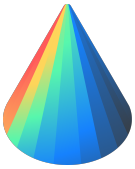
PUBLIC

Deployment Validation

of the Conic Protocol Smart Contracts

Feb 26, 2024

Produced for



CONIC

by

CHAINSECURITY

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1 Executive Summary

Dear Conic team,

We are pleased to deliver this Deployment Validation report for Conic Protocol. All security-relevant parameters of deployed contracts mentioned in the section Assessment Overview have been carefully examined. Additionally, the evolution of these parameters starting from the block of the deployment of each contract until Ethereum block # 19127196 has been reviewed.

All contracts have been deployed with secure parameters in accordance with our Security Audit.

It is worth to note that the custom *imbalance buffer* for the MIM token is currently not set to a secure value. All Curve pools including this token are, however, currently not in use. It is strongly advised that this imbalance buffer is changed to a reasonable value before any Curve pool containing MIM is added to any Conic pool again.

Sincerely yours,

ChainSecurity

2 Assessment Overview

In this section, we briefly describe the overall structure and scope of the engagement, including the code commit which is referenced throughout this report.

All deployed contracts specified in section Verified Contracts have been compared against their respective compiled version in the given repository. Additionally, all non-constant parameters have been checked and a security review of critical parameters has been performed. These checks have been validated up until **Ethereum block # 19127196** (31st of January 2024 02:56:11 PM +UTC). Changes in further blocks can be observed by viewing the critical events detailed in this document.

2.1 Scope

The assessment was performed on the source code files inside the `protocol` repository. The table below indicates the code versions relevant to this report and when they were received.

V	Date	Commit Hash	Note
1	29 January 2024	9db1acd46b52a63caebca1872e8d7118b25fc478	Deployed Version

For the solidity smart contracts, the compiler version `0.8.17` was chosen.

2.1.1 Excluded from scope

Any third-party smart contracts interacting with the system have not been verified.

2.2 Verified Contracts

Name	Address
Controller	0x2790ec478f150a98f5d96755601a26403df57eae
GovernanceProxy	0x38a40942cb275d941309d5af28b44d27576cdaaf
Bonding	0xc3d0d54aff5209118aed32253cc8ec5f417d6b9c
BondingHelper	0x447528a9f8423a68819b2da43e157205e26a6c07
DebtPool	0xcfe7ba85d916875779f9668b606b70051901d5ca
ChainlinkOracle	0xd918685c42a248ff471ef87e005718c4aafe04b7
CNCLockerV3	0x8b318d1d27ee1e4329d88f0c1e9bc3a1025b2c93
CNCMintingRebalancingRewardsHandler	0x53a2f0333f7320e862616211b0e44e4354077f9d
ConvexHandler	0xca432abffbe075cc3fa63a8fa9fb933d6f92d798
CurveAdapter	0x396b4ca70a59cf44f26c89e525212f9fc10e898c
CurveHandler	0xbcface618465f7d35ce82992fbe92e63c0529b13
CurveLPOracle	0x143f4fbc7b9d4235b2d8a74e905598da7e951be0
CurveRegistryCache	0x29e06bba53f73e271859214d9d87a1be636273c0
GenericOracle	0x865934bea4ffe1b51260a99455b1561bc3114e07
ConicEthPool	0x3367070ed152e2b715eef48d157685cf496f3543
WeightManager ETH	0xfc468d8100a453764a6c10ea7f80bc3bb4180846

LpToken (cncETH)	0x58649ec8add732ea710731b5cb37c99529a394d3
ConicPool USDC	0x80a3604977270b7ef2e637f9eb78ce1c3fa64316
WeightManager USDC	0x9c323a3b948098b411f44b55779288f01116f7c4
LpToken (cncUSDC)	0xd02bcdbe1d7790bdc4e1c365bff8269d8f5e035e
ConicPool crvUSD	0x89dc3e9d493512f6cfb923e15369ebfdde591988
WeightManager crvUSD	0x859cf09f2cc41bbc4a8b92bddf9c521bcca9b5ed
LpToken (cncCRVUSD)	0x9961bdbe8b7091e584c2bf9d0a160c583f564a8c
ConicDebtToken	0xfb588886715a263f69c1edd4e84e0ac1855e928a
EthZap	0x78036dc2785eacd76cca4ab6eac6b8105d0d42b3
FrxETHPriceOracle	0x7eea9d690162bc71bb81b9ba83b53d4ad376f21c
InflationManager	0x05f494e6554fab539873dcf92a4d2f6930105b16
LpTokenStaker	0xa5241560306298efb9ed80b87427e664ffff0cf9
OmnipoolHelper	0x7d32be9f74da4fa87eed0fbb199c0c22f34cf9e1
RewardManager ETH	0x71e1829c1f45e8a02931a4721719b8cd2fd1c558
RewardManager USDC	0x15c606c60afcfaa8e57777d947c40e9204119532
RewardManager crvUSD	0xbf65fadd5335380a7d5aa01f1676af22ee60f9ad

2.3 Other known contracts

Name	Address
CRV	0xd533a949740bb3306d119cc777fa900ba034cd52
CVX	0x4e3fbd56cd56c3e72c1403e103b45db9da5b9d2b
WETH	0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2
USDC	0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48
crvUSD	0xf939e0a03fb07f59a73314e73794be0e57ac1b4e
Curve.fi ETH/frxETH	0xa1f8a6807c402e4a15ef4eba36528a3fed24e577
frxeth-ng-f	0x9c3b46c0ceb5b9e304fcd6d88fc50f7dd24b31bc
stETH-ng-f	0x21e27a5e5513d6e65c4f830167390997aa84843a
Curve.fi ETH/stETH	0xdc24316b9ae028f1497c275eb9192a3ea0f67022
crvUSDUSDC-f	0x4dece678ceceb27446b35c672dc7d61f30bad69e
Pool for DAI/USDC/USDT	0xbebc44782c7db0a1a60cb6fe97d0b483032ff1c7
Curve.fi FRAX/USDC	0xdcef968d416a41cdac0ed8702fac8128a64241a2
crvUSDUSDT-f	0x390f3595bca2df7d23783dfd126427cceb997bf4
crvUSDFRAX-f	0x0cd6f267b2086bea681e922e19d40512511be538
GOVERNANCE	0xb27dc5f8286f063f11491c8f349053cb37718bea
VETO	0x5a2e9f203da3e6dd9d0c5f6366df4df98a54bc0c
conicfinance.eth	0xedaeb101f34d767f263c0fe6b8d494e3d071f0ba
CNCToken	0x9ae380f0272e2162340a5bb646c354271c0f5cfc
convexBooster	0xf403c135812408bfbe8713b5a23a04b3d48aae31

3 Limitations and use of report

Deployment assessments cannot uncover all existing mismatches; even an assessment in which no mismatches are found is not a guarantee of a correct setup. However, deployment assessments enable the discovery of unintended mismatches that were overlooked during development and areas where additional security measures are necessary. This is why we carry out a deployment validation aimed at determining all locations that mismatch the intended deployment. Within the customer-determined time frame, ChainSecurity has performed an assessment in order to discover as many inconsistencies as possible.

The focus of our assessment was limited to the deployed contracts defined in section Verified Contracts. We draw attention to the fact that due to inherent limitations in any software development process and software product, an inherent risk exists that even major failures or malfunctions can remain undetected. Further uncertainties exist in any software product or application used during the development, which itself cannot be free from any error or failures. These preconditions can have an impact on the system and/or functions and/or operation. We did not assess any underlying third-party infrastructure which adds further inherent risks as we rely on the correct execution of the included third-party technology stack itself. Report readers should also take into account that over the life cycle of any software, changes to the product itself or to the environment in which it is operated can have an impact leading to operational behaviors other than those initially determined in the business specification. Further, they should be aware that no security assessment was performed.

4 Deployment Validation

In the following, we list the validated bytecode and state of the system as described in Assessment Overview. The bytecode hash has been compared against the version of the code mentioned in Scope. The correctness of the state has been validated against the system specification and the intended parameters communicated by Conic. We list critical events and storage variables to monitor to determine if the validated state has changed since the block we used for our validation.

4.1 Bonding

Deployed at: `0xc3d0d54aff5209118aed32253cc8ec5f417d6b9c`

4.1.1 Bytecode comparison

Codehash: `0xe3dfbb57351bb559f0797d44ee861abcbc3f61d7d6b476db73b95f8b2254f140`

Bytecode Match except for Metadata hash

4.1.2 Validated State

Immutable name	Immutable value
cncLocker	CNCLockerV3 (0x8b318d1d27ee1e4329d88f0c1e9bc3a1025b2c93)
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)
crvUsdPool	ConicPool crvUSD (0x89dc3e9d493512f6cfb923e15369ebfdde591988)
underlying	crvUSD (0xf939e0a03fb07f59a73314e73794be0e57ac1b4e)
treasury	GOVERNANCE (0xb27dc5f8286f063f11491c8f349053cb37718bea)
totalNumberEpochs	0x0000000000000000000000000000000000000034
epochDuration	0x000000000000000000000000000000000093a80

- **_owner**
  - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **debtPool**
  - Value: DebtPool (0xcfe7ba85d916875779f9668b606b70051901d5ca)
- **cncStartPrice**
  - Value: `0x0000000000000000000000003e73362871420000`
  - ValueHint: `4.5 * 10^18`
- **epochPriceIncreaseFactor**
  - Value: `0x0000000000000000000000001bc16d674ec80000`
  - ValueHint: `2. * 10^18`
- **minBondingAmount**
  - Value: `0x0000000000000000000000003635c9adc5dea00000`

• ValueHint: `1. * 10^21`

4.1.3 Important Events to watch

1. `CncStartPriceSet(uint256)`
2. `DebtPoolSet(address)`
3. `MinBondingAmountSet(uint256)`
4. `OwnershipTransferred(address,address)`
5. `PriceIncreaseFactorSet(uint256)`

4.2 BondingHelper

Deployed at: `0x447528a9f8423a68819b2da43e157205e26a6c07`

4.2.1 Bytecode comparison

Codehash: `0x3efa0c8d3f7a3f201152cde9bd26d4ac8e4ab26b1985ddcd567f6a424846a1ca`

Bytecode Match except for Metadata hash

4.2.2 Validated State

Immutable name	Immutable value
bonding	Bonding (0xc3d0d54aff5209118aed32253cc8ec5f417d6b9c)

4.3 CNCLockerV3

Deployed at: `0x8b318d1d27ee1e4329d88f0c1e9bc3a1025b2c93`

4.3.1 Bytecode comparison

Codehash: `0xbd8a83c093af58a63cf98b2af429156a7a8dd4f2f6cfcc3d767d09fe04efa0e1`

Bytecode Match except for Metadata hash

4.3.2 Validated State

Immutable name	Immutable value
cncToken	CNCToken (0x9ae380f0272e2162340a5bb646c354271c0f5cfc)
airdropEndTime	0x000000000000000000000000000000000669f9167
merkleRoot	0x031d8a814267b7fe0af8f3eca2dc0a8a942719c5
crv	CRV (0xd533a949740bb3306d119cc777fa900ba034cd52)
cvx	CVX (0x4e3fbd56cd56c3e72c1403e103b45db9da5b9d2b)
treasury	GOVERNANCE (0xb27dc5f8286f063f11491c8f349053cb37718bea)
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **isShutdown**
    - Value: `0x00`

4.3.3 Important Events to watch

1. `OwnershipTransferred(address,address)`
2. `Shutdown()`

4.4 CNCMintingRebalancingRewardsHandler

Deployed at: `0x53a2f0333f7320e862616211b0e44e4354077f9d`

4.4.1 Bytecode comparison

Codehash: `0xaa668ae806d9eff8a40297041f302356ea1930c2186abd6d69bf23343e1b2e29`

Bytecode Match except for Metadata hash

4.4.2 Validated State

Immutable name	Immutable value
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)
cnc	CNCToken (0x9ae380f0272e2162340a5bb646c354271c0f5cfc)
previousRewardsHandler	0x4d080be793fb7934a920cbdd95010b893aeda545

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **_initialized**
    - Value: `0x01`
    - ValueHint: `1`
- **_initializing**
    - Value: `0x00`

4.4.3 Important Events to watch

1. `Initialized(uint8)`
2. `OwnershipTransferred(address,address)`

4.5 ChainlinkOracle

Deployed at: `0xd918685c42a248ff471ef87e005718c4aafe04b7`

4.5.1 Bytecode comparison

Codehash: `0x5ab94aaf27fd948f2ba1d0245dac2186be612942b1574a6c507748b10f9f4e6d`

Bytecode Match except for Metadata hash

4.5.2 Validated State

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **heartbeat**
    - Value: `0x0000000000000000000000000000000000015180`
    - ValueHint: `8.64 * 10^4`

4.5.3 Important Events to watch

1. `HeartbeatUpdated(uint256)`
2. `OwnershipTransferred(address,address)`

4.6 ConicDebtToken

Deployed at: `0xfb588886715a263f69c1edd4e84e0ac1855e928a`

4.6.1 Bytecode comparison

Codehash: `0x03397f1842c5d6daf5d09996412b832a9c1f9a8879fce842ecc7e95ccc21c210`

Bytecode Match except for Metadata hash

4.6.2 Validated State

Immutable name	Immutable value
merkleRootDebtToken	0xfdb344a15a6ab069853ab0a50844e0a9e95e99cd
merkleRootRefund	0xc2e29c865dea64727411df17e6b9723fcf08341a

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **debtPool**
    - Value: DebtPool (0xcfe7ba85d916875779f9668b606b70051901d5ca)

4.6.3 Important Events to watch

1. `DebtPoolSet(address)`

2. `OwnershipTransferred(address,address)`

4.7 ConicEthPool

Deployed at: `0x3367070ed152e2b715eef48d157685cf496f3543`

4.7.1 Bytecode comparison

Codehash: `0x1f4334b276caa69eedf427cd5fbc88f23046d469eb75eba8e0de66b3d0b71db9`

Bytecode Match except for Metadata hash

4.7.2 Validated State

Immutable name	Immutable value
underlying	WETH (0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2)
lpToken	LpToken (cncETH) (0x58649ec8add732ea710731b5cb37c99529a394d3)
rewardManager	RewardManager ETH (0x71e1829c1f45e8a02931a4721719b8cd2fd1c558)
weightManager	WeightManager ETH (0xfc468d8100a453764a6c10ea7f80bc3bb4180846)
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **pauseDuration**
    - Value: `0x0000000000000000000000000000000000007080`
    - ValueHint: `2.88 * 10^4`
- **maxDeviation**
    - Value: `0x00000000000000000000000000470de4df820000`
    - ValueHint: `2. * 10^16`
- **maxIdleCurveLpRatio**
    - Value: `0x000000000000000000000000000b1a2bc2ec50000`
    - ValueHint: `5. * 10^16`
- **isShutdown**
    - Value: `0x00`
- **depegThreshold**
    - Value: `0x00000000000000000000000006a94d74f430000`
    - ValueHint: `3. * 10^16`
- **emergencyRebalancingRewardsFactor**
    - Value: `0x0000000000000000000000008ac7230489e80000`

- ValueHint: `1. * 10^19`

4.7.3 Important Events to watch

1. `DepegThresholdUpdated(uint256)`
2. `EmergencyRebalancingRewardFactorUpdated(uint256)`
3. `MaxDeviationUpdated(uint256)`
4. `NewMaxIdleCurveLpRatio(uint256)`
5. `OwnershipTransferred(address,address)`
6. `PauseDurationSet(uint256)`
7. `Shutdown()`

4.8 ConicPool USDC

Deployed at: `0x80a3604977270b7ef2e637f9eb78ce1c3fa64316`

4.8.1 Bytecode comparison

Codehash: `0xfff8deb6daf930725692b286803c2f99beeb472bb2c805e58d6f42f6a52c074f`

Bytecode Match except for Metadata hash

4.8.2 Validated State

Immutable name	Immutable value
underlying	USDC (0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48)
lpToken	LpToken (cncUSDC) (0xd02bcdbe1d7790bdc4e1c365bff8269d8f5e035e)
rewardManager	RewardManager USDC (0x15c606c60afcfaa8e57777d947c40e9204119532)
weightManager	WeightManager USDC (0x9c323a3b948098b411f44b55779288f01116f7c4)
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

- **_owner**
  - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **pauseDuration**
  - Value: `0x0000000000000000000000000000000000007080`
  - ValueHint: `2.88 * 10^4`
- **maxDeviation**
  - Value: `0x00000000000000000000000000470de4df820000`
  - ValueHint: `2. * 10^16`
- **maxIdleCurveLpRatio**
  - Value: `0x000000000000000000000000b1a2bc2ec50000`

- ValueHint: `5. * 10^16`

- **isShutdown**
  - Value: `0x00`
- **depegThreshold**
  - Value: `0x000000000000000000000000006a94d74f430000`
  - ValueHint: `3. * 10^16`
- **emergencyRebalancingRewardsFactor**
  - Value: `0x0000000000000000000000008ac7230489e80000`
  - ValueHint: `1. * 10^19`

4.8.3 Important Events to watch

1. `DepegThresholdUpdated(uint256)`
2. `EmergencyRebalancingRewardFactorUpdated(uint256)`
3. `MaxDeviationUpdated(uint256)`
4. `NewMaxIdleCurveLpRatio(uint256)`
5. `OwnershipTransferred(address,address)`
6. `PauseDurationSet(uint256)`
7. `Shutdown()`

4.9 ConicPool crvUSD

Deployed at: `0x89dc3e9d493512f6cfb923e15369ebfdde591988`

4.9.1 Bytecode comparison

Codehash: `0x7141e6285077ee36c7ade2d3aaad94f33b72b6370d936067b4b72e998d0d7f27`

Bytecode Match except for Metadata hash

4.9.2 Validated State

Immutable name	Immutable value
underlying	crvUSD (0xf939e0a03fb07f59a73314e73794be0e57ac1b4e)
lpToken	LpToken (cncCRVUSD) (0x9961bdbe8b7091e584c2bf9d0a160c583f564a8c)
rewardManager	RewardManager crvUSD (0xbf65fadd5335380a7d5aa01f1676af22ee60f9ad)
weightManager	WeightManager crvUSD (0x859cf09f2cc41bbc4a8b92bddf9c521bcca9b5ed)
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

- **_owner**

    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **pauseDuration**
    - Value: `0x0000000000000000000000000000000000007080`
    - ValueHint: `2.88 * 10^4`
- **maxDeviation**
    - Value: `0x00000000000000000000000000470de4df820000`
    - ValueHint: `2. * 10^16`
- **maxIdleCurveLpRatio**
    - Value: `0x000000000000000000000000b1a2bc2ec50000`
    - ValueHint: `5. * 10^16`
- **isShutdown**
    - Value: `0x00`
- **depegThreshold**
    - Value: `0x000000000000000000000000006a94d74f430000`
    - ValueHint: `3. * 10^16`
- **emergencyRebalancingRewardsFactor**
    - Value: `0x0000000000000000000000008ac7230489e80000`
    - ValueHint: `1. * 10^19`

4.9.3 Important Events to watch

1. `DepegThresholdUpdated(uint256)`
2. `EmergencyRebalancingRewardFactorUpdated(uint256)`
3. `HandledDepeggedCurvePool(address)`
4. `HandledInvalidConvexPid(address,uint256)`
5. `MaxDeviationUpdated(uint256)`
6. `NewMaxIdleCurveLpRatio(uint256)`
7. `OwnershipTransferred(address,address)`
8. `PauseDurationSet(uint256)`
9. `Shutdown()`

4.10 WeightManager ETH

Deployed at: `0xfc468d8100a453764a6c10ea7f80bc3bb4180846`

4.10.1 Bytecode comparison

Codehash: `0x4f44167df6e86f370f632b9b86239baa0779b7efcb0681a9b1466ac61f934265`

Bytecode Match except for Metadata hash

4.10.2 Validated State

Immutable name	Immutable value
conicPool	ConicEthPool (0x3367070ed152e2b715eef48d157685cf496f3543)
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)
underlying	WETH (0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2)

- **_pools._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000004`
    - ValueHint: 4
- **_pools._inner._values[0]**
    - Value: Curve.fi ETH/frxETH (0xa1f8a6807c402e4a15ef4eba36528a3fed24e577)
- **_pools._inner._values[1]**
    - Value: frxeth-ng-f (0x9c3b46c0ceb5b9e304fcd6d88fc50f7dd24b31bc)
- **_pools._inner._values[2]**
    - Value: stETH-ng-f (0x21e27a5e5513d6e65c4f830167390997aa84843a)
- **_pools._inner._values[3]**
    - Value: Curve.fi ETH/stETH (0xdc24316b9ae028f1497c275eb9192a3ea0f67022)
- **_pools._inner._indexes [0000000000000000000000021e27a5e5513d6e65c4f830167390997aa84843a]**
    - Value: `0x0000000000000000000000000000000000000003`
    - ValueHint: 3
- **_pools._inner._indexes [0000000000000000000000009c3b46c0ceb5b9e304fcd6d88fc50f7dd24b31bc]**
    - Value: `0x0000000000000000000000000000000000000002`
    - ValueHint: 2
- **_pools._inner._indexes [000000000000000000000000a1f8a6807c402e4a15ef4eba36528a3fed24e577]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: 1
- **_pools._inner._indexes [000000000000000000000000dc24316b9ae028f1497c275eb9192a3ea0f67022]**
    - Value: `0x0000000000000000000000000000000000000004`
    - ValueHint: 4

4.10.3 Important Events to watch

1. `CurvePoolAdded(address)`
2. `CurvePoolRemoved(address)`

4.11 WeightManager USDC

Deployed at: `0x9c323a3b948098b411f44b55779288f01116f7c4`

4.11.1 Bytecode comparison

Codehash: `0xb1e396483044a15fa7ca9e354997e2d11aeacf078d0298877c7f69d146371221`

Bytecode Match except for Metadata hash

4.11.2 Validated State

Immutable name	Immutable value
conicPool	ConicPool USDC (0x80a3604977270b7ef2e637f9eb78ce1c3fa64316)
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)
underlying	USDC (0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48)

- **_pools._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000003`
    - ValueHint: 3
- **_pools._inner._values[0]**
    - Value: crvUSDUSDC-f (0x4dece678ceceb27446b35c672dc7d61f30bad69e)
- **_pools._inner._values[1]**
    - Value: Pool for DAI/USDC/USDT (0xbebc44782c7db0a1a60cb6fe97d0b483032ff1c7)
- **_pools._inner._values[2]**
    - Value: Curve.fi FRAX/USDC (0xdcef968d416a41cdac0ed8702fac8128a64241a2)
- **_pools._inner._indexes [0000000000000000000000004dece678ceceb27446b35c672dc7d61f30bad69e]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: 1
- **_pools._inner._indexes [0000000000000000000000005a6a4d54456819380173272a5e8e9b9904bdf41b]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_pools._inner._indexes [0000000000000000000000000bebc44782c7db0a1a60cb6fe97d0b483032ff1c7]**
    - Value: `0x0000000000000000000000000000000000000002`
    - ValueHint: 2

- **_pools._inner._indexes [0000000000000000000000000dcef968d416a41cdac0ed8702fac8128a64241a2]**
    - Value: `0x0000000000000000000000000000000000000003`
    - ValueHint: 3

4.11.3 Important Events to watch

1. `CurvePoolAdded(address)`
2. `CurvePoolRemoved(address)`

4.12 WeightManager crvUSD

Deployed at: `0x859cf09f2cc41bbc4a8b92bddf9c521bcca9b5ed`

4.12.1 Bytecode comparison

Codehash: `0x82ae6d95eaf6b53c69bc3a21aa16145c7051eca843f809dbc67f1f28c304c5c0`

Bytecode Match except for Metadata hash

4.12.2 Validated State

Immutable name	Immutable value
conicPool	ConicPool crvUSD (0x89dc3e9d493512f6cfb923e15369ebfdde591988)
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)
underlying	crvUSD (0xf939e0a03fb07f59a73314e73794be0e57ac1b4e)

- **_pools._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000003`
    - ValueHint: 3
- **_pools._inner._values[0]**
    - Value: crvUSDUSDT-f (0x390f3595bca2df7d23783dfd126427cceb997bf4)
- **_pools._inner._values[1]**
    - Value: crvUSDUSDC-f (0x4dece678ceceb27446b35c672dc7d61f30bad69e)
- **_pools._inner._values[2]**
    - Value: crvUSDFRAX-f (0x0cd6f267b2086bea681e922e19d40512511be538)
- **_pools._inner._indexes [0000000000000000000000000cd6f267b2086bea681e922e19d40512511be538]**
    - Value: `0x0000000000000000000000000000000000000003`
    - ValueHint: 3

- **_pools._inner._indexes [0000000000000000000000000390f3595bca2df7d23783dfd126427cceb997bf4]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`
- **_pools._inner._indexes [0000000000000000000000004dece678ceceb27446b35c672dc7d61f30bad69e]**
    - Value: `0x0000000000000000000000000000000000000002`
    - ValueHint: `2`

4.12.3 Important Events to watch

1. `CurvePoolAdded(address)`
2. `CurvePoolRemoved(address)`

4.13 Controller

Deployed at: `0x2790ec478f150a98f5d96755601a26403df57eae`

4.13.1 Bytecode comparison

Codehash: `0x016fd35c1b02c58e25318c741d452c3f28991d77529863dac3cf6d80b5278b31`

Bytecode Match except for Metadata hash

4.13.2 Validated State

Immutable name	Immutable value
cncToken	CNCToken (0x9ae380f0272e2162340a5bb646c354271c0f5cfc)

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **_initialized**
    - Value: `0x01`
    - ValueHint: `1`
- **_initializing**
    - Value: `0x00`
- **_pools._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000003`
    - ValueHint: `3`
- **_pools._inner._values[0]**
    - Value: ConicPool crvUSD (0x89dc3e9d493512f6cfb923e15369ebfdde591988)

- **_pools._inner._values[1]**
    - Value: ConicPool USDC (0x80a3604977270b7ef2e637f9eb78ce1c3fa64316)
- **_pools._inner._values[2]**
    - Value: ConicEthPool (0x3367070ed152e2b715eef48d157685cf496f3543)
- **_pools._inner._indexes [0000000000000000000000003367070ed152e2b715eef48d157685cf496f3543]**
    - Value: `0x0000000000000000000000000000000000000003`
    - ValueHint: 3
- **_pools._inner._indexes [00000000000000000000000080a3604977270b7ef2e637f9eb78ce1c3fa64316]**
    - Value: `0x0000000000000000000000000000000000000002`
    - ValueHint: 2
- **_pools._inner._indexes [00000000000000000000000089dc3e9d493512f6cfb923e15369ebfdde591988]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: 1
- **_activePools._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000003`
    - ValueHint: 3
- **_activePools._inner._values[0]**
    - Value: ConicPool crvUSD (0x89dc3e9d493512f6cfb923e15369ebfdde591988)
- **_activePools._inner._values[1]**
    - Value: ConicPool USDC (0x80a3604977270b7ef2e637f9eb78ce1c3fa64316)
- **_activePools._inner._values[2]**
    - Value: ConicEthPool (0x3367070ed152e2b715eef48d157685cf496f3543)
- **_activePools._inner._indexes [0000000000000000000000003367070ed152e2b715eef48d157685cf496f3543]**
    - Value: `0x0000000000000000000000000000000000000003`
    - ValueHint: 3
- **_activePools._inner._indexes [00000000000000000000000080a3604977270b7ef2e637f9eb78ce1c3fa64316]**
    - Value: `0x0000000000000000000000000000000000000002`
    - ValueHint: 2
- **_activePools._inner._indexes [00000000000000000000000089dc3e9d493512f6cfb923e15369ebfdde591988]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: 1

- **_pauseManagers._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000005`
    - ValueHint: `5`
- **_pauseManagers._inner._values[0]**
    - Value: `0xfe45baf0f18c207152a807c1b05926583cfe2e4b`
- **_pauseManagers._inner._values[1]**
    - Value: `0xb05a619a74b8c30ab4e87100bc8f03b60a9b12f7`
- **_pauseManagers._inner._values[2]**
    - Value: `0xa827507bf2219b4bce0f3db489e51ef367178ae7`
- **_pauseManagers._inner._values[3]**
    - Value: `0x8d748141979bd872d5add84dbcf0096142c1e2d7`
- **_pauseManagers._inner._values[4]**
    - Value: `0xf6afc10bcadeb1556a4c8f07b63ada60bfd10fc4`
- **_pauseManagers._inner._indexes [0000000000000000000000008d748141979bd872d5add84dbcf0096142c1e2d7]**
    - Value: `0x0000000000000000000000000000000000000004`
    - ValueHint: `4`
- **_pauseManagers._inner._indexes [0000000000000000000000000a827507bf2219b4bce0f3db489e51ef367178ae7]**
    - Value: `0x0000000000000000000000000000000000000003`
    - ValueHint: `3`
- **_pauseManagers._inner._indexes [0000000000000000000000000b05a619a74b8c30ab4e87100bc8f03b60a9b12f7]**
    - Value: `0x0000000000000000000000000000000000000002`
    - ValueHint: `2`
- **_pauseManagers._inner._indexes [0000000000000000000000000f6afc10bcadeb1556a4c8f07b63ada60bfd10fc4]**
    - Value: `0x0000000000000000000000000000000000000005`
    - ValueHint: `5`
- **_pauseManagers._inner._indexes [0000000000000000000000000fe45baf0f18c207152a807c1b05926583cfe2e4b]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`
- **_multiDepositsWithdrawsWhitelist._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`

- **_multiDepositsWithdrawsWhitelist._inner._values[0]**
    - Value: CNCMintingRebalancingRewardsHandler (0x53a2f0333f7320e862616211b0e44e4354077f9d)
- **_multiDepositsWithdrawsWhitelist._inner._indexes [0x00000000000000000000000053a2f0333f7320e862616211b0e44e4354077f9d]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`
- **_multiDepositsWithdrawsWhitelist._inner._indexes [0x000000000000000000000006f9bb7e454f5b3eb2310343f0e99269dc2bb8a1d]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_multiDepositsWithdrawsWhitelist._inner._indexes [0x000000000000000000000000b27dc5f8286f063f11491c8f349053cb37718bea]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_multiDepositsWithdrawsWhitelist._inner._indexes [0x000000000000000000000000d8c2ee2fefac57f8b3cd63be28d8f89bbbf5a5f2]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_minimumTaintedTransferAmount[0x58649ec8add732ea710731b5cb37c99529a394d3]**
    - Value: `0x0000000000000000000000000a17ca9ce20f800`
    - ValueHint: `4.545454 * 10^16`
- **_minimumTaintedTransferAmount[0x9961bdbe8b7091e584c2bf9d0a160c583f564a8c]**
    - Value: `0x00000000000000000000000056bc75e2d63100000`
    - ValueHint: `1. * 10^20`
- **_minimumTaintedTransferAmount[0xd02bcdbe1d7790bdc4e1c365bff8269d8f5e035e]**
    - Value: `0x0000000000000000000000000000000005f5e100`
    - ValueHint: `1. * 10^8`
- **convexBooster**
    - Value: convexBooster (0xf403c135812408bfbe8713b5a23a04b3d48aae31)
- **curveHandler**
    - Value: CurveHandler (0xbcface618465f7d35ce82992fbe92e63c0529b13)
- **convexHandler**
    - Value: ConvexHandler (0xca432abffbe075cc3fa63a8fa9fb933d6f92d798)
- **priceOracle**
    - Value: GenericOracle (0x865934bea4ffe1b51260a99455b1561bc3114e07)
- **curveRegistryCache**
    - Value: CurveRegistryCache (0x29e06bba53f73e271859214d9d87a1be636273c0)
- **inflationManager**

    - Value: InflationManager (0x05f494e6554fab539873dcf92a4d2f6930105b16)
- **lpTokenStaker**
    - Value: LpTokenStaker (0xa5241560306298efb9ed80b87427e664ffff0cf9)
- **bonding**
    - Value: Bonding (0xc3d0d54aff5209118aed32253cc8ec5f417d6b9c)
- **feeRecipient**
    - Value: DebtPool (0xcfe7ba85d916875779f9668b606b70051901d5ca)
- **_customPoolAdapters[0x0cd6f267b2086bea681e922e19d40512511be538]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_customPoolAdapters[0x21e27a5e5513d6e65c4f830167390997aa84843a]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_customPoolAdapters[0x390f3595bca2df7d23783dfd126427cceb997bf4]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_customPoolAdapters[0x4dece678ceceb27446b35c672dc7d61f30bad69e]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_customPoolAdapters[0x5a6a4d54456819380173272a5e8e9b9904bdf41b]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_customPoolAdapters[0x9c3b46c0ceb5b9e304fcd6d88fc50f7dd24b31bc]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_customPoolAdapters[0xa1f8a6807c402e4a15ef4eba36528a3fed24e577]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_customPoolAdapters[0xbebc44782c7db0a1a60cb6fe97d0b483032ff1c7]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_customPoolAdapters[0xdc24316b9ae028f1497c275eb9192a3ea0f67022]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_customPoolAdapters[0xdcef968d416a41cdac0ed8702fac8128a64241a2]**
    - Value: `0x0000000000000000000000000000000000000000`
- **defaultPoolAdapter**
    - Value: CurveAdapter (0x396b4ca70a59cf44f26c89e525212f9fc10e898c)
- **weightUpdateMinDelay**
    - Value: `0x000000000000000000000000000000000002a300`
    - ValueHint: `1.728 * 10^5`

4.13.3 Important Events to watch

1. BondingSet(address)
2. ConvexBoosterSet(address)
3. ConvexHandlerSet(address)
4. CurveHandlerSet(address)
5. CurveRegistryCacheSet(address)
6. CustomPoolAdapterSet(address,address)
7. DefaultPoolAdapterSet(address)
8. FeeRecipientSet(address)
9. InflationManagerSet(address)
10. Initialized(uint8)
11. MinimumTaintedTransferAmountSet(address,uint256)
12. MultiDepositsWithdrawsWhitelistSet(address,bool)
13. OwnershipTransferred(address,address)
14. PauseManagerSet(address,bool)
15. PoolAdded(address)
16. PoolRemoved(address)
17. PoolShutdown(address)
18. PriceOracleSet(address)
19. WeightUpdateMinDelaySet(uint256)

4.14 ConvexHandler

Deployed at: 0xca432abffbe075cc3fa63a8fa9fb933d6f92d798

4.14.1 Bytecode comparison

Codehash: 0x0ed26565ae194e2da4376b84ee42bd48f3017d762363001de30f3d458f2b6e76

Bytecode Match except for Metadata hash

4.14.2 Validated State

Immutable name	Immutable value
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

- **cliffThreshold**
  - Value: 0x000000000000000000000000b1a2bc2ec50000
  - ValueHint: 5. * 10^16

4.15 CurveAdapter

Deployed at: 0x396b4ca70a59cf44f26c89e525212f9fc10e898c

4.15.1 Bytecode comparison

Codehash: `0xc6195cecfca4b729a491e8f521b032e71a5a44674753eced7f361e524c518009`

Bytecode Match except for Metadata hash

4.15.2 Validated State

Immutable name	Immutable value
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

4.16 CurveHandler

Deployed at: `0xbcface618465f7d35ce82992fbe92e63c0529b13`

4.16.1 Bytecode comparison

Codehash: `0x98537c4e0257616d0faf6e52d8a582da78afb0ec43fe4d12dc7f0a13682a446a`

Bytecode Match except for Metadata hash

4.16.2 Validated State

Immutable name	Immutable value
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

4.17 CurveLPOracle

Deployed at: `0x143f4fbc7b9d4235b2d8a74e905598da7e951be0`

4.17.1 Bytecode comparison

Codehash: `0x0e5198b1522e459a1c719442b669fa1de98c0208016d1e5c46187b27b325027c`

Bytecode Match except for Metadata hash

4.17.2 Validated State

Immutable name	Immutable value
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **customImbalanceBuffers[0x5e8422345238f34275888049021821e8e08caa1f]**
    - Value: `0x000000000000000000000000001c6bf526340000`

    - ValueHint: `8. * 10^15`
- **customImbalanceBuffers[0x853d955acef822db058eb8505911ed77f175b99e]**
    - Value: `0x0000000000000000000000000000000000000000`
- **customImbalanceBuffers[0x99d8a9c45b2eca8864373a26d1459e3dff1e17f3]**
    - Value: `0x00000000000000000000000016345785d8a0000`
    - ValueHint: `1. * 10^17`
- **customImbalanceBuffers[USD Coin (USDC)]**
    - Value: `0x00000000000000000000000000ffcb9e57d4000`
    - ValueHint: `4.5 * 10^15`
- **customImbalanceBuffers[0xae7ab96520de3a18e5e111b5eaab095312d7fe84]**
    - Value: `0x00000000000000000000000016371457d3b400`
    - ValueHint: `6.25301 * 10^15`
- **customImbalanceBuffers[Tether (USDT)]**
    - Value: `0x00000000000000000000000011c37937e08000`
    - ValueHint: `5. * 10^15`
- **customImbalanceBuffers[0xf939e0a03fb07f59a73314e73794be0e57ac1b4e]**
    - Value: `0x00000000000000000000000000f46d3c488c000`
    - ValueHint: `4.3 * 10^15`

4.17.3 Important Events to watch

1. `ImbalanceThresholdUpdated(address,uint256)`
2. `InternalImbalanceThresholdUpdated(address,uint256)`
3. `OwnershipTransferred(address,address)`

4.18 CurveRegistryCache

Deployed at: `0x29e06bba53f73e271859214d9d87a1be636273c0`

4.18.1 Bytecode comparison

Codehash: `0xdb3bd3644e090772ca064b53d886f9c350f9527b2891a4b266467470f9b30e9b`

Bytecode Match except for Metadata hash

4.19 DebtPool

Deployed at: `0xcfe7ba85d916875779f9668b606b70051901d5ca`

4.19.1 Bytecode comparison

Codehash: `0x93ced8c01cd6913c53c25968f86270f8ed2c43c074c8d2bc7425bb24edab2a86`

Bytecode Match except for Metadata hash

4.19.2 Validated State

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **debtToken**
    - Value: ConicDebtToken (0xfb588886715a263f69c1edd4e84e0ac1855e928a)

4.19.3 Important Events to watch

1. `OwnershipTransferred(address,address)`

4.20 EthZap

Deployed at: `0x78036dc2785eacd76cca4ab6eac6b8105d0d42b3`

4.20.1 Bytecode comparison

Codehash: `0xb58c283ca433aa459dc9ff8287623252d36af11c2643dd966448685076198232`

Bytecode Match except for Metadata hash

4.20.2 Validated State

Immutable name	Immutable value
ethPool	ConicEthPool (0x3367070ed152e2b715eef48d157685cf496f3543)

4.21 FrxETHPriceOracle

Deployed at: `0x7eea9d690162bc71bb81b9ba83b53d4ad376f21c`

4.21.1 Bytecode comparison

Codehash: `0x7c9d74b411021c4235cf530e5198d43ef9de1cdcc98f2b7914da32e8e388f634`

Bytecode Match except for Metadata hash

4.22 GenericOracle

Deployed at: `0x865934bea4ffe1b51260a99455b1561bc3114e07`

4.22.1 Bytecode comparison

Codehash: `0x09a78d876bbf3cd32ac45e480e38383f820c558d6c3f32998ca5ee6d145b0d13`

Bytecode Match except for Metadata hash

4.22.2 Validated State

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **customOracles[0x0cd6f267b2086bea681e922e19d40512511be538]**
    - Value: `0x0000000000000000000000000000000000000000`
- **customOracles[0x390f3595bca2df7d23783dfd126427cceb997bf4]**
    - Value: `0x0000000000000000000000000000000000000000`
- **customOracles[0x4dece678ceceb27446b35c672dc7d61f30bad69e]**
    - Value: `0x0000000000000000000000000000000000000000`
- **customOracles[0x5e8422345238f34275888049021821e8e08caa1f]**
    - Value: FrxETHPriceOracle (0x7eea9d690162bc71bb81b9ba83b53d4ad376f21c)
- **customOracles[0x853d955acef822db058eb8505911ed77f175b99e]**
    - Value: `0x0000000000000000000000000000000000000000`
- **customOracles[USD Coin (USDC)]**
    - Value: `0x0000000000000000000000000000000000000000`
- **customOracles[Tether (USDT)]**
    - Value: `0x0000000000000000000000000000000000000000`
- **customOracles[0xf939e0a03fb07f59a73314e73794be0e57ac1b4e]**
    - Value: `0x0000000000000000000000000000000000000000`
- **_chainlinkOracle**
    - Value: ChainlinkOracle (0xd918685c42a248ff471ef87e005718c4aafe04b7)
- **_curveLpOracle**
    - Value: CurveLPOracle (0x143f4fbc7b9d4235b2d8a74e905598da7e951be0)

4.22.3 Important Events to watch

1. `CustomOracleAdded(address,address)`
2. `OwnershipTransferred(address,address)`

4.23 GovernanceProxy

Deployed at: `0x38a40942cb275d941309d5af28b44d27576cdaaf`

4.23.1 Bytecode comparison

Codehash: `0x5a96d633fd403c5ee11820b74d23f60725acaba13f63c7f88c9108da71ec75f7`

Bytecode Match except for Metadata hash

4.23.2 Validated State

- **roles [474f5645524e414e434500000000000000000000000000000000000000000000]._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`
- **roles [474f5645524e414e434500000000000000000000000000000000000000000000]._inner._values[0]**
    - Value: GOVERNANCE (0xb27dc5f8286f063f11491c8f349053cb37718bea)
- **roles [474f5645524e414e434500000000000000000000000000000000000000000000]._inner._indexes [000000000000000000000000b27dc5f8286f063f11491c8f349053cb37718bea]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`
- **roles [5645544f000000000000000000000000000000000000000000000000000000000]._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`
- **roles [5645544f000000000000000000000000000000000000000000000000000000000]._inner._values[0]**
    - Value: VETO (0x5a2e9f203da3e6dd9d0c5f6366df4df98a54bc0c)
- **roles [5645544f000000000000000000000000000000000000000000000000000000000]._inner._indexes [0000000000000000000000005a2e9f203da3e6dd9d0c5f6366df4df98a54bc0c]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`
- **delays[172cc335000000000000000000000000000000000000000000000000000000000]**
    - Value: `0x0000000000000000`
- **delays[388793ed000000000000000000000000000000000000000000000000000000000]**
    - Value: `0x0000000000000000`
- **delays[42ae868400000000000000000000000000000000000000000000000000000000]**
    - Value: `0x0000000000000000`
- **delays[be9a655500000000000000000000000000000000000000000000000000000000]**
    - Value: `0x0000000000000000`

4.23.3 Important Events to watch

1. `DelayUpdated(bytes4,uint64)`
2. `RoleGranted(bytes32,address)`
3. `RoleRevoked(bytes32,address)`

4.24 InflationManager

Deployed at: `0x05f494e6554fab539873dcf92a4d2f6930105b16`

4.24.1 Bytecode comparison

Codehash: `0x191c24195c1284ce1ed36b65d49992a9471d2b3fdbc090e7dab39f0a75f22127`

Bytecode Match except for Metadata hash

4.24.2 Validated State

Immutable name	Immutable value
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **_rebalancingRewardHandlers [0x3367070ed152e2b715eef48d157685cf496f3543]._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`
- **_rebalancingRewardHandlers [0x3367070ed152e2b715eef48d157685cf496f3543]._inner._values[0]**
    - Value: CNCMintingRebalancingRewardsHandler (0x53a2f0333f7320e862616211b0e44e4354077f9d)
- **_rebalancingRewardHandlers [0x3367070ed152e2b715eef48d157685cf496f3543]._inner._indexes [0x00000000000000000000000053a2f0333f7320e862616211b0e44e4354077f9d]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`
- **_rebalancingRewardHandlers [0x80a3604977270b7ef2e637f9eb78ce1c3fa64316]._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`
- **_rebalancingRewardHandlers [0x80a3604977270b7ef2e637f9eb78ce1c3fa64316]._inner._values[0]**
    - Value: CNCMintingRebalancingRewardsHandler (0x53a2f0333f7320e862616211b0e44e4354077f9d)
- **_rebalancingRewardHandlers [0x80a3604977270b7ef2e637f9eb78ce1c3fa64316]._inner._indexes [0x00000000000000000000000053a2f0333f7320e862616211b0e44e4354077f9d]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`

- **_rebalancingRewardHandlers [0x89dc3e9d493512f6cfb923e15369ebfdde591988]._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`
- **_rebalancingRewardHandlers [0x89dc3e9d493512f6cfb923e15369ebfdde591988]._inner._values[0]**
    - Value: CNCMintingRebalancingRewardsHandler (0x53a2f0333f7320e862616211b0e44e4354077f9d)
- **_rebalancingRewardHandlers [0x89dc3e9d493512f6cfb923e15369ebfdde591988]._inner._indexes [0x00000000000000000000000053a2f0333f7320e862616211b0e44e4354077f9d]**
    - Value: `0x0000000000000000000000000000000000000001`
    - ValueHint: `1`

4.24.3 Important Events to watch

1. `OwnershipTransferred(address,address)`
2. `RebalancingRewardHandlerAdded(address,address)`
3. `RebalancingRewardHandlerRemoved(address,address)`

4.25 LpToken (cncETH)

Deployed at: `0x58649ec8add732ea710731b5cb37c99529a394d3`

4.25.1 Bytecode comparison

Codehash: `0x08bf3987a9a598c445cf964a9d88056e6765a8f1398989d9a4bdf113b78a70d0`

Bytecode Match except for Metadata hash

4.25.2 Validated State

Immutable name	Immutable value
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)
minter	ConicEthPool (0x3367070ed152e2b715eef48d157685cf496f3543)

- **__decimals**
    - Value: `0x12`
    - ValueHint: `18`

4.26 LpToken (cncUSDC)

Deployed at: `0xd02bcdbe1d7790bdc4e1c365bff8269d8f5e035e`

4.26.1 Bytecode comparison

Codehash: `0x2a0982e94b26caa0b9134863737505ae62e78d894081783ddefd9120c75a2875`

Bytecode Match except for Metadata hash

4.26.2 Validated State

Immutable name	Immutable value
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)
minter	ConicPool USDC (0x80a3604977270b7ef2e637f9eb78ce1c3fa64316)

- **__decimals**
    - Value: `0x06`
    - ValueHint: `6`

4.27 LpToken (cncCRVUSD)

Deployed at: `0x9961bdbe8b7091e584c2bf9d0a160c583f564a8c`

4.27.1 Bytecode comparison

Codehash: `0xc23ee52c671a35c777d52ffbb1399fa37e7408b174ba995050cef3efe51904f6`

Bytecode Match except for Metadata hash

4.27.2 Validated State

Immutable name	Immutable value
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)
minter	ConicPool crvUSD (0x89dc3e9d493512f6cfb923e15369ebfdde591988)

- **__decimals**
    - Value: `0x12`
    - ValueHint: `18`

4.28 LpTokenStaker

Deployed at: `0xa5241560306298efb9ed80b87427e664ffff0cf9`

4.28.1 Bytecode comparison

Codehash: `0x3df633b3f4e7471f5bf441724a40f8049eb5dc53a29ad0d93784439b22e486a6`

Bytecode Match except for Metadata hash

4.28.2 Validated State

Immutable name	Immutable value
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)
cnc	CNCToken (0x9ae380f0272e2162340a5bb646c354271c0f5cfc)
_treasury	GOVERNANCE (0xb27dc5f8286f063f11491c8f349053cb37718bea)

- **isShutdown**
  - Value: `0x00`

4.28.3 Important Events to watch

1. `Shutdown()`

4.29 OmnipoolHelper

Deployed at: `0x7d32be9f74da4fa87eed0fbb199c0c22f34cf9e1`

4.29.1 Bytecode comparison

Codehash: `0xdffc7210c3c95b39dfecad20112a3586c4be16c85270d1b0a9c27914ad266c8c`

Bytecode Match except for Metadata hash

4.29.2 Validated State

Immutable name	Immutable value
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

4.30 RewardManager ETH

Deployed at: `0x71e1829c1f45e8a02931a4721719b8cd2fd1c558`

4.30.1 Bytecode comparison

Codehash: `0x9895f97772de89d58ba80510cc120f06b5b25444b3415d01dd48f30f4e9f9db6`

Bytecode Match except for Metadata hash

4.30.2 Validated State

Immutable name	Immutable value
underlying	WETH (0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2)
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **_initialized**
    - Value: `0x01`
    - ValueHint: `1`
- **_initializing**
    - Value: `0x00`
- **conicPool**
    - Value: ConicEthPool (0x3367070ed152e2b715eef48d157685cf496f3543)
- **_extraRewards._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000000`
- **feePercentage**
    - Value: `0x00000000000000000000000016345785d8a0000`
    - ValueHint: `1. * 10^17`

4.30.3 Important Events to watch

1. `ExtraRewardAdded(address)`
2. `ExtraRewardRemoved(address)`
3. `ExtraRewardsCurvePoolSet(address,address)`
4. `FeesEnabled(uint256)`
5. `FeesSet(uint256)`
6. `Initialized(uint8)`
7. `OwnershipTransferred(address,address)`

4.31 RewardManager USDC

Deployed at: `0x15c606c60afcfaa8e57777d947c40e9204119532`

4.31.1 Bytecode comparison

Codehash: `0x07592f15fdaaa78db6c81ffa401a066b9ef661957497ab29e9ac59b16bec98ba`

Bytecode Match except for Metadata hash

4.31.2 Validated State

Immutable name	Immutable value
underlying	USDC (0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48)

controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

- **_owner**
  - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **_initialized**
  - Value: `0x01`
  - ValueHint: `1`
- **_initializing**
  - Value: `0x00`
- **conicPool**
  - Value: ConicPool USDC (0x80a3604977270b7ef2e637f9eb78ce1c3fa64316)
- **_extraRewards._inner._values.length**
  - Value: `0x0000000000000000000000000000000000000000`
- **feePercentage**
  - Value: `0x00000000000000000000000016345785d8a0000`
  - ValueHint: `1. * 10^17`

4.31.3 Important Events to watch

1. `ExtraRewardAdded(address)`
2. `ExtraRewardRemoved(address)`
3. `ExtraRewardsCurvePoolSet(address,address)`
4. `FeesEnabled(uint256)`
5. `FeesSet(uint256)`
6. `Initialized(uint8)`
7. `OwnershipTransferred(address,address)`

4.32 RewardManager crvUSD

Deployed at: `0xbf65fadd5335380a7d5aa01f1676af22ee60f9ad`

4.32.1 Bytecode comparison

Codehash: `0x1c181a9eb83c5c6cdceeb144b74e75a86efb23884f94609ba1bf777578fbc6dd`

Bytecode Match except for Metadata hash

4.32.2 Validated State

Immutable name	Immutable value

underlying	crvUSD (0xf939e0a03fb07f59a73314e73794be0e57ac1b4e)
controller	Controller (0x2790ec478f150a98f5d96755601a26403df57eae)

- **_owner**
    - Value: GovernanceProxy (0x38a40942cb275d941309d5af28b44d27576cdaaf)
- **_initialized**
    - Value: `0x01`
    - ValueHint: `1`
- **_initializing**
    - Value: `0x00`
- **conicPool**
    - Value: ConicPool crvUSD (0x89dc3e9d493512f6cfb923e15369ebfdde591988)
- **_extraRewards._inner._values.length**
    - Value: `0x0000000000000000000000000000000000000000`
- **feesEnabled**
    - Value: `0x01`
    - ValueHint: `true`
- **feePercentage**
    - Value: `0x00000000000000000000000016345785d8a0000`
    - ValueHint: `1. * 10^17`

4.32.3 Important Events to watch

1. `ExtraRewardAdded(address)`
2. `ExtraRewardRemoved(address)`
3. `ExtraRewardsCurvePoolSet(address,address)`
4. `FeesEnabled(uint256)`
5. `FeesSet(uint256)`
6. `Initialized(uint8)`
7. `OwnershipTransferred(address,address)`