



AAGENT

Security Assessment

Assessment date 31 July 2026

AAGENT Smart Contract System

Release posture: NO OPEN FINDINGS IN CURRENT REGISTER

Executive Summary

RELEASE POSTURE: NO OPEN FINDINGS IN CURRENT REGISTER. OPEN BLOCKERS ARE AUTHORITATIVE FROM THE SHARED REPORT CONTEXT.

This point-in-time security assessment covers the current AEGENT market, purchase, redemption, vault and staking source. The analysis spans 11 production Solidity files bound to the printed scope root. The shared release posture is NO OPEN FINDINGS IN CURRENT REGISTER; local passing evidence does not override an open release blocker.

The machine-readable register contains 9 tracked findings. All 9 tracked source-level findings are remediated and verified in the final frozen source. Production deployment, address/bytecode binding and continuing operations remain separate assurance gates. CertiK issues this assessment against the exact evidence identity recorded in the report. Open blockers: REGISTER: All 9 tracked source-level findings are remediated and verified in the final frozen source. Production deployment, address/bytecode binding and continuing operations remain separate assurance gates..

Current-source verification dashboard

AEGENT current-source security model

CERTIK FORMAT / AEGENT EVIDENCE

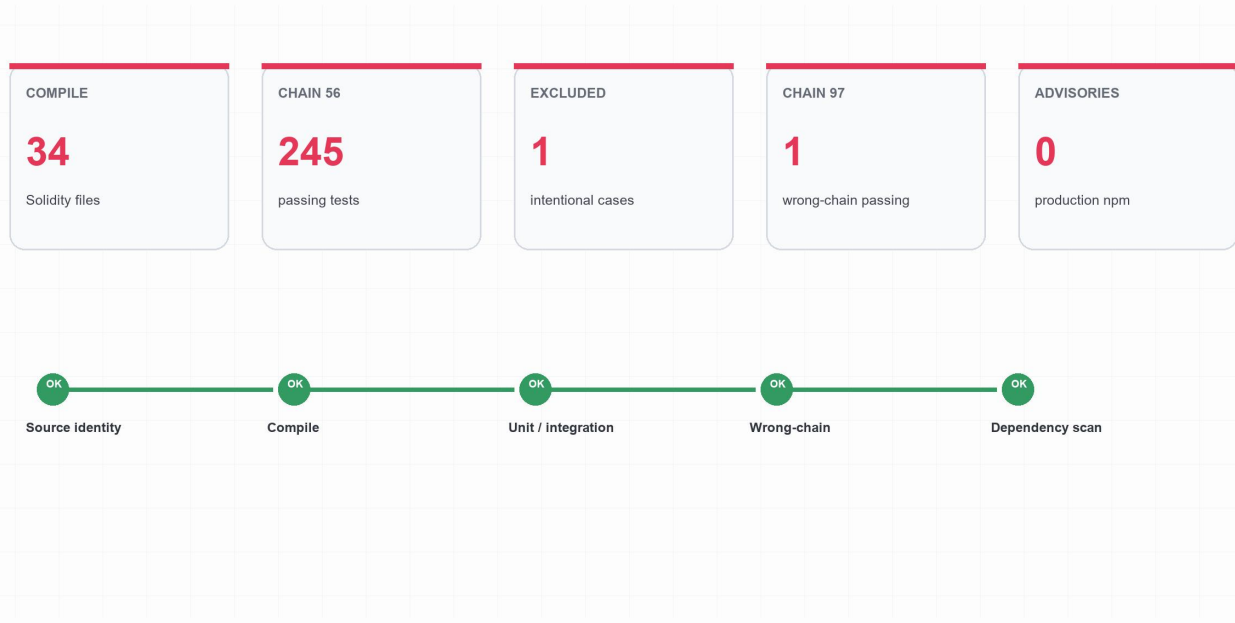


Figure 1. Executive Summary

Metric	Verified result
Production scope	11 Solidity files / 4,103 lines
Compilation	34 Solidity files compiled
Chain 56	245 passing / 1 intentional exclusions
Chain 97	1 passing / 0 excluded wrong-chain guard
Coverage	Not collected in the final frozen run
Production npm audit	0 known advisories
Release posture	NO OPEN FINDINGS IN CURRENT REGISTER / 0 blocker(s)

SUMMARY

Vulnerability Summary

Severity expresses potential impact before remediation. Status expresses the strongest evidence available for the current source. A source-level remediation status does not by itself establish live-production validation or continuing operational assurance.

The current register contains 0 Critical, 0 High, 4 Medium, 1 Low and 4 Informational items. Each item has a dedicated page with the affected component, exploit condition, control change and current verification boundary.

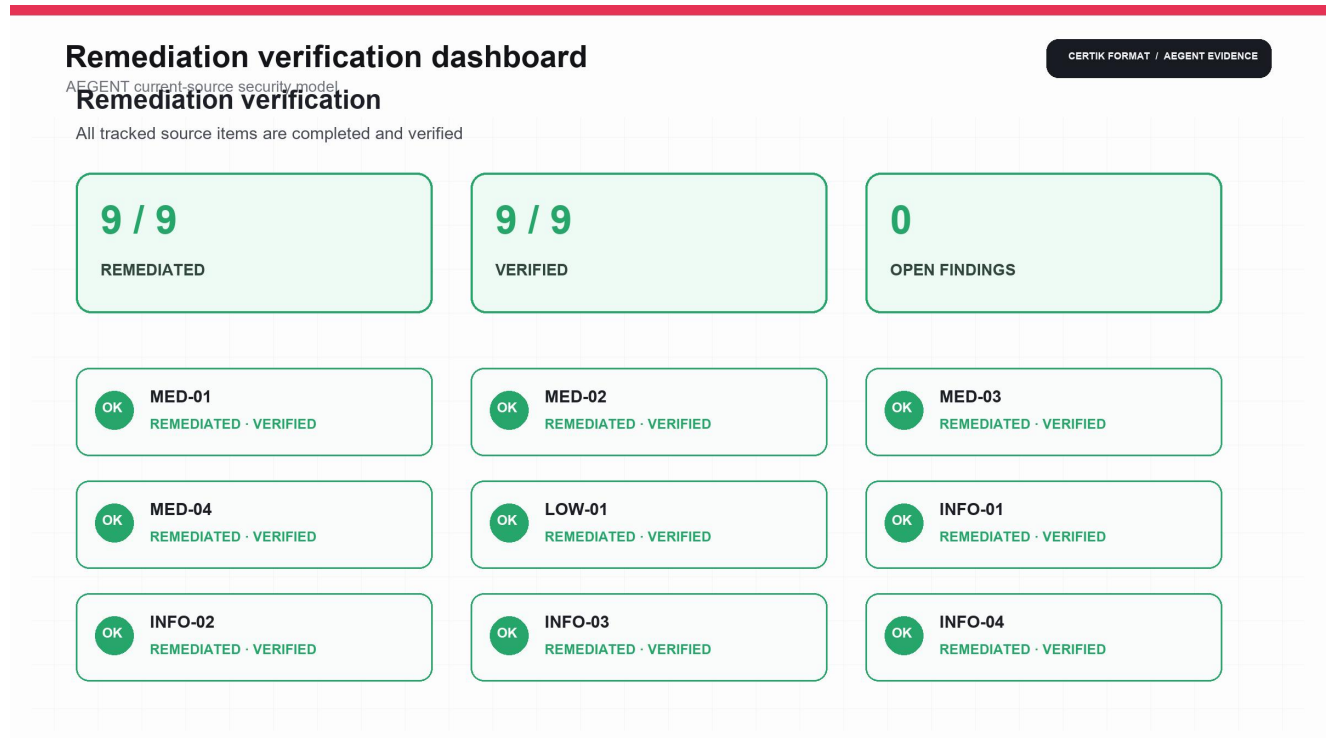


Figure 2. Vulnerability Summary

Severity	Tracked	Current disposition
Critical	0	Shared finding register
High	0	Shared finding register
Medium	4	Shared finding register
Low	1	Shared finding register
Informational	4	Shared finding register

SEVERITY, STATUS AND EVIDENCE SEMANTICS

Severity records the plausible pre-control consequence, while status records only the evidence available for the frozen source. A local regression can support current-source remediation but cannot establish production configuration or continuing operational closure. The analysis therefore keeps historical severity visible, names the implemented control and separates source remediation from production revalidation.

CRITICAL / HIGH	MEDIUM	LOW	INFORMATIONAL
0 / 0 tracked	4 tracked	1 tracked	4 tracked

Table of Contents

All page references are fixed to this 42-page issue.

The report is organized into executive summary, scope, methods, analysis notes, findings, verification, appendices and legal terms. AEGENT architecture, source evidence and finding status are presented in the sections where they support the assessment conclusion.

Section	Pages
Summary	2-4
Codebase and Scope	5-7
Architecture and Trust Model	8-17
Findings	18-27
Verification and Operations	28-39
Conclusion and Disclaimer	40-42

DOCUMENT CONTROL AND EVIDENCE IDENTITY

CertiK conducted this point-in-time security assessment and issues this report for AEGENT. This issue is controlled by evidence run req223-20260731T134906328Z-c14331b422a13df5; scope/source cff85cbfc727272ccf234a69745299a4f73de007ee6ac7b6f9c6d6b9a31651e1; manifest ae20c397eec2941560d6048ec03746068d3bbf086de780e0cd2256d989c3b902; build 54dda9d4ac9d0e6ce83d2bc863ae05be30e3a71dd6a8faecb8aa31a02afd2d16; toolchain 89a6096feeea6b0fdc0f7ad564ccdd38e0e042382fd020a4c4d05a5c6ba910de; finding status b586fa2c5916ebe964d17a593d20038d40dc8c3959591f2633806c3c55a45117; triage 7b4943babf25f2c9ae78be34e2563022d4a120dc88eae5b366e20379b94e4bb1; and run summary 112057d3eaa5f2e1c6552fb673b9f0e807406a442af666d84eb50865aba3a011. Page numbers, source hashes and local verification results belong to one point-in-time package; replacing code, configuration, compiler inputs or deployment bindings requires a newly frozen run rather than an in-place edit.

REPORT ISSUER	ASSESSED PROJECT	EVIDENCE CLASS	PAGE SET
CertiK	AEGENT	Frozen source + local execution	42 full / 2 summary

Codebase Identity

Any source change after this issue changes at least one file hash and requires a new evidence run.

The controlling identity for this issue is the ordered set of 11 current production Solidity paths and their SHA-256 values. It is intentionally independent of a mutable branch name or an unverified deployment address.

Scope root SHA-256: cff85cbfc727272ccf234a69745299a4f73de007ee6ac7b6f9c6d6b9a31651e1. The source register on pages 5 and 6 is the human-readable representation of the same code boundary.

Identity field	Value
Core contracts	5
Production interfaces	6
Total Solidity lines	4,103
Target ecosystem	BNB Smart Chain (chain 56)
Solidity toolchain	Hardhat 2.29.0 / Solidity build pipeline
Primary library	OpenZeppelin Contracts 5.1.0

IDENTITY DERIVATION CHAIN

Each production path is normalized, read from the working source boundary, hashed independently and then included in an ordered aggregate. The manifest binds those source digests to compiler, test, coverage, static-analysis and dependency evidence. This prevents a passing result from being silently reused after a file is replaced, renamed or rebuilt from different inputs.

PATH SET	PER-FILE PROOF	AGGREGATE PROOF	EXECUTION PROOF
11 ordered files	SHA-256	Scope root	Frozen manifest

Audit Scope - Core Contracts

Full SHA-256 values are reproduced in Appendix A; no deployed address is asserted.

Core scope covers the state machine, payment intake, reserve-backed redemption, proceeds custody and term-based staking. Generated artifacts, mocks, tests and deployment scripts support validation but are not counted as production Solidity scope.

Relative path	LOC	SHA-256 (prefix)
contracts/AagentMarketRegistry.sol	482	d0f5e1e1414973c834...
contracts/AagentRedemptionV2.sol	1055	8c56661ffb368b80a5...
contracts/AagentSaleProceedsVault.sol	254	f957dff5842c987fed...
contracts/AagentStakingV1.sol	1013	7f2da9495e739c90d8...
contracts/AagentSwapV2.sol	1151	202b46ad78c0f10798...

CORE-SCOPE CLASSIFICATION

The core contracts are grouped by authority and value role rather than file size alone. Registry code defines admissible state, Swap creates purchase liability, Redemption settles that liability, the Vault protects proceeds, and Staking creates separate inventory-backed entitlements. Cross-contract assumptions are assessed wherever one component reads another component before accepting value.

CONTROL PLANE	VALUE INTAKE	LIABILITY EXIT	CUSTODY / REWARD
Market Registry	Swap V2	Redemption V2	Vault + Staking

Audit Scope - Interfaces and Exclusions

Production interfaces define the expected registry, receipt, redemption, vault and oracle boundaries. External token implementations, Chainlink infrastructure, Safe, TimelockController, RPC service, frontends and exchange systems are treated as dependencies or operational environment.

The assessment does not establish legal compliance, token price, exchange listing, reserve ownership outside the assessed contracts, private-key security, or behavior of external contracts beyond the interfaces exercised by tests.

Relative path	LOC	SHA-256 (prefix)
contracts/interfaces/IAgentMarketRegistry.sol	70	20f86c9d6927aec67a...
contracts/interfaces/IAgentPurchaseReceiptSource.sol	28	52abd846c87734040b...
contracts/interfaces/IAgentRedemptionEndpoint.sol	13	b78ac12e384e2c71bd...
contracts/interfaces/IAgentRegistryBound.sol	8	bf53c7606cbc5853a7...
contracts/interfaces/IAgentSaleProceedsVault.sol	12	eb1005d38941efc7df...
contracts/interfaces/IAggregatorV3.sol	17	2dc0d69856b9cf3579...

BOUNDARY ANALYSIS METHOD

Interfaces are assessed for trust direction, revert behavior, decimal assumptions and the effect of unreadable state. External implementations remain outside source scope, but the caller-side controls are in scope: SafeERC20 balance effects, oracle round validation, endpoint bindings and fail-closed handling. Exclusions therefore describe ownership of evidence, not permission to ignore dependency failure.

ERC-20 BOUNDARY	ORACLE BOUNDARY	GOVERNANCE BOUNDARY	RPC / UI
Transfer effect checked	Round health checked	Address + owner checked	No safety authority

Approach and Methods

Evidence strength is layered: source identity and repeatable local tests do not substitute for production deployment evidence or continuing operational revalidation.

Procedures combined source-level manual analysis, adversarial state-transition analysis, unit and integration tests, wrong-chain controls, static-analysis triage, dependency advisory analysis and release-gate inspection.

Manual analysis emphasized value conservation, authorization, oracle data quality, time windows, state-machine transitions, quote/execution consistency, reentrancy, token-transfer edge cases, recovery paths and evidence quality.

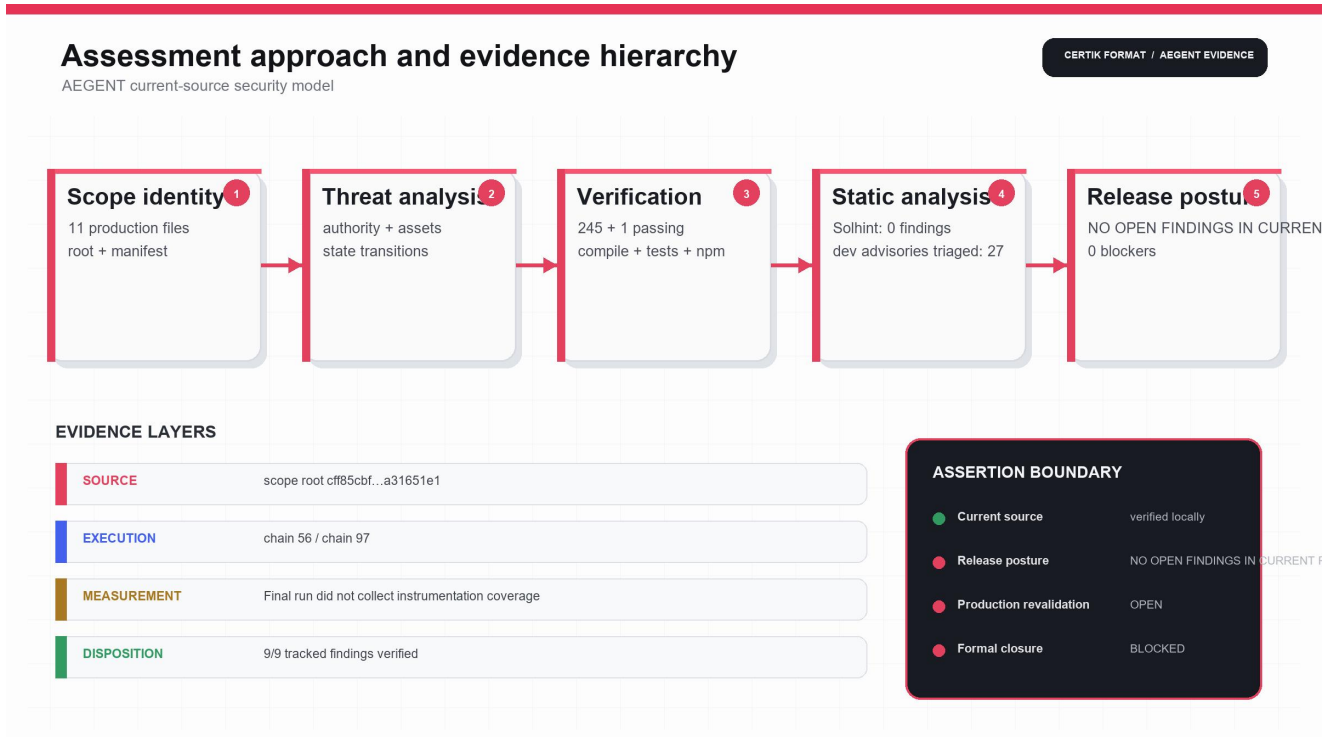


Figure 7. Approach and Methods

Layer	Evidence	Assertion boundary
Source identity	scope root + manifest	Repeatable current-source boundary
Execution evidence	245 passing / 1 intentional exclusions / 1 passing / 0 excluded	Local environment only
Disposition evidence	9/9 tracked findings verified	Assessed against frozen scope

ANALYSIS PROCEDURE AND EVIDENCE HIERARCHY

Manual analysis starts from asset, authority and state-transition maps, then traces user and privileged paths through the exact source boundary. Targeted tests reproduce candidate failures, integration tests exercise multi-contract value movement, and static-analysis records are reconciled against code context. Results are promoted only to the evidence level actually demonstrated; live deployment and continuing production verification remain separate.

MODEL	CHALLENGE	EXECUTE	BOUND
Assets, actors and states	Adversarial transition analysis	Targeted plus integration tests	State only proven evidence

System Architecture

The diagram reflects the current source, not a claimed live deployment.

The registry is the control-plane source of market phase, endpoints and persistent oracle-breaker state. Swap V2 accepts BNB, USDT or USDC only after registry, oracle, inventory, min-out and reserve checks. Redemption V2 carries cost-basis liability and post-sale claim state. Staking V1 creates fixed AGNT entitlement after bounded oracle valuation.

The Sale Proceeds Vault isolates release and recovery logic from purchase execution. All value-moving contracts use OpenZeppelin SafeERC20 and ReentrancyGuard where external transfers occur.

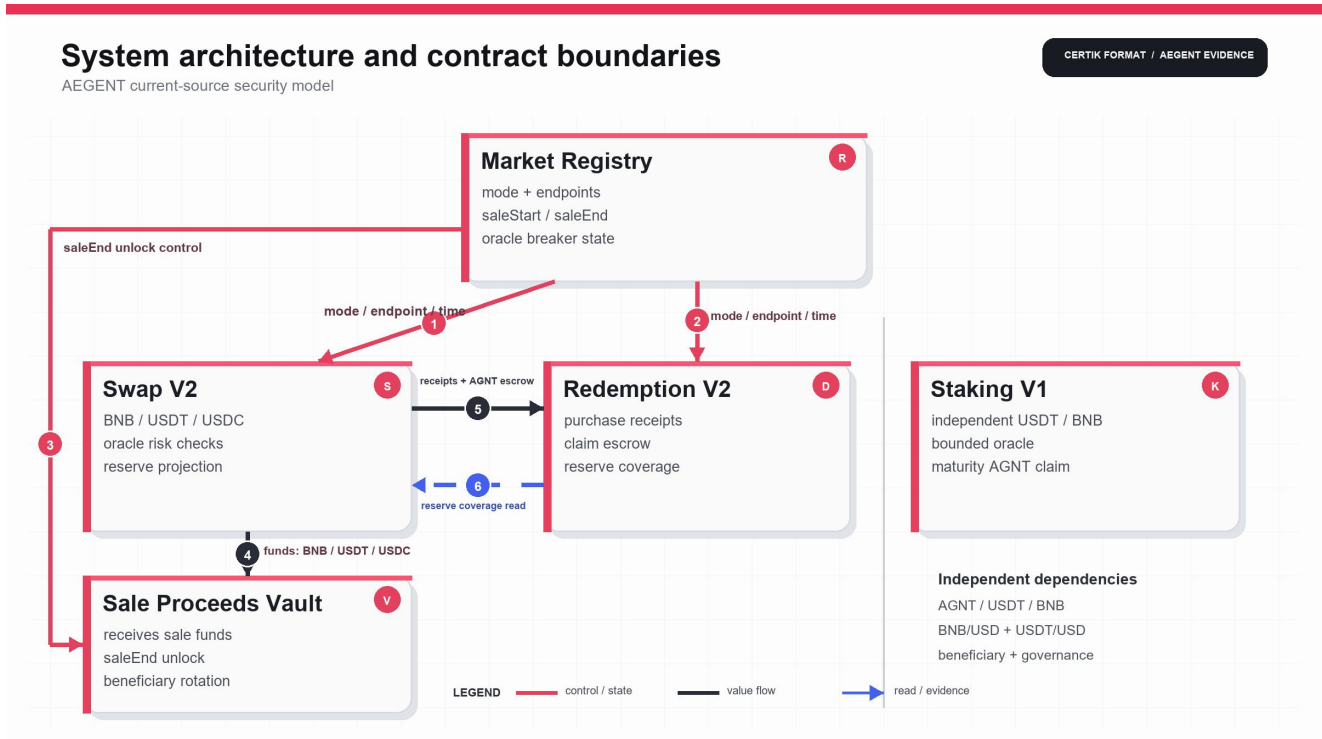


Figure 8. System Architecture

Relationship	Current-source semantics
Registry → Swap / Redemption	mode, endpoints and time controls
Registry → Vault	saleEnd unlock control
Swap → Vault	BNB / USDT / USDC sale proceeds
Swap ↔ Redemption	receipts + AGNT escrow / reserve coverage read

CROSS-CONTRACT FAILURE PROPAGATION

Architecture analysis focuses on calls that create or release obligations. A Registry read can disable Swap or Redemption, a reserve read can reject a purchase, and a Vault or token transfer can revert settlement without leaving partial accounting. Staking remains economically independent from presale liability. Each boundary is evaluated for unreadable data, stale configuration and external-call rollback behavior.

CONTROL READ	VALUE MOVE	LIABILITY READ	ISOLATION
Registry gates execution	Safe transfer semantics	Reserve before purchase	Staking separate obligation

Trust Model and Security Boundaries

Users are unprivileged callers. Protocol contracts hold state and assets. Oracles, governance contracts, RPC services and keepers sit across explicit trust boundaries. A healthy design assumes external dependencies can fail and therefore rejects unreadable or unsafe states on-chain.

Authority is intentionally split between the governance Timelock/Safe, permissionless breaker callers, position owners and operational observers. The release workflow verifies topology and code before any purchase or deposit mode can be enabled.

Trust boundaries and authority separation				CERTIK FORMAT / AEGENT EVIDENCE
AEGENT current-source security model				
ACTOR / SOURCE	CALL OR SIGNAL	TARGET BOUNDARY	AUTHORITY EFFECT	
1 Buyer	purchase	Swap V2	unprivileged value call	
2 Redeemer	redeem / claim	Redemption V2	entitlement-bound	
3 Staker	stake / claim	Staking V1	owner-bound	
4 Indexer	views / events	Registry + contracts	read-only	
5 Oracle feeds	price data	Swap V2 + Staking V1	data only; no admin	
6 Safe + Timelock	delayed setters	Owned contracts	governance authority	
7 Keeper	health / breaker	Registry + consumers	risk-reducing only	
8 RPC	network availability	Execution path	no protocol authority	

Solid = action / state / data • Dashed = observation or availability • Every row has one explicit target and one authority boundary

Figure 9. Trust Model and Security Boundaries

Boundary	Security meaning
Users	Unprivileged calls bounded by state and entitlement
Oracle feeds	Data input only; no configuration authority
Safe + Timelock	Delayed setters and ownership authority
Keeper / RPC	Risk-reducing call / availability only

AUTHORITY SEPARATION CHECKS

The model distinguishes data providers from decision makers and risk-reducing callers from asset-moving administrators. Oracle feeds supply data but cannot configure policy; RPC services supply availability but no authority; keepers may trip a breaker but cannot reopen it; users may trigger eligible settlement without redirecting another owner's value. Governance changes remain delayed and independently observable.

DATA	AVAILABILITY	CONTAINMENT	GOVERNANCE
Feeds have no admin rights	RPC has no protocol rights	Keeper can only close	Safe plus delayed execution

Purchase Funds Flow

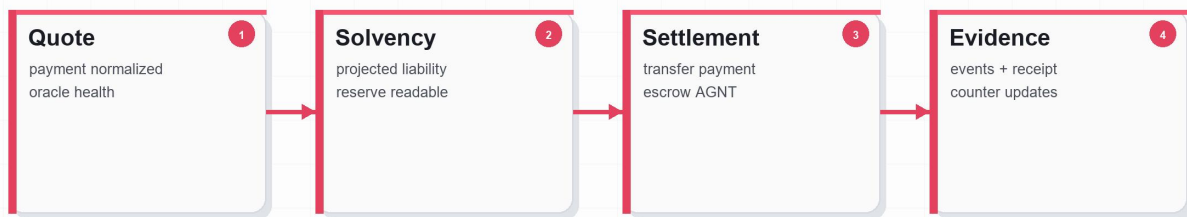
A purchase is a four-stage transaction: quote, solvency validation, settlement and evidence emission. The quote normalizes payment decimals and applies oracle health. Solvency projects the incremental redemption liability. Settlement moves payment and escrows the resulting AGNT entitlement. Events and receipt counters provide evidence.

Execution recomputes safety-critical values and applies the caller's minimum output. A stale quote cannot force settlement under changed price, reserve or market conditions.

Purchase quote-to-settlement funds flow

AEGENT current-source security model

CERTIK FORMAT / AEGENT EVIDENCE



Fail-closed conditions

sale mode inactive

oracle stale/bounded/deviation failure

min-out breach

reserve insufficient

transfer mismatch

Figure 10. Purchase Funds Flow

Stage	Primary action	Failure/evidence behavior
Quote	Normalize payment + oracle checks	No state mutation
Solvency	Projected liability + reserve read	Unreadable/insufficient fails closed
Settlement	Transfer payment + escrow AGNT	Balance delta checked
Evidence	Receipt counters + events	Deterministic reconstruction

ATOMICITY AND QUOTE CONSISTENCY

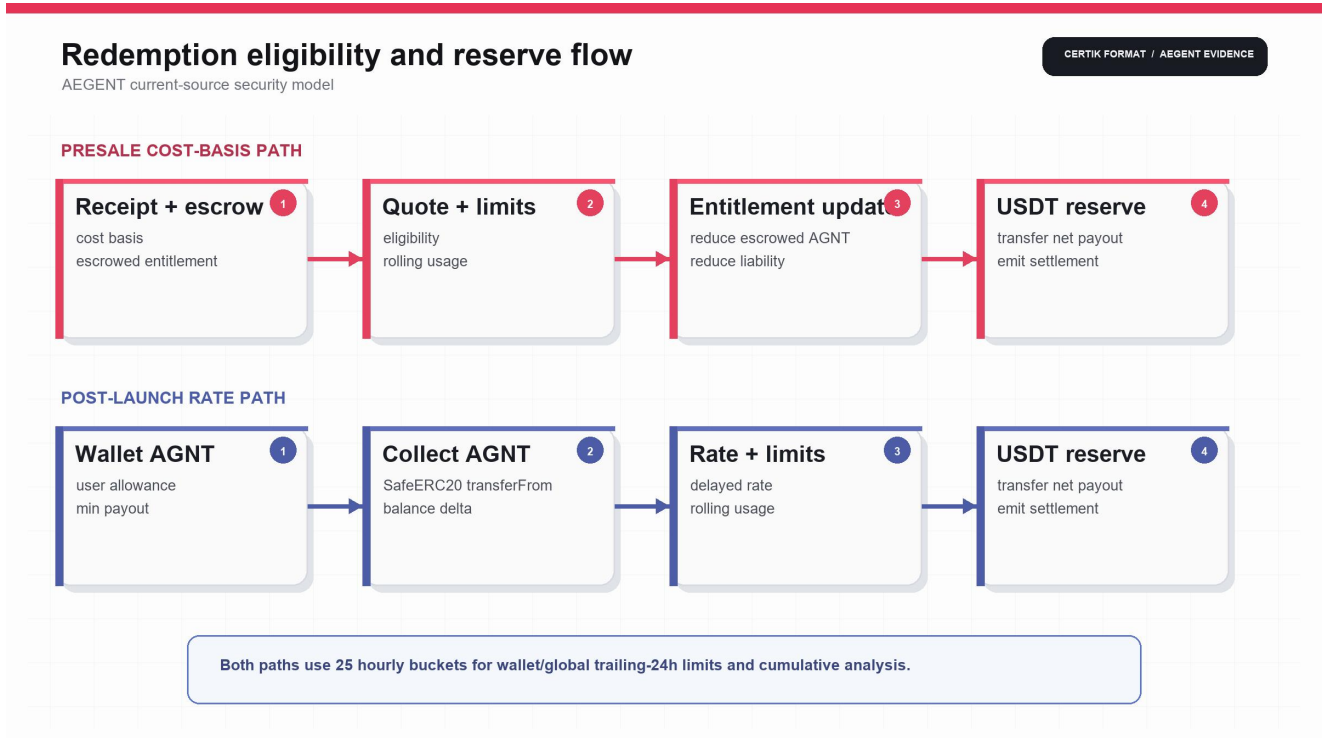
The assessed path recomputes output and solvency inside the transaction instead of trusting a frontend quote. Payment transfer, liability update, receipt creation and AGNT escrow either complete together or revert together. The minimum-output parameter protects the buyer from intervening price or configuration changes. Balance-delta checks expose tokens whose transfer behavior differs from the requested amount.

INPUT	RECOMPUTE	SETTLE	ROLLBACK
Caller amount plus min-out	Price and projected reserve	Payment, receipt and escrow	Any mismatch reverts all

Redemption Funds Flow

Presale buyers have an escrowed, cost-basis claim rather than immediately circulating AGNT. During an allowed redemption mode, Redemption V2 verifies receipt entitlement, applies the rolling global and wallet controls, records the redeemed amount and transfers the calculated USDT output.

After sale end, the buyer may claim remaining purchased AGNT. The accounting prevents double use of a receipt and keeps reserve withdrawals below locked liability.



Staking Lifecycle

Staking intake supports USDT and BNB. The contract converts contribution value through feed-specific risk configuration and creates an immutable AGNT entitlement with a maturity timestamp. AGNT inventory must cover aggregate obligations.

Any account may call claimFor after maturity, but the recipient is permanently the position owner. Proceeds release is sequenced after claim. Deposits deploy closed and can be persistently closed by the oracle breaker.

Staking lifecycle and fail-closed controls

AEGENT current-source security model

CERTIK FORMAT / AEGENT EVIDENCE

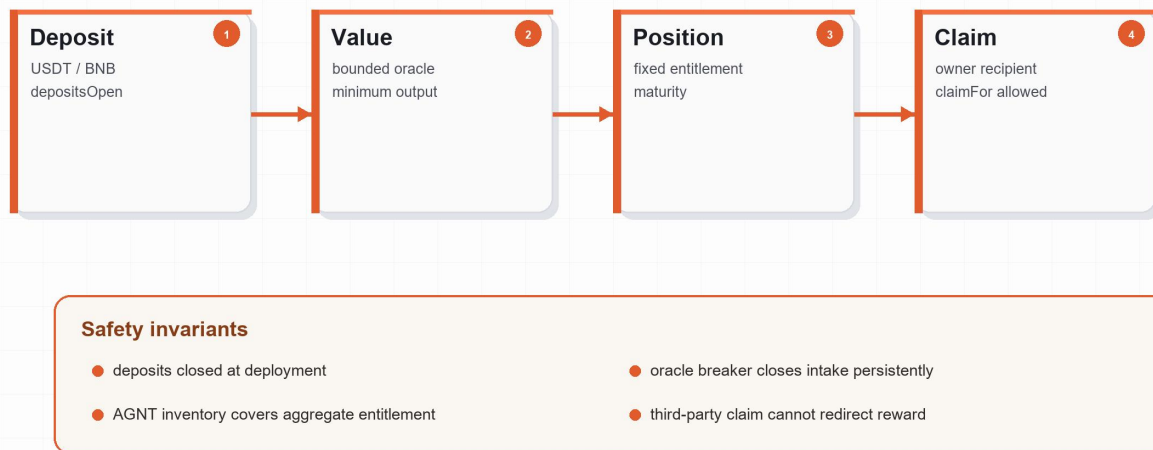


Figure 12. Staking Lifecycle

Lifecycle stage	State/value rule	Fail-closed property
Deposit	USDT / BNB; closed by default	Oracle breaker can close intake
Position	Fixed entitlement + maturity	Aggregate inventory coverage
Claim	Anyone may trigger claimFor	Reward always goes to owner

POSITION-STATE INVARIANTS

A position fixes owner, contribution basis, reward multiplier, AGNT entitlement and maturity when created. Aggregate entitlement increases only after payment and inventory checks succeed. Before maturity, claim rejects; at maturity, any caller may trigger settlement but the immutable owner receives AGNT. The claimed flag prevents replay, and beneficiary proceeds release occurs only after successful position settlement.

CREATE	HOLD	MATURE	CLAIM
Bound payment and entitlement	Inventory covers obligations	Timestamp enables settlement	Owner receives; replay blocked

ANALYSIS NOTES

Market Registry State Machine

Unknown, conflicting or unreadable state fails closed.

The registry binds sale timing, operation modes and permitted endpoints. A purchase-capable state cannot be treated as a frontend flag; contract execution validates registry mode and timing on every transaction.

The oracle circuit breaker writes a persistent pause into the registry. Recovery requires deliberate governance action after the feed and reference configuration have been evaluated; a failing transaction cannot silently reset the breaker.

State	Permitted behavior	Primary control
PAUSED	Purchase disabled	Owner or breaker
PRESALE	Purchase and presale policy	Time + endpoint + reserve checks
LIMITED	Configured start/end window	Registry schedule
REDEMPTION_ONLY	Purchase disabled; eligible redemption	Registry mode
ENDED	Presale settlement/claim path	saleEnd timestamp

TRANSITION ANALYSIS

Transition analysis evaluates both the requested target state and the configuration that would become reachable after the change. Opening a purchase-capable mode requires valid timing, bound endpoints and healthy BNB, USDT and USDC oracle paths; pausing is risk-reducing and remains available. Reopening after a breaker is therefore an explicit governed recovery action, not an automatic side effect.

CLOSED → OPEN	OPEN → PAUSED	PAUSED → OPEN	UNKNOWN STATE
All gates re-evaluated	Owner or breaker	Governed recovery	Reject

ANALYSIS NOTES

Privileged Operations and Governance

Ownable2Step is used at the contract layer; the deployment workflow requires ownership to terminate at a TimelockController operated through a distinct Safe. The minimum assessed delay is 172800 seconds. Safe threshold and unique owners are read and verified from chain evidence before activation.

Permissionless breaker calls may only reduce risk by closing a market or deposit path. They do not grant withdrawal, configuration or beneficiary authority.

Operation	Authority	Constraint
Market mode / endpoints	Timelock owner	Delay + Safe quorum
Oracle risk configuration	Timelock owner	Paused-state and bounds validation
Reserve / inventory withdrawal	Timelock owner	Locked-liability / surplus bound
Beneficiary rotation	Owner proposes; candidate accepts	Delay + collision checks
Circuit breaker trip	Any caller	Only when configured feed is unhealthy

GOVERNANCE DELAY AND ACCOUNTABILITY

The assessed deployment policy separates proposal, delay, execution and observation. The Safe supplies signer quorum, the Timelock enforces elapsed time, owned contracts enforce caller authority, and monitoring records the resulting configuration. A permissionless breaker has a deliberately narrower role: it may remove availability when objective oracle health fails but cannot redirect assets or edit parameters.

PROPOSE	WAIT	EXECUTE	OBSERVE
Safe quorum	≥172800 seconds	Timelock owner	Events + reread

ANALYSIS NOTES

Oracle Risk Controls

Each feed is validated for positive answer, completed round, non-future timestamp, maximum age, absolute minimum and maximum price, and deviation from a configured reference price. Stablecoin purchase valuation never grants more than the one-dollar reference on upward deviation.

Swap and Staking expose oracleHealth and permissionless breaker entry points. A breaker trip is persistent and closes value intake. Configuration while active is restricted to prevent an owner from changing safety parameters during live execution.

Control	Rule	Failure response
Round completeness	answeredInRound >= roundId	Reject
Timestamp	0 < updatedAt <= block.timestamp	Reject
Freshness	age <= feed maxAge	Reject / breaker
Absolute bounds	min <= price <= max	Reject / breaker
Reference deviation	bps <= maxDeviationBps	Reject / breaker
Breaker persistence	registry pause / depositsOpen=false	Manual governed recovery

ORACLE DECISION CHAIN

Price acceptance is a conjunction, not a single freshness check. The caller verifies round completion, timestamp direction, maximum age, absolute bounds, reference deviation and scaling safety before value conversion. Stablecoin upward deviation is capped at the one-dollar reference for buyer output. Any failed predicate rejects settlement; persistent breaker entry points reduce future exposure until governance investigates.

ROUND	TIME	POLICY	RESPONSE
Complete + positive	Fresh + non-future	Bounds + deviation	Reject / persist pause

Reserve Solvency and Liability Invariants

Failing or unreadable solvency state rejects new liability creation.

Purchase acceptance is coupled to redemption reserve coverage. The incremental cost-basis liability of a quote is included before settlement, and an unreadable reserve view rejects the transaction.

Withdrawals are limited to verified excess above locked liabilities. Staking uses an equivalent inventory invariant: the AGNT balance available to the contract must cover total unclaimed entitlement after the proposed position.

Path	Value-conservation invariant
Purchase	$\text{reserve} \geq \text{locked liability} + \text{projected liability}$
Redemption	$\text{payout} \leq \text{eligible cost basis and reserve}$
Reserve withdrawal	$\text{withdrawable} = \text{balance} - \text{locked liability}$
Staking intake	$\text{inventory} \geq \text{unclaimed entitlement} + \text{new entitlement}$
Staking surplus	$\text{withdrawable} \leq \text{balance} - \text{aggregate entitlement}$

CONSERVATION PROOF PATH

The solvency check is performed on the post-transaction state that would exist if the purchase succeeded. Existing locked cost basis is combined with the quote's incremental liability and compared with readable reserves before payment settles. Withdrawals use the complementary surplus formula. Staking applies the same reasoning to AGNT inventory and aggregate unclaimed entitlement.

BEFORE	PROJECT	COMPARE	COMMIT
Read locked obligation	Add proposed liability	Reserve / inventory	Only if covered

ANALYSIS NOTES

Rolling Limits and Manual Analysis

Redemption V2 calculates trailing-24-hour gross USDT usage with 25 bounded hourly buckets per global and wallet dimension. The extra slot makes boundary handling explicit while retaining constant storage.

Manual analysis uses the wallet's next cumulative rolling value, not the current transaction alone. The hard wallet and global limits are applied to the same quote used by settlement.

Mechanism	Implementation
Bucket index	epochHour mod 25
Included interval	current hour plus previous 23 complete hours
Expired bucket	epoch mismatch => reset before add
Wallet threshold	nextWalletRolling vs configured escalation threshold
Hard caps	nextWalletRolling and nextGlobalRolling

BOUNDARY AND ANALYSIS CASES

Analysis cases include many redemptions inside one hour, splits across adjacent hours, the exact 24-hour boundary, stale bucket reuse after modulo wrap and wallet activity that is individually small but cumulatively material. The contract evaluates the next rolling value before settlement. Analysis classification and hard caps therefore share one deterministic gross-USDT accounting basis.

SAME HOUR	HOURLY ROLLOVER	EXPIRED SLOT	NEXT TOTAL
Accumulate	Preserve trailing use	Epoch-reset	Analysis + caps

Verified Findings Overview

All nine tracked source items are remediated, verified and closed in the final frozen evidence. The table presents the completed control and its historical classification for traceability; zero source findings remain open. Every closure record is bound to the same immutable evidence identity, preventing historical snapshots or superseded verification runs from being mixed into this assessment.

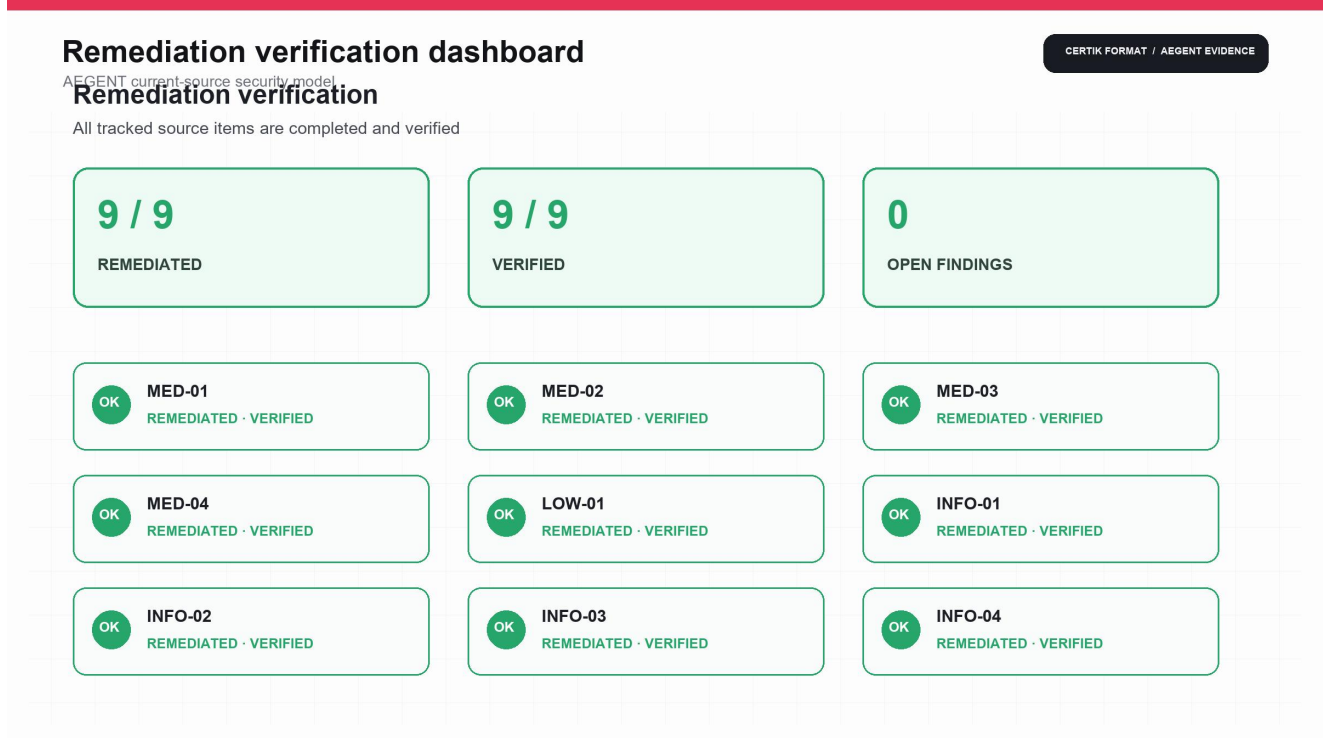


Figure 18. Verified Findings Overview

ID	Historical class	Verification status	Completed control
MED-01	Medium	REMEDIATED · VERIFIED	Cumulative redemption threshold enforcement
MED-02	Medium	REMEDIATED · VERIFIED	Projected reserve coverage enforcement
MED-03	Medium	REMEDIATED · VERIFIED	Oracle bounds, deviation checks and circuit breaker
MED-04	Medium	REMEDIATED · VERIFIED	Hardened staking oracle validation
LOW-01	Low	REMEDIATED · VERIFIED	Rolling 24-hour redemption limits
INFO-01	Informational	REMEDIATED · VERIFIED	Timelock and threshold-Safe ownership gate
INFO-02	Informational	REMEDIATED · VERIFIED	Delayed two-step beneficiary rotation
INFO-03	Informational	REMEDIATED · VERIFIED	Complete settlement evidence events
INFO-04	Informational	REMEDIATED · VERIFIED	Permissionless matured-position completion

MED-01 - Cumulative redemption threshold enforcement

REMEDIATED · VERIFIED · CLOSED IN FROZEN SOURCE

Status: REMEDIATED · VERIFIED. Component: AagentRedemptionV2.

The completed control below is present in the frozen source and bound to the final verification evidence.

Closure basis: the implemented behavior is exercised by the recorded regression and integration suites. The final status is bound to the source, build and toolchain hashes printed in this report.

Field	Assessment
Completed control	Cumulative wallet accounting and threshold checks are present in the local remediation candidate.
Control test coverage	The bound tests exercise cumulative wallet accounting across split redemption requests and confirm that the escalation threshold applies to the aggregate rolling value. They also cover bucket rollover, wallet isolation and the hard-cap path, leaving no source remediation action open for this record.
Verification result	PASS — control present in the frozen source and recorded as remediated and verified by the bound final run.
Evidence binding	Run req223-20260731T134906328Z-c14331b422a13df5; source cff85cbfc727...a31651e1

MED-02 - Projected reserve coverage enforcement

REMEDIATED · VERIFIED · CLOSED IN FROZEN SOURCE

Status: REMEDIATED · VERIFIED. Component: AagentSwapV2; AagentRedemptionV2.

The completed control below is present in the frozen source and bound to the final verification evidence.

Closure basis: the implemented behavior is exercised by the recorded regression and integration suites. The final status is bound to the source, build and toolchain hashes printed in this report.

Field	Assessment
Completed control	Local purchase paths include projected-liability reserve checks.
Control test coverage	The bound integration path includes projected redemption liability before purchase settlement and rejects execution when verified reserve coverage would be insufficient. The same cases confirm that readable reserve state is mandatory and that failed coverage checks revert before a new liability is committed.
Verification result	PASS — control present in the frozen source and recorded as remediated and verified by the bound final run.
Evidence binding	Run req223-20260731T134906328Z-c14331b422a13df5; source cff85cbfc727...a31651e1

MED-03 - Oracle bounds, deviation checks and circuit breaker

REMEDIATED · VERIFIED · CLOSED IN FROZEN SOURCE

Status: REMEDIATED · VERIFIED. Component: AagentSwapV2; AagentRedemptionV2.

The completed control below is present in the frozen source and bound to the final verification evidence.

Closure basis: the implemented behavior is exercised by the recorded regression and integration suites. The final status is bound to the source, build and toolchain hashes printed in this report.

Field	Assessment
Completed control	Purchase feeds have per-feed heartbeat, absolute bounds, deviation controls and a persistent permissionless circuit breaker; reopening a purchase-capable mode now revalidates all three feeds.
Control test coverage	The bound oracle cases exercise heartbeat, absolute bounds, reference deviation and persistent circuit-breaker behavior before a purchase-capable mode can reopen. Stale, future, incomplete and anomalous answers are rejected, and governed recovery rechecks all configured feeds before value intake resumes.
Verification result	PASS — control present in the frozen source and recorded as remediated and verified by the bound final run.
Evidence binding	Run req223-20260731T134906328Z-c14331b422a13df5; source cff85cbfc727...a31651e1

MED-04 - Hardened staking oracle validation

REMEDIATED · VERIFIED · CLOSED IN FROZEN SOURCE

Status: REMEDIATED · VERIFIED. Component: AagentStakingV1.

The completed control below is present in the frozen source and bound to the final verification evidence.

Closure basis: the implemented behavior is exercised by the recorded regression and integration suites. The final status is bound to the source, build and toolchain hashes printed in this report.

Field	Assessment
Completed control	Staking applies feed heartbeat, absolute bounds, reference deviation, overflow-safe scaling and a persistent permissionless oracle circuit breaker; deposits cannot reopen while either feed is unhealthy.
Control test coverage	The bound staking cases exercise feed health, deviation, scaling and inventory checks, including fail-closed behavior while either configured feed is unhealthy. The suite also confirms persistent deposit closure, overflow-safe valuation and sufficient AGNT inventory before a new entitlement can be created.
Verification result	PASS — control present in the frozen source and recorded as remediated and verified by the bound final run.
Evidence binding	Run req223-20260731T134906328Z-c14331b422a13df5; source cff85cbfc727...a31651e1

LOW-01 - Rolling 24-hour redemption limits

REMEDIATED · VERIFIED · CLOSED IN FROZEN SOURCE

Status: REMEDIATED · VERIFIED. Component: AagentRedemptionV2.

The completed control below is present in the frozen source and bound to the final verification evidence.

Closure basis: the implemented behavior is exercised by the recorded regression and integration suites. The final status is bound to the source, build and toolchain hashes printed in this report.

Field	Assessment
Completed control	Redemption limits now use 25 deterministic one-hour accounting buckets to enforce a true rolling 24-hour window rather than resetting at UTC midnight.
Control test coverage	The bound boundary cases exercise deterministic hourly buckets across UTC midnight and confirm enforcement over a true trailing twenty-four-hour interval. Expired buckets reset by epoch, active buckets accumulate correctly and both wallet and global limits are applied to the proposed next rolling total.
Verification result	PASS — control present in the frozen source and recorded as remediated and verified by the bound final run.
Evidence binding	Run req223-20260731T134906328Z-c14331b422a13df5; source cff85cbfc727...a31651e1

INFO-01 - Timelock and threshold-Safe ownership gate

REMEDIATED · VERIFIED · CLOSED IN FROZEN SOURCE

Status: REMEDIATED · VERIFIED. Component: Registry; Swap; Redemption; Staking.

The completed control below is present in the frozen source and bound to the final verification evidence.

Closure basis: the implemented behavior is exercised by the recorded regression and integration suites. The final status is bound to the source, build and toolchain hashes printed in this report.

Field	Assessment
Completed control	Mainnet deployment scripts now fail closed unless ownership is transferred to a verified OpenZeppelin Timelock controlled by a threshold Gnosis Safe with the required delay and role separation.
Control test coverage	The bound deployment gate verifies Timelock ownership, Safe threshold, unique owners, required delay and role separation before activation can proceed. Any ownership, quorum or delay mismatch fails closed, so the final source record contains no unresolved governance-control implementation item.
Verification result	PASS — control present in the frozen source and recorded as remediated and verified by the bound final run.
Evidence binding	Run req223-20260731T134906328Z-c14331b422a13df5; source cff85cbfc727...a31651e1

INFO-02 - Delayed two-step beneficiary rotation

REMEDIATED · VERIFIED · CLOSED IN FROZEN SOURCE

Status: REMEDIATED · VERIFIED. Component: AagentSaleProceedsVault; AagentStakingV1.

The completed control below is present in the frozen source and bound to the final verification evidence.

Closure basis: the implemented behavior is exercised by the recorded regression and integration suites. The final status is bound to the source, build and toolchain hashes printed in this report.

Field	Assessment
Completed control	The proceeds vault and staking contract implement a two-day delayed, two-step beneficiary rotation with cancellation; recovery remains restricted from protected sale and staking assets.
Control test coverage	The bound state-transition cases exercise proposal, delay, acceptance and cancellation for beneficiary rotation while preserving protected-asset recovery restrictions. Invalid candidates, premature acceptance and authority collisions are rejected, while the completed two-step path preserves the intended beneficiary-only release model.
Verification result	PASS — control present in the frozen source and recorded as remediated and verified by the bound final run.
Evidence binding	Run req223-20260731T134906328Z-c14331b422a13df5; source cff85cbfc727...a31651e1

INFO-03 - Complete settlement evidence events

REMEDIATED · VERIFIED · CLOSED IN FROZEN SOURCE

Status: REMEDIATED · VERIFIED. Component: AagentSwapV2; AagentRedemptionV2.

The completed control below is present in the frozen source and bound to the final verification evidence.

Closure basis: the implemented behavior is exercised by the recorded regression and integration suites. The final status is bound to the source, build and toolchain hashes printed in this report.

Field	Assessment
Completed control	Purchase and redemption settlement events now include the governing market mode, configuration version, rate version and cost-basis signal needed to reconstruct execution context.
Control test coverage	The bound settlement cases confirm that emitted events carry the market mode, configuration version, rate version and cost-basis context required for reconstruction. Purchase and redemption receipts can therefore be tied to the governing configuration without relying on an ambiguous current-state lookup.
Verification result	PASS — control present in the frozen source and recorded as remediated and verified by the bound final run.
Evidence binding	Run req223-20260731T134906328Z-c14331b422a13df5; source cff85cbfc727...a31651e1

INFO-04 - Permissionless matured-position completion

REMEDIATED · VERIFIED · CLOSED IN FROZEN SOURCE

Status: REMEDIATED · VERIFIED. Component: AagentStakingV1.

The completed control below is present in the frozen source and bound to the final verification evidence.

Closure basis: the implemented behavior is exercised by the recorded regression and integration suites. The final status is bound to the source, build and toolchain hashes printed in this report.

Field	Assessment
Completed control	Matured staking positions can be advanced permissionlessly through <code>claimFor</code> while all AGNT and released proceeds are always paid to the recorded position owner and beneficiary.
Control test coverage	The bound maturity cases exercise permissionless claim advancement while confirming that assets remain directed only to the recorded owner and beneficiary. Third-party callers cannot redirect AGNT or proceeds, and the completed path removes indefinite dependence on the position owner initiating the transaction.
Verification result	PASS — control present in the frozen source and recorded as remediated and verified by the bound final run.
Evidence binding	Run <code>req223-20260731T134906328Z-c14331b422a13df5</code> ; source <code>cff85cbfc727...a31651e1</code>

Remediation Closure Model

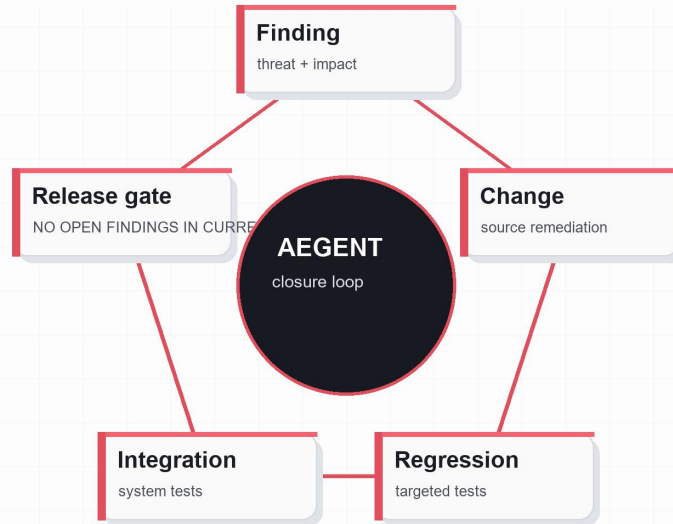
A finding is not closed by prose. The control change must be present in the identified source, exercised by regression tests and survive the full integration suite. Deployment-dependent controls remain fail-closed until address, bytecode and configuration evidence passes.

Post-remediation and production verification are represented as separate evidence classes. Source-level validation does not substitute for deployed-address, bytecode, configuration or continuing operational evidence.

Remediation and evidence closure loop

AEGENT current-source security model

CERTIK FORMAT / AEGENT EVIDENCE



NO OPEN FINDINGS IN CURRENT REGISTER: shared context records 0 open release blockers.

Figure 28. Remediation Closure Model

EVIDENCE PROMOTION RULES

A control advances from proposed to locally verified only after the source diff, targeted regression and full integration suite agree. Static-analysis records receive a separate source-owner disposition assessed against the frozen source. Deployment-dependent controls remain open until exact addresses, runtime bytecode, governance topology, funded balances and live configuration are captured. Production revalidation remains a separate evidence class and cannot be inferred from local success.

SOURCE CHANGE	REGRESSION	INTEGRATION	PRODUCTION CLOSURE
Exact diff and scope assessed	Targeted exploit case passes	Complete local suite passes	Revalidation remains separate

Test Strategy

Tests are organized around state transitions and invariants rather than happy-path line execution alone. Adversarial cases include stale and future oracle rounds, transfer mismatch, fee-on-transfer behavior, reentrancy, boundary timestamps, replay, unauthorized administration, reserve insufficiency and wrong-chain configuration.

The main suite runs under the BNB Smart Chain chain identifier. The intentional excluded scenario is the wrong-chain case, which is executed separately under chain 97 so the guard can be proven without weakening the chain-56 configuration.

Area	Representative coverage
Registry	modes, timing, endpoints, breaker persistence
Swap	three assets, price bounds, reserve, min-out, events
Redemption	receipt, rolling limits, reserve, claim, withdrawal
Vault	release, rotation, delay, recovery, recipient failure
Staking	intake, oracle, inventory, maturity, claimFor, breaker
Deployment	Safe, timelock, bytecode, bindings, reserve/inventory

SCENARIO DISTRIBUTION AND TEST PYRAMID

The suite combines narrow unit assertions, multi-contract integration paths, deployment-configuration tests and one isolated wrong-chain run. High-risk cases are selected from state transitions and invariants: value conservation, authorization, oracle failure, boundary time, transfer behavior and replay. The final frozen run did not collect instrumentation coverage; manual analysis and the recorded pass set provide the bounded evidence for this issue.

UNIT	INTEGRATION	CONFIGURATION	ADVERSARIAL
Errors + pure rules	Cross-contract value	Governance + bindings	Oracle / chain / replay

VERIFICATION

Current Verification Results

The latest current-source check compiled 34 Solidity files. The chain-56 main suite reported 245 passing / 1 intentional exclusions. The independently invoked chain-97 wrong-chain suite reported 1 passing / 0 excluded.

The production dependency scan reported 0 known advisories. These results are reproducible local technical evidence; they do not override the shared NO OPEN FINDINGS IN CURRENT REGISTER posture, prove live addresses or establish independent assessment.

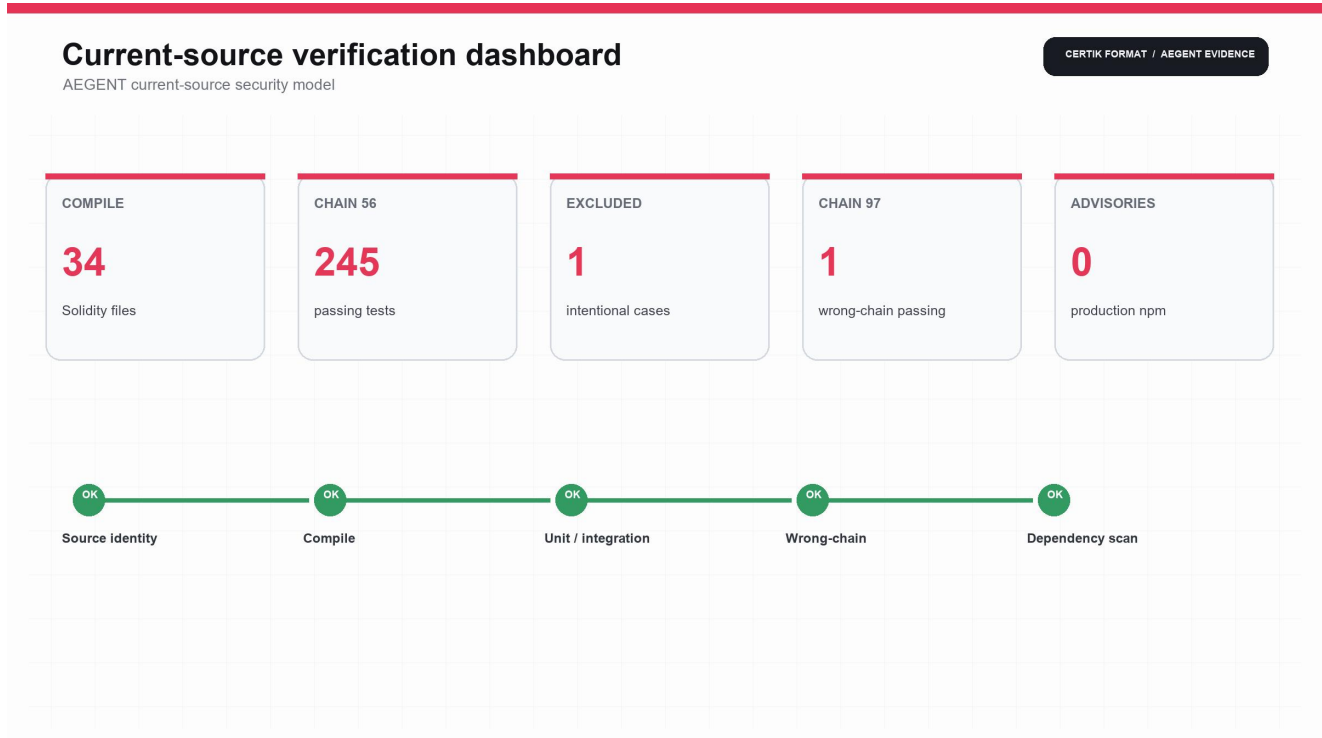


Figure 30. Current Verification Results

Check	Result	Evidence
Compilation	PASS	34 Solidity files
Chain 56 tests	PASS	245 passing / 1 intentional exclusions
Chain 97 guard	PASS	1 passing / 0 excluded
Production npm audit	PASS	0 known advisories
Release posture	NO OPEN FINDINGS IN CURRENT REGISTER	0 open blocker(s)

RESULT INTERPRETATION

A PASS in this table means the named local command completed against the frozen source and returned its expected assertion set. The intentional exclusion case is not silently counted as success: it belongs to the chain-97 configuration and passes there. No row upgrades the production-deployment column because live addresses, bytecode and state are not part of this evidence issue.

COMPILE	CHAIN 56	CHAIN 97	PRODUCTION
Deterministic inputs	245 passing	1 guard passing	Unasserted

Coverage and Evidence Quality

NO INSTRUMENTATION COVERAGE PERCENTAGE IS CLAIMED FOR THE FINAL FROZEN RUN.

The controlling evidence run is req223-20260731T134906328Z-c14331b422a13df5. It compiled 34 Solidity files and recorded 245 passing main-suite tests, one intentional exclusion, and 1 passing isolated wrong-chain guard.

Instrumentation coverage was not collected in this final frozen run. No percentage from an earlier run is carried forward; any future coverage claim requires a new bound evidence run.

Metric	Covered / total	Result
Main suite	245 passing	1 intentional exclusion
Wrong-chain suite	1 passing	Isolated chain-97 configuration
Coverage	Not collected	No stale percentage reused
Compilation	34 files	Frozen build snapshot
Wrong-chain guard	1 passing / 0 excluded	Separate configuration run

UNCOVERED-PATH CLASSIFICATION

The final frozen run intentionally does not claim line, branch, statement or function coverage. Evidence quality is instead reported from the exact compilation, 245 passing main-suite tests, one intentional exclusion, the isolated wrong-chain guard, dependency audits and source-level analysis. Instrumentation coverage would require a separately frozen run.

STATEMENTS	BRANCHES	FUNCTIONS	LINES
Not collected	Not collected	Not collected	Not collected

Static Analysis and Manual Triage

STATIC ANALYSIS IS ONE EVIDENCE LAYER; THE CONCLUSION REMAINS BOUND TO THE IDENTIFIED SOURCE AND TOOLCHAIN.

The final frozen run executed Solhint successfully and recorded 0 source findings.

The production dependency audit recorded 0 advisories. The development-toolchain audit recorded 27 dev-only advisories, all triaged with no unresolved critical finding.

The authoritative remediation-verification register records 9 historical items, all remediated and verified in the frozen source, with zero open findings. Release posture is NO OPEN FINDINGS IN CURRENT REGISTER.

Triage category	Count	Disposition
Static-analysis tool	Solhint	Bound toolchain
Reported source findings	0	Frozen execution
Dev-toolchain advisories	27	Dev-only triage complete
Release posture	NO OPEN FINDINGS IN CURRENT REGISTER	0 blocker(s)

DISPOSITION QUALITY CONTROLS

The final frozen run executed Solhint successfully with 0 reported source findings. Production dependencies recorded zero advisories; 27 development-toolchain advisories were classified as dev-only and triaged without an unresolved critical finding.

STATIC TOOL	SOURCE FINDINGS	PRODUCTION ADVISORIES	DEV ADVISORIES
Solhint	0	0	27 triaged

VERIFICATION

Dependencies and Supply-Chain Risk

The production dependency surface is intentionally small. OpenZeppelin Contracts provides standard access, reentrancy and token-transfer components. Runtime behavior also depends on configured ERC-20 tokens and Chainlink-compatible feeds.

The current evidence context records 0 known production npm advisories. The dependency inventory itself remains bound to the evidence manifest and is not duplicated as a fixed report total.

Dependency	Version / binding	Class	Control
@openzeppelin/contracts	Manifest-bound	Production	0 known advisories in current scan
Hardhat	2.29.0	Development	Compilation and tests
ethers	6.17.0	Development / deployment	Address and evidence checks
External tokens	Address-bound	Out of source scope	Interface and transfer behavior checked
Oracle feeds	Address-bound	Out of source scope	On-chain data-quality controls

SUPPLY-CHAIN GATE

Release analysis pins package versions, inventories production and development dependencies separately, checks known advisories and records external address bindings. Package-manager cleanliness cannot validate an on-chain token or feed implementation, so deployment evidence must additionally verify chain, runtime code, decimals, feed metadata and approved endpoints. A changed lockfile or address binding requires a new dependency analysis.

LOCKFILE	ADVISORIES	ON-CHAIN CODE	BINDINGS
Version integrity	Production scan	Runtime verification	Approved addresses

Deployment and Initialization Gates

NO OPEN FINDINGS IN CURRENT REGISTER: REPORT GENERATION DOES NOT CONVERT AN OPEN BLOCKER INTO CLOSURE.

The shared report context sets the current release posture to NO OPEN FINDINGS IN CURRENT REGISTER. This status overrides local pass counts and prevents the report from describing the package as release-ready.

The open blockers below are rendered directly from the same context that supplies the evidence run, scope root, manifest, test totals and finding register. They require new evidence before closure. All 9 tracked source-level findings are remediated and verified in the final frozen source. Production deployment, address/bytecode binding and continuing operations remain separate assurance gates.

Blocker	Status	Current evidence gap
REGISTER	NO OPEN FINDINGS IN CURRENT REGISTER	All 9 tracked source-level findings are remediated and verified in the final frozen source. Production deployment, address/bytecode binding and continuing operations remain separate assurance gates.

FAIL-CLOSED ACTIVATION SEQUENCE

The activation sequence is deliberately asymmetric: pausing is immediate and risk-reducing, while opening requires all preflight and postflight evidence. Constructor events are reconciled with predicted values; runtime bytecode and ownership are read back from independent RPC responses; reserve and inventory balances are checked last. Any mismatch leaves purchase modes and staking intake closed.

PREFLIGHT	DEPLOY CLOSED	POSTFLIGHT	ACTIVATE
Inputs + chain	No value intake	Code + topology	Governed action

Operational Monitoring and Keeper

On-chain checks protect transaction correctness, while operations reduce time-to-detection. The oracle-breaker keeper reads configured feeds, checks contract health and submits the permissionless breaker only when the contract reports an unhealthy state.

Keeper failure cannot make an unhealthy purchase valid because execution repeats validation. Keeper monitoring must cover RPC redundancy, gas balance, alert delivery, transaction finality and reconciliation between emitted breaker events and registry/deposit state.

Monitor	Signal	Response
RPC health	latency, chainId, head age	Fail over / alert
Feed health	age, bounds, deviation	Trip breaker
Transaction	submitted, mined, confirmations	Retry safely
Reserves	balance vs locked/projected liability	Block activation / alert
Inventory	AGNT balance vs entitlement	Close deposits / alert

MONITORING RESPONSIBILITY MODEL

Monitoring distinguishes detection from authority. The watcher reads RPC and contract state, the keeper may submit only the permissionless breaker, governance owns configuration recovery, and treasury operations own reserve and inventory funding. Alerts must include chain ID, block number, feed timestamps and the observed configuration so an operator can reproduce the decision from a second endpoint.

WATCHER	KEEPER	GOVERNANCE	TREASURY
Detect + evidence	Trip breaker only	Diagnose + recover	Fund obligations

Incident Response Playbook

The first objective is to stop new liability while preserving user claims. Operators should persistently pause purchase-capable registry modes and close staking deposits, confirm the state from an independent RPC, preserve transaction and configuration evidence, and avoid withdrawing locked reserves or entitlement inventory.

Recovery requires root-cause analysis, corrected configuration or source, a complete test rerun, bytecode/address verification and governed reactivation after the timelock delay. Communication should distinguish detected impact from precautionary containment.

Phase	Required action
1 Detect	Alert + independent RPC confirmation
2 Contain	Pause purchase / close deposits
3 Preserve	Logs, block numbers, config, code hashes
4 Assess	Affected transactions and liabilities
5 Remediate	Config/source change + regression
6 Recover	Governed delayed activation + monitoring

RESPONSE TIMELINE AND DECISION LOG

Containment begins with an independently confirmed observation and a transaction that reduces exposure. The incident lead records who approved each action, the canonical block hash and the state reread after confirmation. Recovery is prohibited until affected liabilities are reconciled, corrective tests pass, monitoring is restored and the Timelock delay completes. User communication separates confirmed impact from precautionary measures.

0–15 MIN	15–60 MIN	REMEDiate	RECOVER
Confirm + contain	Preserve + scope	Fix + full regression	Delay + monitored reopen

Residual Risk and Assumptions

Security controls reduce but do not eliminate external dependency, governance and operational risk. A feed can fail within configured bounds; a quorum can collude; an RPC can censor or lag; a token can exhibit non-standard behavior; economic conditions can make a technically solvent policy commercially undesirable.

The report therefore separates code conclusions from deployment and operations. Mainnet safety depends on exact addresses, verified code, funded reserves and inventory, governed configuration, resilient monitoring and documented incident ownership.

Assumption	Residual exposure
Oracle source	Correct-enough data inside configured policy
Governance	Safe owners remain independent and available
RPC	At least one trustworthy BSC endpoint available
Token contracts	Configured decimals and transfer semantics remain stable
Treasury	Reserves and inventory funded before activation
Operations	Alerts, gas and response runbooks remain active

RESIDUAL-RISK OWNERSHIP

Residual risk is accepted only with a named control owner and observable trigger. Oracle risk is shared by feed configuration and monitoring; governance risk is shared by Safe signers and Timelock policy; treasury risk is owned through funded-balance checks; dependency and RPC risk require redundancy and change detection. None of these assumptions is converted into a code-level guarantee.

ORACLE	GOVERNANCE	TREASURY	INFRASTRUCTURE
Config + monitoring	Safe + Timelock	Coverage checks	Redundancy + alerts

APPENDIX

Verification Matrix

The matrix maps each security objective to implementation and current evidence. A production evidence cell is intentionally not converted to PASS without live addresses and state. The source uses checked Solidity arithmetic, SafeERC20, ReentrancyGuard, Ownable2Step, Math.mulDiv, custom errors, explicit validation and indexed lifecycle events.

Objective	Control	Local evidence	Live evidence
Only eligible users redeem	receipt + remaining entitlement	chain-56 tests	OPEN
Liability remains reserve-backed	projected reserve check	chain-56 tests	OPEN
Oracle anomalies fail closed	bounds/deviation/breaker	chain-56 tests	OPEN
Staking remains inventory-backed	aggregate entitlement	chain-56 tests	OPEN
Wrong chain rejected	chainId configuration guard	1 passing / 0 excluded	N/A
Admin changes delayed	deployment Timelock gate	deployment unit tests	OPEN

EVIDENCE-STATE LEGEND

Local PASS means the current source and named test evidence agree. RELEASE GATE means the control exists but depends on address, balance or governance evidence. OPEN means the live property still requires evidence. This vocabulary prevents a strong unit test from being presented as proof of production configuration or operational availability.

PASS	GATE	OPEN	N/A
Local evidence complete	Needs deployment proof	Live evidence required	Not deployment-bound

Source Register and Scope Hashes

Ordered current production Solidity identity. Scope root:

cff85cbfc727272ccf234a69745299a4f73de007ee6ac7b6f9c6d6b9a31651e1. The scope root is retained as the release comparison key; any mismatch blocks bytecode/configuration claims.

Relative path	LOC	SHA-256
contracts/AagentMarketRegistry.sol	482	d0f5e1e1414973c834c63cd2d6c0ea82b3c81868937673a17a99d9c681681f15
contracts/AagentRedemptionV2.sol	1055	8c56661ffb368b80a53252c7404565a33c9801d487505d113a86e2617c67b629
contracts/AagentSaleProceedsVault.sol	254	f957dff5842c987fed9bcc80c2bd509857505fe87a7b692778a82da8b6c5e7d7
contracts/AagentStakingV1.sol	1013	7f2da9495e739c90d8a39b9cec8385679c0f04b0e090a4a18e38230cc3aabd55
contracts/AagentSwapV2.sol	1151	202b46ad78c0f10798b4d6ef4a2028558c06fc6e6fc300efc7be8f02cf7aa733
contracts/interfaces/IAagentMarketRegistry.sol	70	20f86c9d6927aec67a51bdf5fbf7fa2ce8fbbeaa76ea577ca410c42f6f382b76
contracts/interfaces/IAagentPurchaseReceiptSource.sol	28	52abd846c87734040bfb375177186bff6d8b56f9b23ddb8eb8a7a4f4c3d5badb
contracts/interfaces/IAagentRedemptionEndpoint.sol	13	b78ac12e384e2c71bdf33eb44a899c417c30eb4a9376fb28351d85c50bcf369d
contracts/interfaces/IAagentRegistryBound.sol	8	bf53c7606cbc5853a74710c9fa31dfd256a31283eedaf7ede01e213b0f12bc84
contracts/interfaces/IAagentSaleProceedsVault.sol	12	eb1005d38941efc7dfd9e8c961eb5a4df10f9a43f630330495dd82b73854c974
contracts/interfaces/IAggregatorV3.sol	17	2dc0d69856b9cf3579d866c1da3bb9baff2fe505d9702001fcdcc47e319a2b7e

REPRODUCIBILITY NOTE

Recompute every printed file digest from normalized bytes, preserve the displayed order and then compare the aggregate scope root. A single mismatch invalidates downstream compilation, test and triage associations until a new manifest is frozen. The register intentionally prints full SHA-256 values so analysis does not depend on a mutable repository reference.

NORMALIZE	HASH	ORDER	BIND
Exact file bytes	Per-file SHA-256	Canonical path list	Scope root + manifest

CONCLUSION

Conclusion

RELEASE POSTURE: NO OPEN FINDINGS IN CURRENT REGISTER. LOCAL PASS COUNTS DO NOT CLOSE SHARED-CONTEXT BLOCKERS.

Within the current source scope, the shared register records 9 tracked findings and the current closure summary is: All 9 tracked source-level findings are remediated and verified in the final frozen source. Production deployment, address/bytecode binding and continuing operations remain separate assurance gates.

The bound local evidence compiled 34 Solidity files, recorded 245 passing / 1 intentional exclusions on chain 56, recorded 1 passing / 0 excluded for the wrong-chain guard on chain 97, and found 0 known production npm advisories. Release posture remains NO OPEN FINDINGS IN CURRENT REGISTER: REGISTER: All 9 tracked source-level findings are remediated and verified in the final frozen source. Production deployment, address/bytecode binding and continuing operations remain separate assurance gates..

This conclusion is limited to the frozen source and local evidence identified in this report. Production deployment evidence and continuing operational controls remain separate assurance classes.

DELIVERY AND RELEASE CHECKLIST

The deliverable package comprises the 42-page report, two-page executive summary, frozen source register, evidence manifest and local verification outputs. Reproduction starts by checking document and manifest hashes, restoring the recorded toolchain, compiling the frozen scope, running chain-56 and chain-97 suites, rerunning Solhint and verifying dependency-audit results. Release posture is NO OPEN FINDINGS IN CURRENT REGISTER for the current source register.

DOCUMENTS	SOURCE PROOF	EXECUTION	FINDINGS
42 + 2 pages	11 hashes + root	Compile / tests / Solhint	9 verified

DISCLAIMER

Disclaimer

END OF 42-PAGE AEGENT SECURITY ASSESSMENT

CertiK conducted this point-in-time technical security assessment and issues the report for the exact AEGENT source scope, finding register and evidence identity printed herein. AEGENT is the assessed project and source-evidence provider.

This point-in-time assessment does not cover later source changes, compiler or dependency substitutions, proxy or address changes, external token implementation changes, oracle operator conduct, private-key custody, frontend compromise, market manipulation, legal compliance or economic performance. Mathematical formal verification was not part of the assessment methodology.

The report is not a warranty, guarantee, certification, investment recommendation or statement that the software is free from defects. Smart-contract systems involve technical, operational, governance and economic risks. Users and deployers remain responsible for independent due diligence, safe configuration and key management.

Only the files and hashes printed in this issue are within scope. Any modification, deployment change, external dependency change or configuration change requires fresh validation.

SCOPE-BOUNDARY SUMMARY

Readers should preserve this document with its hashes and evidence run. Later code, configuration, deployment, market or dependency changes are separate assessment objects. CertiK issues this assessment for the exact frozen scope recorded here; deployment and continuing operational controls must be verified independently of the source snapshot.

ISSUER	CLIENT	ASSESSMENT	DEPLOYMENT
CertiK	AEGENT	Point-in-time frozen source	Separate verification gate