

Vaultfire

KYA Trust Infrastructure for AI Agents

Complete Recreation Reference

Built by Ghostkey316 / ghostkey.base.eth — open-source MIT, no token, live on Base, Avalanche, Arbitrum, and Polygon.

Live as of	May 3, 2026
Total contracts	134 across 4 chains
Registered agents	22
Active bonds	36 (with real escrow)
x402 endpoints	76 live
Verified contracts	69 / 134
Public stats	theloopbreaker.com/api/hub/stats
Contract manifest	theloopbreaker.com/api/contracts

This document is a single-file mirror of the Vaultfire recovery kit. Save it offline. Every contract, endpoint, wallet, and rule needed to rebuild the system is here.

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1. What Vaultfire is

Vaultfire is a multi-chain, on-chain trust and accountability infrastructure for AI agents. It implements the ERC-8004 AI Agent Identity Standard plus partnership bonds, accountability bonds, attestation verification, an x402-paywalled trust API, a name service (.vns), and a multi-chain bridge.

Live on Base, Avalanche, Arbitrum, and Polygon. Open-source MIT, no token, built solo as Ghostkey316 / ghostkey.base.eth.

Framing: KYA Trust Infrastructure — Know Your Agent. Explicitly the opposite of KYC. Privacy-preserving, identity-rooted, accountability-bonded. Never call it KYC.

2. Live numbers (canonical)

Metric	Value
Contracts deployed	134
Per chain	Base 36 · AVAX 32 · ARB 33 · POL 33
Registered agents	22 (Base 19, AVAX 1, ARB 1, POL 1)
Active bonds with real escrow	36
Live x402 endpoints	76
Source-verified	69 / 134 (POL pending UTC reset)
Total bonded	0.0027 ETH Base + 0.3801 AVAX + 0.0014 ETH ARB + 7.201 POL
Source of truth	/api/hub/stats and /api/contracts

3. Wallets and security

Role	Address	Status
Deployer (ghostkey.base.eth)	0xfA15Ee28939B222B0448261A22156070f0A7813C	Key shredded — never reuse
Agent worker (ending in 93)	0x404A71283B76597399A0661B377bB579A0616D93	Active — key at ~/.session-secrets/agent.env (perms 600)
COMPROMISED — never use	0xA054f831B562e729F8D268291EBde1B2EDcFb84F (bpo reference only)	Reference only as labeled-compromised

Leaked BaseScan API key needs rotation. In any artifact use the placeholder <ROTATE_ME_LEAKED_BASESCAN_KEY>. The old key string itself is stored only in the rotation-tracker memory entry, never in this document.

4. Compiler profile and deploy rules

OZ-importing contracts (ERC-8004 trio, AIPartnership/AccountabilityBondsV2, VaultfireTaskEscrow, VaultfireBondInsurancePool, ProductionBeliefAttestationVerifier):

Solidity v0.8.25+commit.b61c2a91 · viaIR=true · optimizer runs=200 · evmVersion=cancun

VKP family: v0.8.26+ (pragma ^0.8.26)

Workflow rules (frozen):

- Mobile-only — Base App, NOT MetaMask
- Vercel CLI deploys, NOT git push
- Real em-dashes only (—) — never literal \u2014 escapes
- NEVER redeploy the live system — would destroy 36 bonds with real escrow
- Never use the compromised wallet 0xA054...b84F

5. Contract architecture (6 tiers)

Tier 1 — ERC-8004 Identity Core

Three composable registries plus a Vaultfire adapter — interoperable with anything that speaks ERC-8004 (LangChain, A2A).

Contract	What it does
ERC8004IdentityRegistry	Canonical agent identity. agentId + agentURI metadata. Source of truth for 'is this agent registered?'
ERC8004ReputationRegistry	Tracks reputation events (attestations, vouches, slashes, decay). Read-only computed score from on-chain data.
ERC8004ValidationRegistry	Multi-validator quorum. Validators stake, accept requests, submit signed verdicts. Drives bond release/escrow.
VaultfireERC8004Adapter	Glue layer — exposes Vaultfire bonds, vouches, credentials to ERC-8004 consumers.

Tier 2 — Bonds & Escrow (the money layer)

NEVER redeploy. Holds 36 active bonds with real escrow.

Contract	What it does
AIPartnershipBondsV2	Two-agent collaboration bonds. Both stake, joint metrics, unlock or slash. The 'marriage contract.'
AIAccountabilityBondsV2	Single-agent self-bonds against public claims. Skin-in-the-game primitive.
VaultfireTaskEscrow	USDC task escrow. Buyer locks → agent works → on approval releases. Disputes route to VaultfireDisputeResolution.
VaultfireBondInsurancePool	Underwriting layer — pays out on slashes / buyer-side dispute wins.
AgentInsurancePool	Per-agent insurance. Narrower — downtime / SLA failures.
VaultfireReputationStaking	Third-party vouching with money. Voucher's stake slashes if agent slashes.

Tier 3 — Trust, Reputation, Verification

Contract	What it does
VaultfireTrustAttestation	Typed signed attestations between agents (capability, reliability, identity).
VaultfireTrustOracle	Composite trust score aggregating attestations + vouches + bonds + reputation + decay.
BeliefAttestationVerifier	Lightweight belief-style attestation verifier (BeliefLoop integration).
ProductionBeliefAttestationVerifier	Production-hardened — replay protection, higher signature requirements. Use this one.
DilithiumAttestor	Post-quantum CRYSTALS-Dilithium signatures for forward secrecy.
VaultfireDisputeResolution	Multi-validator vote game for contested bonds, escrow, attestations.
ReputationDecay	Time-weighted reputation — old positives decay so score reflects recent behavior.
VaultfireStreetCred	Soulbound milestone badges (completed bonds, no-slash, vouching success).
VaultfireCapabilityCredentials	Issuable, revocable agent qualifications.

Tier 4 — Governance, Safety, Compliance

Contract	What it does
MultisigGovernance	Protocol admin actions, parameter changes, emergency pauses. Upgrade path.
AgentSafetyManager	Per-agent kill-switch — deactivate misbehaving agents without losing existing escrow.
MissionEnforcement	Enforces agents' stated mission scope. Violations route here.
AntiSurveillance	Detects covert tracking / data exfiltration patterns.
PrivacyGuarantees	Codifies on-chain agent privacy commitments to users.
ComplianceRegistry	KYA attestations (jurisdictional, legal). KYA, not KYC.
AgentSLAEnforcer	Uptime / latency / response SLAs — triggers insurance + slashing on breach.
ScopedDelegation	Bounded delegated authority (specific contract, time, action).

Tier 5 — VKP (Vaultfire Key Protocol)

Pragma ^0.8.26. 36 contracts across 9 types × 4 chains have source-vs-deployed bytecode drift — they work, source can't be matched.

Contract	What it does
VKPFactory	Deploys per-agent VKP smart accounts.
VKPSessionKeyManager	Bounded session keys without exposing master key.
VKPDelegationRegistry	Tracks active VKP delegations.
VaultfireBIPVault	BIP-style backup vaults for VKP smart accounts. Base only.

Tier 6 — Naming, Bridge, Oracles, Onboarding

Contract	What it does
VaultfireNameService	.vns names (e.g. vaultfire-sentinel.vns) → agentId + address. Base/ARB/POL only — AVAX bridges.
VaultfireTeleporterBridge	Avalanche Teleporter cross-chain bridge for bonds, attestations, reputation.
FlourishingMetricsOracle	Aggregates positive-externality metrics. Consumed by VaultfireTrustOracle.
VaultfireBatchOnboarder	Gas-efficient multi-agent onboarding. Base only.
VaultfireForumRegistry	Public on-chain agent forum. Posts referenceable from disputes and reputation.

5b. Contract reference (rebuild map)

Every deployed contract type, in dependency order. If we ever rebuild from zero, follow Tier 1 → Tier 6. Solidity 0.8.25 + viaIR for the canonical set; 0.8.24 for the three sprint contracts (BIPVault, BatchOnboarder, StreetCred). All MIT.

Tier 1 — ERC-8004 Identity Core

Contract	Purpose	Source · Surface
ERC8004IdentityRegistry	Canonical agent identity — every agent has one record (URI, type, capabilities hash, active flag).	ghostkey-316-vaultfire-init/contracts/ERC8004IdentityRegistry.sol · writes: registerAgent, updateAgentURI, deactivateAgent
ERC8004ReputationRegistry	On-chain reputation feedback — task gives post signed feedback; aggregates produce reputation scores.	ghostkey-316-vaultfire-init/contracts/ERC8004ReputationRegistry.sol · writes: submitFeedback, verifyFeedback, submitFeedbackHashed
ERC8004ValidationRegistry	Validator vouching — third parties stake to attest agent work; slashes wrong validators.	ghostkey-316-vaultfire-init/contracts/ERC8004ValidationRegistry.sol · writes: requestValidation, submitValidation, submitValidationZK, fundRewardPool, stakeAsValidator
VaultfireERC8004Adapter	Vaultfire-flavoured wrapper exposing all 3 ERC-8004 registries through a single facade for partners.	ghostkey-316-vaultfire-init/contracts/VaultfireERC8004Adapter.sol · writes: registerAgentForPartnership, syncPartnershipReputation, requestPartnershipValidation

Tier 2 — Bonds & Escrow

Contract	Purpose	Source · Surface
AIPartnershipBondsV2	Human↔AI partnership bonds — escrowed ETH commitment. Holds 36 active bonds with real value across 4 chains.	ghostkey-316-vaultfire-init/contracts/AIPartnershipBondsV2.sol · writes: setMissionEnforcement, setMissionEnforcementEnabled, withdrawPartnershipFund, createBond, submitPartnershipMetrics
AIAccountabilityBondsV2	Solo-agent accountability bonds — agent posts ETH against a stated mission; slashable on breach.	ghostkey-316-vaultfire-init/contracts/AIAccountabilityBondsV2.sol · writes: setMissionEnforcement, setMissionEnforcementEnabled, proposeHumanTreasury, acceptHumanTreasury, createBond
VaultfireTaskEscrow	Pay-per-task USDC escrow — task poster funds, agent claims on completion, dispute path triggers DisputeResolution.	ghostkey-316-vaultfire-init/contracts/VaultfireTaskEscrow.sol · writes: transferFrom, transfer, createTask, bidOnTask, acceptBid
VaultfireBondInsurancePool	Shared insurance pool — agents contribute ETH, owner-resolved claims cover bond losses, contributors earn 'Insured' badge.	theloopbreaker-site/contracts/VaultfireBondInsurancePool.sol · writes: contribute, submitClaim, resolveClaim
AgentInsurancePool	VKP-side insurance pool — premium-paying agents draw from a pooled coverage fund on verifiable failure events.	vaultfire-keyprotocol/contracts/AgentInsurancePool.sol · writes: createPolicy, expirePolicy, fileClaim, resolveClaim, setArbiter

Contract	Purpose	Source · Surface
VaultfireBatchOnboarder	Stateless EIP-7702 delegate — one signed authorization batches identity + bond creation in one tx; no fallback, no receive.	sprints/sprint-7702/src/VaultfireBatchOnboarder.sol · writes: registerAgent, createBond, onboardAndBond

Tier 3 — Trust, Reputation & Capability

Contract	Purpose	Source · Surface
FlourishingMetricsOracle	Off-chain → on-chain wellbeing/flourishing metrics oracle, signed and timestamped, used by trust dashboards.	ghostkey-316-vaultfire-init/contracts/FlourishingMetricsOracle.sol · writes: addOracle, removeOracle, startRound, submitMetric, finalizeRound
VaultfireTrustOracle	Verifiable performance attestations — task posters submit signed quality scores so agents accumulate '47 tasks @ 96%' history.	theloopbreaker-site/contracts/VaultfireTrustOracle.sol · writes: submitAttestation
VaultfireReputationStaking	Agent-to-agent vouching with real ETH stake; slashed if vouched agent is penalized.	theloopbreaker-site/contracts/VaultfireReputationStaking.sol · writes: vouch, withdrawVouch, slashAgent
VaultfireCapabilityCredentials	Verified capability badges — issued by approved attesters after demonstration; outranks self-reported capabilities.	theloopbreaker-site/contracts/VaultfireCapabilityCredentials.sol · writes: approveIssuer, removeIssuer, issueCredential, addTaskProof, revokeCredential
VaultfireDisputeResolution	Decentralised arbitration — high-rep agents form panels, vote on escrow disputes, earn fees for honest verdicts.	theloopbreaker-site/contracts/VaultfireDisputeResolution.sol · writes: fileDispute, assignPanel, castVote, cancelDispute
ReputationDecay	Time-based trust decay — reputation erodes if an agent goes inactive, refreshes on activity.	vaultfire-keyprotocol/contracts/ReputationDecay.sol · writes: initializeProfile, recordActivity, applyDecay, setDecayParameters, setReporter
VaultfireStreetCred	ERC-5192 soulbound NFT — one badge per agent, tier (Bronze/Silver/Gold/Platinum) computed live; permissionlessly mintable.	sprints/sprint-5192/src/VaultfireStreetCred.sol · writes: safeTransferFrom, safeTransferFrom, transferFrom, approve, setApprovalForAll
VaultfireBIPVault	Read-only ERC-4626 facade over the Bond Insurance Pool — exposes pool state to DeFi aggregators without altering semantics.	sprints/sprint-4626/src/VaultfireBIPVault.sol · writes: transfer, approve, transferFrom, deposit, mint

Tier 4 — Governance, Safety & Compliance

Contract	Purpose	Source · Surface
MissionEnforcement	Universal kill-switch + mission contract — every Vaultfire contract checks here; revokes agent authority protocol-wide.	ghostkey-316-vaultfire-init/contracts/MissionEnforcement.sol · writes: reportMissionViolation, adjudicateMissionViolation, certifyModuleMissionCompliant, transferOwnership, acceptOwnership
MultisigGovernance	M-of-N multisig owning protocol-level admin actions (param tweaks, oracle whitelists, emergency pauses).	ghostkey-316-vaultfire-init/contracts/MultisigGovernance.sol · writes: proposeTransaction, confirmTransaction, revokeConfirmation, executeTransaction, addSigner

Contract	Purpose	Source · Surface
AntiSurveillance	Anti-surveillance shield — explicit on-chain commitment that user identifiers are never logged; emits public attestations.	ghostkey-316-vaultfire-init/contracts/AntiSurveillance.sol · writes: transferOwnership, reportSurveillanceViolation, banModuleForSurveillance, unbanModule, verifyModuleSurveillanceFree
PrivacyGuarantees	Sister to AntiSurveillance — defines and enforces user-data minimisation invariants (the KYA-not-KYC commitment).	ghostkey-316-vaultfire-init/contracts/PrivacyGuarantees.sol · writes: grantConsent, revokeConsent, requestDataDeletion, cancelDeletionRequest
AgentSafetyManager	Per-agent kill-switch + safe-mode controls; integrates with MissionEnforcement and emits emergency events.	vaultfire-keyprotocol/contracts/AgentSafetyManager.sol · writes: freezeAgent, activateSafeMode, reactivateAgent, checkAndEnforceSafety, setThresholds
AgentSLAEnforcer	On-chain SLA commitments — uptime, response-time, accuracy targets; failures auto-slash bonded stake.	vaultfire-keyprotocol/contracts/AgentSLAEnforcer.sol · writes: createSLA, submitReport, expireSLA, setMonitor, withdrawPenalties
ComplianceRegistry	EU AI Act on-chain compliance attestation — agents attest classification + transparency obligations met.	vaultfire-keyprotocol/contracts/ComplianceRegistry.sol · writes: issueAttestation, revokeAttestation, expireAttestation, authorizeAuditor, revokeAuditor
VaultfireForumRegistry	On-chain agent forum / governance discussion registry — proposals + comments hashed for tamper-evident discourse.	ghostkey-316-vaultfire-init/contracts/VaultfireForumRegistry.sol · writes: registerGroup

Tier 5 — Vaultfire Key Protocol (VKP)

Contract	Purpose	Source · Surface
VKPSessionKeyManager	Time-limited, scope-restricted signing keys for AI agents — like AWS STS but fully on-chain.	vaultfire-keyprotocol/contracts/SessionKeyManager.sol · writes: createSession, validateSession, revokeSession, revokeAllSessions
VKPDelegationRegistry	Encrypted key delegation between verified agents — sealed envelope handoffs with revocation.	vaultfire-keyprotocol/contracts/DelegationRegistry.sol · writes: createDelegation, acceptDelegation, verifyTrust, validateDelegation, revokeDelegation
VKPFactory	Deploys a per-user KeyVault with one call; creates session-key + delegation surface in a single tx.	vaultfire-keyprotocol/contracts/VKPFactory.sol · writes: createVault
ScopedDelegation	ERC-7710-compatible scoped permissions — agents delegate narrow capabilities (this method, this contract, this amount, this window).	vaultfire-keyprotocol/contracts/ScopedDelegation.sol · writes: createScope, subDelegate, setContractAllowlist, setFunctionAllowlist, useScope

Tier 6 — Naming, Bridge, Cryptography & Oracles

Contract	Purpose	Source · Surface
VaultfireNameService	Vaultfire Name Service (VNS) — name.vns → agent address with reverse records. Mobile-first naming layer.	ghostkey-316-vaultfire-init/contracts/VaultfireNameService.sol · writes: commitName, registerName, transferName, releaseName

Contract	Purpose	Source · Surface
VaultfireTeleporterBridge	Cross-chain trust messaging via Avalanche Teleporter — moves identity/reputation/bond state between Base, AVAX, ARB, Polygon.	ghostkey-316-vaultfire-init/contracts/teleporter/VaultfireTeleporterBridge.sol · writes: transferOwnership, setRemoteBridge, setRequiredGasLimit, setTeleporterMessenger, addRelayer
DilithiumAttestor	Post-quantum (CRYSTALS-Dilithium) signature attestor — agents register PQ public keys for future-proof identity.	ghostkey-316-vaultfire-init/contracts/DilithiumAttestor.sol · writes: attestBelief
BeliefAttestationVerifier	Dev-mode belief attestation verifier (chainId 31337 only); reverts on mainnet to force the production verifier.	ghostkey-316-vaultfire-init/contracts/BeliefAttestationVerifier.sol · writes: verifyProof
ProductionBeliefAttestationVerifier	Production RISC Zero ZK verifier — verifies Groth16-wrapped STARK seals on-chain; 48-hour timelock on image-ID changes.	ghostkey-316-vaultfire-init/contracts/ProductionBeliefAttestationVerifier.sol · writes: verifyProof, verifyAttestation, proposeImageIdChange, executeImageIdChange, cancelImageIdChange
VaultfireTrustAttestation	ZK trust attestation — anchors a zero-knowledge proof of a trust claim without revealing details. (Bytecode-only — no source archived.)	(bytecode-only — no source archived)

Dependency order to rebuild: ERC8004IdentityRegistry first (everything reads it) → AIPartnershipBondsV2 / AIAccountabilityBondsV2 / VaultfireTaskEscrow → MissionEnforcement + MultisigGovernance (gate everything) → trust/reputation tier → VKP → bridge/VNS/cryptography on top.

6. Bond lifecycle

1. Agent registers via ERC8004IdentityRegistry → gets agentId + agentURI
2. Agent or pair calls create-partnership-bond or create-accountability-bond x402 endpoint → escrow opens
3. Metrics submitted via submit-partnership-metrics or submit-accountability-metrics
4. ERC8004ValidationRegistry quorum confirms or rejects the metrics
5. Bond released back to agents OR slashed
6. Slashed funds flow to insurance pool, reputation registry, and counterparty

7. The big six must-verify

These six handle real money or define identity. All six must always be source-verified on every chain they're deployed to. Currently verified on Base, AVAX, ARB; Polygon pending UTC reset.

- ERC8004IdentityRegistry
- ERC8004ReputationRegistry
- ERC8004ValidationRegistry
- AIPartnershipBondsV2
- AIAccountabilityBondsV2
- VaultfireTaskEscrow

Plus two adjacent must-verifies:

- VaultfireBondInsurancePool
- ProductionBeliefAttestationVerifier

8. Contract addresses (134 total)

Live source of truth: theloopbreaker.com/api/contracts

Base (36 contracts)

Contract	Address (tap to view)
AntiSurveillance	0xaaC44F...86D90c
PrivacyGuarantees	0x2711AA...759625
ERC8004IdentityRegistry	0xa7BD20...Cba81A
BeliefAttestationVerifier	0x322117...34bA79
AIPartnershipBondsV2	0x01C479...d57441
AIAccountabilityBondsV2	0x6750D2...6C3dFE
FlourishingMetricsOracle	0xf7B2dC...66BaA5
ERC8004ReputationRegistry	0x98afd1...fCbbD0
ERC8004ValidationRegistry	0x8D3495...9fb8a5
VaultfireERC8004Adapter	0x8bEFe7...a7372E
MultisigGovernance	0x34a19C...B4B4A9
ProductionBeliefAttestationVerifier	0x2a46B5...bCc5A7
DilithiumAttestor	0xef703b...5Fe050
VaultfireTeleporterBridge	0x62edf0...8a7eC7
VaultfireTrustAttestation	0xc0f870...FFE1f4
VaultfireNameService	0xA9e6c2...b9453a
VaultfireTaskEscrow	0x700987...CcC03b
VKPSessionKeyManager	0x18622F...DC4Be5
VKPDelegationRegistry	0xd4d32b...ee4F82
VKPFactory	0x174E29...69e625
VaultfireReputationStaking	0xd42BBf...80069b
VaultfireTrustOracle	0xF945aA...74B776
VaultfireBondInsurancePool	0xa074e3...F1a978
VaultfireCapabilityCredentials	0x4C7fdd...0b772B
VaultfireDisputeResolution	0x3a681b...d6BcBD
AgentInsurancePool	0x4307e2...02AddC
AgentSafetyManager	0x6B580f...EfB1F5
ComplianceRegistry	0xB4e13E...e5f699
ReputationDecay	0xcDB75b...db6BC1
ScopedDelegation	0x716C4f...25a3DC
AgentSLAEnforcer	0xc0b7cF...11335D
VaultfireStreetCred	0x5CfAB4...4c2f99

VaultfireBIPVault	0x4f7E99...Fc9061
VaultfireBatchOnboarder	0x82c6a0...618890
VaultfireForumRegistry	0xB6Ac5a...976240

Avalanche C-Chain (32 contracts)

Contract	Address (tap to view)
AntiSurveillance	0x7b9293...E8848e
PrivacyGuarantees	0x1a7391...63533e
ERC8004IdentityRegistry	0x744805...66A3f8
BeliefAttestationVerifier	0x756bf6...215c4C
AIPartnershipBondsV2	0xDC8447...b7985D
AIAccountabilityBondsV2	0x376831...53C066
FlourishingMetricsOracle	0x1437c4...BD6B25
ERC8004ReputationRegistry	0x5DB1B4...F30656
ERC8004ValidationRegistry	0x44f124...0410B4
VaultfireERC8004Adapter	0x69D345...9494fe
MultisigGovernance	0x3ceA2B...67Bb79
ProductionBeliefAttestationVerifier	0xFa8ed6...dE4924
DilithiumAttestor	0x9CF1fc...1b6B56
VaultfireTeleporterBridge	0x1762e4...52ba58
VaultfireTrustAttestation	0x5F7680...7c0Cd1
VaultfireTaskEscrow	0xa7BD20...Cba81A
VKPSessionKeyManager	0xE02F50...6A5Cdc
VKPDelegationRegistry	0x3f3857...8219dB
VKPFactory	0x12f3e9...18aC40
VaultfireReputationStaking	0x322117...34bA79
VaultfireTrustOracle	0x01C479...d57441
VaultfireBondInsurancePool	0xf7B2dC...66BaA5
VaultfireCapabilityCredentials	0x6750D2...6C3dFE
VaultfireDisputeResolution	0x98afd1...fCbbD0
AgentInsurancePool	0x797906...FC2Ccd
AgentSafetyManager	0xC46d9d...807cb7
ComplianceRegistry	0x4fE18E...12f779
ReputationDecay	0xB622D2...0f1D9F
ScopedDelegation	0xD8A8c9...a55971
AgentSLAEnforcer	0x646343...88aFF9
VaultfireForumRegistry	0x80f64F...2BcA27

Arbitrum (33 contracts)

Contract	Address (tap to view)
AntiSurveillance	0xD9bF6D...Bdf2ba
PrivacyGuarantees	0xC574CF...25b4b4
ERC8004IdentityRegistry	0x83dd21...a492e9
BeliefAttestationVerifier	0xf92bae...7c6Da8
AIPartnershipBondsV2	0xdB54B8...A55a5F
AIAccountabilityBondsV2	0xef3A94...D9B6F0
FlourishingMetricsOracle	0x54e000...D06A55
ERC8004ReputationRegistry	0x8B8Ba3...911F92
ERC8004ValidationRegistry	0xa5CEC4...1ae272
VaultfireERC8004Adapter	0xBBc0EF...0530A4
MultisigGovernance	0x94F54c...Cb6Fb2
ProductionBeliefAttestationVerifier	0xf757f8...64DD23
DilithiumAttestor	0xA4F4ED...0AFd11
VaultfireTeleporterBridge	0x7b9293...E8848e
VaultfireTrustAttestation	0x1a7391...63533e
VaultfireNameService	0x744805...66A3f8
VaultfireTaskEscrow	0x5F7680...7c0Cd1
VKPSessionKeyManager	0x796d90...c610E2
VKPDelegationRegistry	0xA50599...2711de
VKPFactory	0x65adEd...eD4269
VaultfireReputationStaking	0x9d4Abe...01f96F
VaultfireTrustOracle	0xFeF83A...0B3C33
VaultfireBondInsurancePool	0xAca6fe...A0a5DB
VaultfireCapabilityCredentials	0x472dF1...88EDA6
VaultfireDisputeResolution	0x152a04...359e95
AgentInsurancePool	0x7E0297...deBa4f
AgentSafetyManager	0xa2bE41...C1e9c8
ComplianceRegistry	0x6f038c...8584Dd
ReputationDecay	0x700987...CcC03b
ScopedDelegation	0xd42BBf...80069b
AgentSLAEnforcer	0xF945aA...74B776
VaultfireForumRegistry	0x874043...da846e

Polygon (33 contracts)

Contract	Address (tap to view)
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AntiSurveillance	0xE2f75A...BD5045
PrivacyGuarantees	0x35978D...4858bC
ERC8004IdentityRegistry	0xD9bF6D...Bdf2ba
BeliefAttestationVerifier	0xC574CF...25b4b4
AIPartnershipBondsV2	0x83dd21...a492e9
AIAccountabilityBondsV2	0xdB54B8...A55a5F
FlourishingMetricsOracle	0xf92bae...7c6Da8
ERC8004ReputationRegistry	0x54e000...D06A55
ERC8004ValidationRegistry	0xBBC0EF...0530A4
VaultfireERC8004Adapter	0x94F54c...Cb6Fb2
MultisigGovernance	0x5DB1B4...F30656
ProductionBeliefAttestationVerifier	0xf757f8...64DD23
DilithiumAttestor	0xA4F4ED...0AFd11
VaultfireTeleporterBridge	0x7b9293...E8848e
VaultfireTrustAttestation	0x1a7391...63533e
VaultfireNameService	0x744805...66A3f8
VaultfireTaskEscrow	0x69D345...9494fe
VKPSessionKeyManager	0x4A614D...35c419
VKPDelegationRegistry	0x064d7e...44912C
VKPFactory	0x1d7eDE...9d8333
VaultfireReputationStaking	0x3ceA2B...67Bb79
VaultfireTrustOracle	0xFa8ed6...dE4924
VaultfireBondInsurancePool	0x9CF1fc...1b6B56
VaultfireCapabilityCredentials	0x1762e4...52ba58
VaultfireDisputeResolution	0x5F7680...7c0Cd1
AgentInsurancePool	0x5eAac9...D26952
AgentSafetyManager	0xCA5380...7cbdF3
ComplianceRegistry	0x2DF318...2DA42e
ReputationDecay	0x12f3e9...18aC40
ScopedDelegation	0xE02F50...6A5Cdc
AgentSLAEnforcer	0x3f3857...8219dB
VaultfireForumRegistry	0x80f64F...2BcA27

9. The 76 x402 endpoints

Base URL: theloopbreaker.com/api/x402/

Status codes you'll see: 402 = paywall working as designed (pay USDC), 200 = public read OK, 405 = POST-only write endpoint, 400 = needs params.

Core x402 Plumbing (4)

/contract-call · 402	/submit-signed · 405
/settle · 405	/verify · 405

Trust Reads (`/trust/\*`) (25)

/trust/agent-status · 402	/trust/multi-chain-status · 402
/trust/analytics · 402	/trust/performance · 402
/trust/bonds · 402	/trust/protocol-stats · 402
/trust/bridge · 402	/trust/relationships · 402
/trust/contracts · 402	/trust/reputation-decay · 402
/trust/credentials · 402	/trust/risk-score · 402
/trust/disputes · 402	/trust/safety-status · 402
/trust/flourishing-metrics · 402	/trust/scoped-delegations · 402
/trust/governance-proposals · 402	/trust/sla-status · 402
/trust/health · 200	/trust/street-cred · 402
/trust/history · 402	/trust/vns-resolve · 402
/trust/insurance · 402	/trust/vouching · 402
/trust/leaderboard · 402	

Trust Writes (`/actions/\*`) (44)

/actions/accept-bid · 405	/actions/register-agent · 405
/actions/approve-work · 405	/actions/register-for-partnership · 405
/actions/attest-belief · 405	/actions/register-vns-name · 405
/actions/batch-onboard · 405	/actions/report-mission-violation · 405
/actions/bridge-trust-message · 405	/actions/report-surveillance-violation · 405
/actions/cancel-task · 405	/actions/request-bond-distribution · 405
/actions/challenge-bond-metrics · 405	/actions/request-validation · 405
/actions/commit-vns-name · 405	/actions/revoke-consent · 405
/actions/contribute-insurance · 405	/actions/revoke-credential · 405
/actions/create-accountability-bond · 405	/actions/revoke-session-key · 405
/actions/create-partnership-bond · 405	/actions/slash-reputation · 405
/actions/create-session-key · 405	/actions/stake-as-validator · 405
/actions/create-task · 405	/actions/submit-accountability-metrics · 405
/actions/create-vkp-vault · 405	/actions/submit-feedback · 405
/actions/deactivate-agent · 405	/actions/submit-partnership-metrics · 405
/actions/dispute-task · 405	/actions/submit-trust-attestation · 405
/actions/file-attestation · 405	/actions/submit-validation · 405

/actions/file-insurance-claim · 405
/actions/file-vouch · 405
/actions/grant-consent · 405
/actions/issue-credential · 405
/actions/mint-street-cred · 405

/actions/submit-work · 405
/actions/transfer-vns-name · 405
/actions/trigger-reputation-decay · 405
/actions/unvouch · 405
/actions/update-agent-uri · 405

Oracle (`/oracle/\*`) (3)

/oracle/agent-stake-usd · 402
/oracle/chainlink-status · 200

/oracle/price-feed · 402

10. Repos and recovery

Repo	Original GitHub URL	What it is
ghostkey-316-vaultfire-init	github.com/Ghostkey316/ghostkey-316-vaultfire-init	Master init repo — contracts, scripts, audits
theloopbreaker-site	github.com/Ghostkey316/theloopbreaker-site	Live Next.js site → theloopbreaker.com (Vercel)
vaultfire-keyprotocol	github.com/Ghostkey316/vaultfire-keyprotocol	VKP smart-account substrate
vns	github.com/Ghostkey316/vns	.vns name service

11. GitHub suspension recovery plan

GitHub account Ghostkey316 was suspended on May 3, 2026 (~14:17 UTC). Public profile returns 404. Likely automated abuse-detection flag (rapid AI-assisted commits).

Appeal URL: support.github.com/contact/account-recovery

If appeal fails — Codeberg/GitLab fallback:

- Take the local /home/user/workspace/RECOVERY_KIT/repos/ folder (31 cleaned repos, no .git, no node_modules).
- Create equivalents on Codeberg or GitLab under same names.
- git init each repo, add new remote, push.
- Update theloopbreaker-site repo references in vaultfire SDKs / docs.
- Reissue MCP server registrations and Coinbase Bazaar listing pointers.

The live system is unaffected by the GitHub suspension. 134 contracts, 22 agents, 36 bonds, 76 x402 endpoints all run independently of GitHub.

12. Forbidden strings and operating rules

Never include in any artifact:

- The shredded deployer private key (lives only in shredded-key memory note)
- The leaked BaseScan API key — use placeholder <ROTATE_ME_LEAKED_BASESCAN_KEY>
- AWS keys (AKIA...), OpenAI keys (sk-...), GitHub PATs (ghp...), Slack tokens (xoxb-...)
- The word KYC except in the framing 'KYA, not KYC' / 'anti-KYC'
- Literal \u2014 escape sequences — use real em-dashes (—)

Never do:

- Redeploy any tier-2 bond / escrow contract — destroys 36 bonds with real escrow
- Use the compromised wallet 0xA054...b84F (bpow20.cb.id)
- Use MetaMask — workflow is mobile-only via Base App
- Push live deploys via git push — use Vercel CLI

— End of recovery reference —

