository.



TraderBalanceVault Contract

TraderBalanceVault Contract Information Summary	
Deployed	0xc08FFBBA8c5f42beb7e6dd29142cC61855a3076B
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	TransparentUpgradeableProxy ✓
Input params (initialize)	<div><div>_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>_whiteBlacklist: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✓</div></div>
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>_status: 1 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>balances: {...abbreviated...} ✓</div><div>whiteBlacklist: 0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904 ✓</div></div>
Libraries	None
Deploy Scripts	<div><div>deploy/core/TraderBalanceVault.deploy.js</div><div>tasks/core/TraderBalanceVault/traderBalanceVault.deploy.js</div></div>
Deploy Configs	None

The proxy contract's owner is the contract PrimexProxyAdmin (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).



TraderBalanceVault Implementation Contract

	TraderBalanceVault (Implementation) Contract Information Summary
Deployed	0x3c0d3f52E9aa1c9645a05452F45C064a0F9569BF
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>_status: 0 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>registry: 0x00 ✓</div><div>balances: {} ✓</div><div>whiteBlacklist: 0x00 ✓</div></div>
Libraries	<div>TokenTransfersLibrary: 0xD1869a3C77C17D185c9a5e8904e0e4867e5EB1D9 ✓</div> <div>Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓</div>
Deploy Scripts	<div>deploy/core/TraderBalanceVault.deploy.js</div> <div>tasks/core/TraderBalanceVault/traderBalanceVault.deploy.js</div>
Deploy Configs	None



Treasury Contract

	Treasury Contract Information Summary
Deployed	0x63464916388dAB4f2e80551250335490C4518D37
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	TransparentUpgradeableProxy ✓
Input params (initialize)	_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>_status: 1 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>spenders: {...abbreviated...} ✓</div><div>initialTimestamp: 1698849318 ✓</div><div>registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div></div>
Libraries	None
Deploy Scripts	<div>deploy/core/Treasury.deploy.js</div> <div>tasks/core/Treasury/Treasury.deploy.js</div>
Deploy Configs	<div>config/arbitrumOne/generalConfig.json</div>

The proxy contract's owner is the contract PrimexProxyAdmin (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).



Treasury Implementation Contract

	Treasury (Implementation) Contract Information Summary
Deployed	0xbfF01d7C9F3Edc50556d8f622a65176c2227F2CC
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>_paused: false ✓</div><div>__gap: [] ✓</div><div>_status: 0 ✓</div><div>__gap: [] ✓</div><div>__gap: [] ✓</div><div>spenders: {} ✓</div><div>initialTimestamp: 0 ✓</div><div>registry: 0x00 ✓</div></div>
Libraries	<div>TokenTransfersLibrary: 0xD1869a3C77C17D185c9a5e8904e0e4867e5EB1D9 ✓</div> <div>Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓</div>
Deploy Scripts	<div>deploy/core/Treasury.deploy.js</div> <div>tasks/core/Treasury/Treasury.deploy.js</div>
Deploy Configs	config/arbitrumOne/generalConfig.json



WhiteBlackList Contract

	WhiteBlackList Contract Information Summary
Deployed	0xF90aCbeF0eDDdd6854c96137f416a5b7dD67D904
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	TransparentUpgradeableProxy ✓
Input params (initialize)	_registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓
Storage	<div><div>_initialized: 1 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>accessList: {...abbreviated...} ✓</div><div>registry: 0x4197CA290b8c5C2F0932032F1166B49c70e2d941 ✓</div><div>__gap: [] ✓</div></div>
Libraries	None
Deploy Scripts	<div>deploy/core/WhiteBlackList.deploy.js</div> <div>tasks/core/WhiteBlackList/whiteBlackList.deploy.js</div>
Deploy Configs	None

The proxy contract's owner is the contract PrimexProxyAdmin (0x7E10B5Dc9a397CB4d979528302ce6C4ae74D3147).

Contract addresses on whitelist:

- 0x54946a3d118453B6176CeE74490849Fb294d9AF6 - (Deprecated BatchManager version)
- 0x7bE64C951880224184F0191Fe795C0416F4ADcbB - (Deprecated PrimexUpkeep version)
- 0xAee4251f9a277016653B07f319a09f844688e605 - (Deprecated SwapManager version)
- ActivityRewardDistributor
- BatchManager
- BigTimelockAdmin
- BucketsFactory
- Bucket-USDC (Test bucket)
- Bucket-WETH (Test bucket)
- DebtToken ARB
- DebtToken USDC
- DebtToken USDC.e

- DebtToken USDT
- DebtToken WBTC
- DebtToken WETH
- DebtTokensFactory
- debt-USDC
- debt-WETH
- DexAdapter
- KeeperRewardDistributor
- LimitOrderManager
- LiquidityMiningRewardDistributor
- MediumTimelockAdmin
- PositionManager
- Primex Bucket ARB
- Primex Bucket USDC
- Primex Bucket USDC.e
- Primex Bucket USDT
- Primex Bucket WBTC
- Primex Bucket WETH
- PrimexRegistry
- PrimexUpkeep
- PToken ARB
- PToken USDC
- PToken USDC.e
- PToken USDT
- PToken WBTC
- PToken WETH
- PTokensFactory
- P-USDC
- P-WETH
- Reserve
- SmallTimelockAdmin
- SpotTradingRewardDistributor

- SwapManager
- TraderBalanceVault
- Treasury

Contract addresses on blacklist:

- None

Issues:

1. This contract references a test bucket. Test smart contracts should not be referenced or used on mainnet.
2. This contract references older or deprecated versions of other smart contracts. These references should be removed.

Status

The issue was acknowledged by Primex's team. The development team stated "A proposal was created and executed, and the test buckets, their P and Debt tokens, and deprecated versions of contracts were removed from Whitelist."



WhiteBlackList Implementation Contract

	WhiteBlackList (Implementation) Contract Information Summary
Deployed	0x4682192Abba8A9623be999cA2CB56526485E6ca2
Verified	Yes, by Arbiscan ✓
Deployer	0xC110b6e93a51ACF1f3DEd19c754789E7A2304F07 (Deployer) ✓
Proxy	No ✓
Input params (constructor)	None (Disabled) ✓
Storage	<div><div>_initialized: 255 ✓</div><div>_initializing: false ✓</div><div>__gap: [] ✓</div><div>accessList: {} ✓</div><div>registry: 0x00 ✓</div><div>__gap: [] ✓</div></div>
Libraries	Errors: 0xBC1b24A665EF6dfA9B712BFbc4921a90E313f0A6 ✓
Deploy Scripts	<div>deploy/core/WhiteBlackList.deploy.js</div> <div>tasks/core/WhiteBlackList/whiteBlackList.deploy.js</div>
Deploy Configs	None