

Formal Verification Report

Lido (Dual Governance)

Kontrol Version: 1.0.118

Passing: 18 / 18 Total Errors: 0 Duration: 5h24m32s Timestamp: 12 Feb 2025, 1:12:57 AM

RageQuitTest [test/kontrol/RageQuit.t.sol](#)

Passing: 2 / 2

Failures: 0, Errors: 0

Failing Nodes: 0,
Pending Nodes: 0

Duration: 35m26s

Name	Time	Status	Severity
setUp()	31m13s	Success	
testRageQuitDuration()	4m13s	Success	

VetoCooldownTest [test/kontrol/VetoCooldown.t.sol](#)

Passing: 2 / 2

Failures: 0, Errors: 0

Failing Nodes: 0,
Pending Nodes: 0

Duration: 34m16s

Name	Time	Status	Severity
setUp()	30m24s	Success	
testVetoCooldownDuration()	3m52s	Success	

EscrowAccountingTest [test/kontrol/EscrowAccounting.t.sol](#)

Passing: 5 / 5

Failures: 0, Errors: 0

Failing Nodes: 0,
Pending Nodes: 0

Duration: 1h10m4s

Name	Time	Status	Severity
setUp()	30m54s	Success	

Name	Time	Status	Severity
testRageQuitSupport()	3m23s	Success	
testEscrowInvariantsHoldInitiall y(uint32)	5m35s	Success	
testRequestNextWithdrawalsBa tch()	13m34s	Success	
testClaimNextWithdrawalsBa tch()	16m36s	Success	

EscrowOperationsTest [test/kontrol/EscrowOperations.t.sol](#)

Passing: 4 / 4 Failures: 0, Errors: 0 Failing Nodes: 0, Pending Nodes: 0 Duration: 1h23m56s

Name	Time	Status	Severity
setUp()	31m28s	Success	
testCannotUnlockBeforeMinLoc kTime()	26m10s	Success	
testCannotLockUnlockInRageQ uitEscrowState(uint256)	17m27s	Success	
testCannotWithdrawBeforeEthC laimTimelockElapsed()	8m48s	Success	

ProposalOperationsTest [test/kontrol/ProposalOperations.t.sol](#)

Passing: 5 / 5 Failures: 0, Errors: 0 Failing Nodes: 0, Pending Nodes: 0 Duration: 1h40m48s

Name	Time	Status	Severity
setUp()	30m41s	Success	

Name	Time	Status	Severity
testCannotProposeInInvalidState()	19m29s	Success	
testCannotScheduleInInvalidStates(uint256)	27m8s	Success	
testCannotScheduleSubmissionAfterLastVetoSignalling(uint256)	13m6s	Success	
testOnlyProposalsCancellerCanCancelProposals()	10m23s	Success	

Kontrol Version: 1.0.118**Passing: 6 / 6 Total Errors: 0 Duration: 10h30m37s Timestamp: 09 Feb 2025, 7:45:43 PM**

EscrowLockUnlockTest [test/kontrol/EscrowLockUnlock.t.sol](#)

Passing: 6 / 6**Failures: 0, Errors: 0****Failing Nodes: 0,
Pending Nodes: 0****Duration: 10h30m37s**

Name	Time	Status	Severity
setUp()	17m23s	Success	
testLockStEthNormal(uint256)	34m52s	Success	
testLockStEthVetoSignalling_(uint256)	6h36m46s	Success	
testLockStEthVetoSignallingDeactivation(uint256)	1h48m4s	Success	
testLockStEthVetoCooldown(uint256)	36m24s	Success	
testLockStEthRageQuit(uint256)	37m5s	Success	

Kontrol Version: 1.0.118

Passing: 6 / 6 Total Errors: 0 Duration: 7h40m13s Timestamp: 10 Feb 2025, 9:15:14 PM

EscrowLockUnlockTest [test/kontrol/EscrowLockUnlock.t.sol](#)

Passing: 6 / 6

Failures: 0, Errors: 0

Failing Nodes: 0,
Pending Nodes: 0

Duration: 7h40m13s

Name	Time	Status	Severity
setUp()	31m34s	Success	
testUnlockStEthNormal()	28m47s	Success	
testUnlockStEthVetoSignalling_() ()	3h32m25s	Success	
testUnlockStEthVetoSignallingD eactivation() ()	2h2m37s	Success	
testUnlockStEthVetoCooldown ()	30m33s	Success	
testUnlockStEthRageQuit()	34m15s	Success	

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Passing: 53 / 53 Total Errors: 0 Duration: 3h25m4s Timestamp: 12 Feb 2025, 5:49:07 PM

TimelockInvariantsTest [test/kontrol/TimelockInvariants.t.sol](#)

Passing: 50 / 50

Failures: 0, Errors: 0

Failing Nodes: 0,
Pending Nodes: 0

Duration: 3h2m29s

Name	Time	Status	Severity
setUp()	16m26s	Success	
testOnlyGovernanceCanCancel Proposals(address)	2m47s	Success	
testCancelledProposalsCannot BeScheduled(uint256)	3m5s	Success	
testCancelledProposalsCannot BeExecuted(uint256)	4m12s	Success	
testCancelledProposalsCannot BeEmergencyExecuted(uint25 6)	4m26s	Success	
testSubmit(address,address,uint t96,bytes4,bytes32)	3m48s	Success	
testSubmitRevert(address,addr ess,address,uint96,bytes4,byte s32)	5m32s	Success	
testScheduleDelayHasNotPass edRevert(uint256)	2m41s	Success	
testSchedule(uint256)	4m26s	Success	
testScheduleRevert(address,uint 256)	2m52s	Success	

Name	Time	Status	Severity
testExecuteNonScheduledRevert(uint256)	4m2s	Success	
testExecute(uint256)	9m30s	Success	
testExecuteExecutedRevert(uint256)	3m31s	Success	
testExecuteDelayHasNotPassedRevert(uint256)	3m46s	Success	
testCancelAllNonExecutedProposals(uint256)	5m4s	Success	
testSetGovernanceRevert(address,address)	2m54s	Success	
testSetGovernance(address)	2m44s	Success	
testSetAfterSubmitDelayRevert(address,uint32)	2m55s	Success	
testSetAfterSubmitDelay(uint32)	3m2s	Success	
testSetAfterScheduleDelayRevert(address,uint32)	2m56s	Success	
testSetAfterScheduleDelay(uint32)	2m58s	Success	
testTransferExecutorOwnership(address)	2m44s	Success	
testTransferExecutorOwnershipRevert(address,address,address)	3m1s	Success	
testSetEmergencyProtectionActivationCommittee(address)	2m42s	Success	
testSetEmergencyProtectionActivationCommitteeRevert(address,address)	2m54s	Success	

Name	Time	Status	Severity
testSetEmergencyProtectionExecutionCommitteeRevert(address,address)	2m56s	Success	
testSetEmergencyProtectionExecutionCommittee(address)	2m41s	Success	
testSetEmergencyProtectionEndDateRevert(address,uint40)	2m56s	Success	
testSetEmergencyProtectionEndDate(uint40)	2m53s	Success	
testSetEmergencyModeDuration(uint32)	2m52s	Success	
testSetEmergencyModeDurationRevert(address,uint32)	2m54s	Success	
testSetEmergencyGovernanceRevert(address,address)	2m56s	Success	
testSetEmergencyGovernance(address)	2m49s	Success	
testActivateEmergencyModeRevert(address)	2m51s	Success	
testActivateEmergencyMode()	2m43s	Success	
testActivateEmergencyModelEmergencyRevert()	1m41s	Success	
testActivateEmergencyAfterEndDateRevert()	1m47s	Success	
testEmergencyExecuteNormalModeRevert(uint256)	1m40s	Success	
testEmergencyExecuteExecuteRevert(uint256)	3m39s	Success	
testEmergencyExecute(uint256)	6m2s	Success	

Name	Time	Status	Severity
testEmergencyExecuteNonScheduledRevert(uint256)	4m9s	Success	
testEmergencyExecuteRevert(address,uint256)	3m4s	Success	
testDeactivateEmergencyModeNormalModeRevert(uint256)	1m37s	Success	
testDeactivateEmergencyMode(uint256)	5m36s	Success	
testDeactivateEmergencyModeRevert(address,uint256)	3m14s	Success	
testEmergencyResetNormalModeRevert(uint256)	1m43s	Success	
testEmergencyReset(uint256)	5m44s	Success	
testEmergencyResetRevert(address,uint256)	2m55s	Success	
testSetAdminExecutorRevert(address,address)	2m57s	Success	
testSetAdminExecutor(address)	2m43s	Success	

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TimelockedGovernanceTest [test/kontrol/TimelockedGovernance.t.sol](#)

Passing: 3 / 3 Failures: 0, Errors: 0 Failing Nodes: 0, Pending Nodes: 0 Duration: 22m34s

Name	Time	Status	Severity
setUp()	15m46s	Success	

Name	Time	Status	Severity
testSubmitProposalRevert(address,(address,uint96,bytes)[],string)	3m52s	Success	
testCancelAllPendingProposals Revert(address)	2m55s	Success	

Kontrol Version: 1.0.118**Passing: 5 / 5 Total Errors: 0 Duration: 51m26s Timestamp: 07 Feb 2025, 3:02:03 PM**

VetoSignallingTest [test/kontrol/VetoSignalling.t.sol](#)

Passing: 5 / 5**Failures: 0, Errors: 0****Failing Nodes: 0,
Pending Nodes: 0****Duration: 51m26s**

Name	Time	Status	Severity
setUp()	17m48s	Success	
testTransitionNormalToVetoSignalling()	3m1s	Success	
testVetoSignallingInvariantsHoldInitially()	5m56s	Success	
testVetoSignallingInvariantsArePreserved(uint256,uint128,uint128)	19m7s	Success	
testDeactivationNotCancelled(uint256,uint128,uint128)	5m32s	Success	