

Dual Governance deployment validation and script review

Table of contents



1. Project Brief	2
2 Conclusion	

1. Project Brief



Title	Description
Client	Lido
Project name	Dual Governance deployment validation and script review
Timeline	27-05-2025 - 05-06-2025
Initial commit	7480c3cdc813312c0c36d6faf0f7e6e4148ebfb2, 48b6c8cab4e6498b29e844ca21ae5f3238440771
Final commit	7480c3cdc813312c0c36d6faf0f7e6e4148ebfb2, 48b6c8cab4e6498b29e844ca21ae5f3238440771

Short Overview

Lido has requested Statemind to validate the deployment of their Dual Governance contracts and to review service launch contracts.

The purpose of the validation is to ensure that deployed contracts' sources match the audited commit* and has the proper parameters. Review of service launch contracts involves verifying their logic and ensuring compliance with the <u>spec</u> regarding permissions transition.

The validation consists of two main parts:

- Dual Governance contracts: <u>dual-governance/contracts</u>
- Sevice launch contracts dual-governance/scripts/launch

Service launch contracts are part of the strategy for transitioning the current governance system to Dual Governance. Given the large number of roles and entities, they streamline the voting process by enumerating the required actions for activation and providing additional checks. The scope includes four contracts:

- DGLaunchOmnibusMainnet.sol: Defines vote items for Aragon Voting to transfer control of key Lido roles and contracts to Dual Governance. Allows validation of a vote in Aragaon against defined items in the contract.
- DGRolesValidatorMainnet.sol: Ensures correct role assignments during both Aragon vote execution and Dual Governance proposal execution. Prevents unauthorized changes and validates proper role transition.
- DGLaunchStateVerifier.sol: Provides verification of the Dual Governance launch state. Confirms successful dry run and checks emergency protection status.
- TimeConstraints.sol: Specifies timing rules for Dual Governance launch phases. Ensures activation and voting meet required timeframes.

Reference commits and audit reports

Repository	Commit	Audit Report



Notes

* - The deployment was made from commit 7480c3cdc813312c0c36d6faf0f7e6e4148ebfb2, which differs from the final audited one — 3e0f1ae5740ef8410e928f6cc106e3a5f45a5a75. In the new commit, only comments were modified; the actual code remained unchanged.

As a result, on 7480c3cdc813312c0c36d6faf0f7e6e4148ebfb2 commit the deployed contracts have identical bytecode to those in the audited commit.

Project Scope

The audit covered the following files:

Escrow.sol	AssetsAccounting.sol	DualGovernance.sol
EmergencyProtectedTimelock.sol	HashConsensus.sol	ExecutableProposals.sol
<u>DualGovernanceStateMachine.sol</u>	<u>WithdrawalsBatchesQueue.sol</u>	<u>Tiebreaker.sol</u>
<u>EmergencyProtection.sol</u>	DualGovernanceConfig.sol	EscrowState.sol
Proposers.sol	TiebreakerCoreCommittee.sol	<u>DualGovernanceStateTransitions</u>
<u>TiebreakerSubCommittee.sol</u>	<u>Duration.sol</u>	TimelockState.sol
EnumerableProposals.sol	PercentD16.sol	ETHValue.sol
<u>ImmutableDualGovernanceConfigProvider.sol</u>	Timestamp.sol	TimelockedGovernance.sol
Shares Value.sol	<u>ResealManager.sol</u>	IndexOneBased.sol
Resealer.sol	ProposalsList.sol	<u>Executor.sol</u>
SealableCalls.sol	ExternalCalls.sol	DGLaunchOmnibusMainnet.sol
DGRoles Validator Mainnet.sol	DGLaunchStateVerifier.sol	TimeConstraints.sol



2. Conclusion



Deployment have been successfully validated, meaning that:

- Audited commit match the deployed contracts fully.
- Default configurations are correct.
- The contracts are ready for use.

Review have been successfully completed, meaning that:

- · Reviewed commit match the deployed launch service contracts fully.
- The functionality of the launch contracts aligns with the provided specifications*.
- No serious vulnerabilities or undisclosed functionality had been found.

Validated commits and audit reports

Repository	Final validated commit	Audit Report
dual-governance	7480c3cdc813312c0c36d6faf0f7e6e4148ebfb2	2025-02-05

Review

File name	Contract deployed on mainnet
DGLaunchOmnibusMainnet.sol	0x1DB8a9313785b78f7d0a201C5E0BE007f1eb63b4
DGRolesValidatorMainnet.sol	0x31534e3aFE219B609da3715a00a1479D2A2d7981
DGLaunchStateVerifier.sol	0xd48c2fc419569537Bb069BAD2165dC0cEB160CEC
TimeConstraints.sol	0x2a30F5aC03187674553024296bed35Aa49749DDa

Deployment

File name	Contract deployed on mainnet
EmergencyProtectedTimelock.sol	0xCE0425301C85c5Ea2A0873A2dEe44d78E02D2316

^{* –} The DGLaunchOmnibusMainnet.sol contract includes seven additional vote items (51–57). The Lido team has provided comments on each item. The first three items (51–53) are necessary for resetting the RecoveryVaultAppld on DaoKernel, and they also address technical debt related to granting permissions. The remaining items (54–57) include sanity check calls and the Dual Governance proposal.

Executor.sol (Admin executor)	0x23E0B465633FF5178808F4A75186E2F2F9537021
DualGovernance.sol	OxcdF49b058D606AD34c5789FD8c3BF8B3E54bA2db
ImmutableDualGovernanceConfigProvider.sol	Oxa1692Af6FDfdD1030E4E9c4Bc429986FA64CB5EF
TimelockedGovernance.sol	0x553337946F2FAb8911774b20025fa776B76a7CcE
Escrow.sol (Implementation)	0xb84317C0E142D8911A0d69Dc32c48d87753B8d1C
ResealManager.sol	0x7914b5a1539b97Bd0bbd155757F25FD79A522d24
TiebreakerCoreCommittee.sol	0x175742c3DDD88B0192df3EcF98f180A79cb259D0
TiebreakerSubCommittee.sol (Sub Committee 1)	0x74836470337Ba5d2a92fe16E44AD862E28fcf9B3
TiebreakerSubCommittee.sol (Sub Committee 2)	Oxb9d82E1A49f6a66E8a07260BA05Cf9Ac8a938B1C
TiebreakerSubCommittee.sol (Sub Committee 3)	0x7dAdae4e1a0DB43F6bcfA75295666fc044605679



STATE MAIND