

STATE MIND

V2 deployment validation

05-05-2023 – 10-05-2023

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1. Project Brief



Title	Description
Client	Lido
Project name	V2 deployment validation
Timeline	05-05-2023 - 10-05-2023
Initial commit	08a57c242f902a8a3bc526a851afc32e3f6b6275, 7e9704d9f40cd17652480a15f2ca9519d6b532d2, a19c6b7e2d661de12e2ba585c251c8d70a1da230
Final commit	08a57c242f902a8a3bc526a851afc32e3f6b6275, 7e9704d9f40cd17652480a15f2ca9519d6b532d2, a19c6b7e2d661de12e2ba585c251c8d70a1da230

Short Overview

Lido has requested Statemind to validate the deployment of their V2 contracts.

The purpose of the validation is to ensure that the deployed contracts' sources match the audited commit and that the contracts are configured correctly according to the reference [docs](#).

The deployment consists of three main parts:


- Lido's main contracts: [lidofinance/lido-dao](#).
- GateSeals contracts: [lidofinance/gate-seals](#).
- ShapellaUpgradeTemplate contract: [lidofinance/scripts](#).


Reference commits and audit reports


Repository	Commit	Audit Report
lido-dao	e45c4d6fb8120fd29426b8d969c19d8a798ca974	2023-04-28
gate-seals	7e9704d9f40cd17652480a15f2ca9519d6b532d2	2023-04-20
ShapellaUpgradeTemplate	a19c6b7e2d661de12e2ba585c251c8d70a1da230	2023-05-10


Project Scope


The audit covered the following files:


-  [SignatureUtils.sol](#)


 [ECDSA.sol](#)


 [MinFirstAllocationStrategy.sol](#)


 [LegacyOracle.sol](#)


 [Lido.sol](#)


 [Versioned.sol](#)


 [SigningKeys.sol](#)


 [Packed64x4.sol](#)

 [OssifiableProxy.sol](#)


 [OracleDaemonConfig.sol](#)


 [WithdrawalQueueBase.sol](#)


 [ValidatorsExitBusOracle.sol](#)


 [HashConsensus.sol](#)


 [WithdrawalQueue.sol](#)


 [AccessControlEnumerable.sol](#)


 [Versioned.sol](#)


 [UnstructuredRefStorage.sol](#)



 [Math.sol](#)


 [LidoExecutionLayerRewardsVault.sol](#)


 [WithdrawalQueueERC721.sol](#)


 [StakingRouter.sol](#)


 [GateSealFactory.vy](#)


 [ShapellaUpgradeTemplate.sol](#)
-  [Math256.sol](#)


 [MemUtils.sol](#)


 [NodeOperatorsRegistry.sol](#)


 [StETH.sol](#)


 [Pausable.sol](#)


 [StETHPermit.sol](#)


 [StakeLimitUtils.sol](#)


 [WstETH.sol](#)


 [WithdrawalVault.sol](#)


 [Burner.sol](#)


 [AccountingOracle.sol](#)


 [BaseOracle.sol](#)


 [OracleReportSanityChecker.sol](#)


 [PausableUntil.sol](#)


 [AccessControl.sol](#)


 [DepositSecurityModule.sol](#)


 [UnstructuredStorage.sol](#)

 [PositiveTokenRebaseLimiter.sol](#)

 [EIP712StETH.sol](#)

 [BeaconChainDepositor.sol](#)

 [LidoLocator.sol](#)

 [GateSeal.vy](#)

2. Conclusion



All deployments have been successfully validated, meaning that:

- All audited commits match the deployed contracts fully.
- All default configurations are correct.
- The contracts are ready for upgrade.

Validated commits and audit reports

Repository	Final validated commit	Audit Report
lido-dao	e45c4d6fb8120fd29426b8d969c19d8a798ca974	2023-04-28
gate-seals	7e9704d9f40cd17652480a15f2ca9519d6b532d2	2023-04-20
ShapellaUpgradeTemplate	a19c6b7e2d661de12e2ba585c251c8d70a1da230	2023-05-10

Deployment

File name	Contract deployed on mainnet
DummyEmptyContract.sol	0x6F6541C2203196fEeDd14CD2C09550dA1CbEDa31
OssifiableProxy.sol (LidoLocator)	0xC1d0b3DE6792Bf6b4b37EccdcC24e45978Cfd2Eb
OssifiableProxy.sol (AccountingOracle)	0x852deD011285fe67063a08005c71a85690503Cee
OssifiableProxy.sol (ValidatorsExitBus)	0x0De4Ea0184c2ad0BacA7183356Aea5B8d5Bf5c6e
OssifiableProxy.sol (StakingRouter)	0xFdDf38947aFB03C621C71b06C9C70bce73f12999
OssifiableProxy.sol (WithdrawalQueue)	0x889edC2eDab5f40e902b864aD4d7AdE8E412F9B1
DepositSecurityModule.sol	0xC77F8768774E1c9244BEed705C4354f2113CFc09
OracleReportSanityChecker.sol	0x9305c1Dbfe22c12c66339184C0025d7006f0f1cC
OracleDaemonConfig.sol	0xbf05A929c3D7885a6aeAd833a992dA6E5ac23b09
EIP712StETH.sol	0x8F73e4C2A6D852bb4ab2A45E6a9CF5715b3228B7

File name	Contract deployed on mainnet
Burner.sol	<u>0xD15a672319Cf0352560eE76d9e89eAB0889046D3</u>
HashConsensus.sol (AccountingOracle)	<u>0xD624B08C83bAECF0807Dd2c6880C3154a5F0B288</u>
HashConsensus.sol (ValidatorExitBus)	<u>0x7FaDB6358950c5fAA66Cb5EB8eE5147De3df355a</u>
LidoLocator.sol	<u>0x1D920cc5bACf7eE506a271a5259f2417CaDeCE1d</u>
AccountingOracle.sol	<u>0xF3c5E0A67f32CF1dc07a8817590efa102079a1aF</u>
ValidatorsExitBus.sol	<u>0xA89Ea51FddE660f67d1850e03C9c9862d33Bc42c</u>
StakingRouter.sol	<u>0xD8784e748f59Ba711fB5643191Ec3fAdD50Fb6df</u>
WithdrawalQueueERC721.sol	<u>0xE42C659Dc09109566720EA8b2De186c2Be7D94D9</u>
WithdrawalVault.sol	<u>0xCC52f17756C04bBa7E377716d7062fC36D7f69Fd</u>
LegacyOracle.sol	<u>0xa29b819654cE6224A222bb5f586920105E2D7E0E</u>
NodeOperatorsRegistry.sol	<u>0x8538930c385C0438A357d2c25CB3eAD95Ab6D8ed</u>
Lido.sol	<u>0x17144556fd3424EDC8Fc8A4C940B2D04936d17eb</u>
GateSealFactory.vy	<u>0x6c82877cac5a7a739f16ca0a89c0a328b8764a24</u>
GateSeal.vy (blueprint)	<u>0xEe06EA501f7d9DC6F4200385A8D910182D155d3e</u>
GateSeal.vy (instance)	<u>0x1aD5cb2955940F998081c1eF5f5F00875431aA90</u>
ShapellaUpgradeTemplate.sol	<u>0xa818fF9EC93122Bf9401ab4340C42De638CD600a</u>

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