

Respectful Synchronised Protocol

Whitepaper & Event Token Minting Specification

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Protocol	lovekeylink.com/rsp
Genesis NFT	0xA1755730C6F66dbe3de29e24F4Db9F448ef3FDD5 · Token ID 1 · Ethereum
npm	@rsp-protocol/core · @rsp-protocol/react
GitHub	github.com/rsp

Translate behaviour. Synchronise the signal. Burn the identifiable source.

RSP is a privacy-first coordination framework. It defines how systems observe behaviour, translate it into weighted signals, synchronise group state, and irreversibly destroy the identifiable source. This document covers the protocol specification, NFT tier structure, Event Token design, and the Solidity smart contract specification for on-chain minting of Event Tokens on Base.

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Overview & Core Principles

RSP — Respectful Synchronised Protocol — is a privacy-first coordination framework built into the core of Love Key Link. It provides a formal model for how systems observe human or agent behaviour, translate it into low-resolution weighted signals, synchronise group state across nodes, and irreversibly destroy the identifiable source once it is no longer necessary.

RSP is not an analytics framework. It is not a profiling system. It is a protocol for coordination that treats privacy destruction as a first-class architectural primitive — not an afterthought.

Core Principles

Privacy by Destruction

Identifiable source data is removed, anonymised, or cryptographically erased as soon as it is no longer necessary. Retention is only permitted where required by law, explicit consent, safety, or legitimate accountability.

Weighted, Not Absolute

Behaviour is translated into weighted, low-resolution signals — never high-fidelity surveillance records. Signal weights are normalised and bounded. No single event produces a definitive judgement.

Synchronise, Never Coerce

Nodes synchronise toward shared states without forcing, ranking, or punishing individuals. The protocol describes group state, not individual verdicts.

Portable Across Systems

RSP applies equally to humans, AI agents, and hybrid systems. The same protocol governs wherever coordination meets privacy — education, healthcare, enterprise, civic governance, or multi-agent AI.

Consent Architecture

Signal collection requires valid consent. Consent state is tracked per node and per signal type. Signals collected without valid consent are rejected at the protocol level before translation.

Signal Model

RSP reduces raw behaviour to 13 low-resolution visual states. These states describe the coordination health of a node — not the behaviour of any individual within it. Signal weights control how strongly each event type contributes to state transitions.

Visual States

resonant	active	aware
dormant	friction	overload
drop_off	support_needed	cooling
converting	mastery	coordination_degraded
coordination_healthy		

Signal Weights

Event Type	Weight	Relative
Completion / conversion	25	100%
Return visit	20	80%
Safety escalation	20	80%
Resource download	15	60%
Human correction	12	48%
Form interaction	12	48%
Active minute	10	40%
Agent handoff	10	40%

The Burn Clause

When user behaviour is translated into a protocol signal, burn the identifiable source.

When user behaviour is translated, synchronised, aggregated, or converted into a protocol signal, any identifiable source information shall be removed, destroyed, cryptographically erased, or irreversibly decoupled as soon as it is no longer necessary — unless retention is required by law, explicit consent, safety, or legitimate accountability.

Three-Step Protocol

1 Translate Behaviour

Raw events from people, agents, or systems are converted into weighted, low-resolution signals. The event payload is never stored in its raw form beyond the translation window.

2 Synchronise the Signal

Translated signals are aggregated to produce a node state — resonant, friction, cooling, and so on. The node state describes collective coordination health, not individual behaviour.

3 Burn the Identifiable Source

Once a signal has been translated and aggregated, the identifiable source information is deleted, anonymised, cryptographically erased, or irreversibly decoupled. A burn receipt is generated as proof of destruction.

Integration Verticals

RSP is designed for any system where group coordination intersects with privacy. The protocol is agnostic to domain — the same five principles apply wherever behaviour is observed and group state must be maintained without surveilling individuals.

0 1	AI Model Congregations & Multi-Agent Systems	Coordinate agent behaviour and collective state without individual attribution.
0 2	LMS & Online Education	Track cohort engagement and learning health without profiling students.
0 3	Product Analytics & UX	Understand product health and friction without user-level surveillance.
0 4	Customer Support & AI Service Operations	Monitor service coordination quality without exposing individual ticket data.
0 5	Workplace Collaboration	Surface team coordination signals without creating employee surveillance infrastructure.
0 6	Healthcare & Care Coordination	Coordinate care team state while destroying patient-identifiable source data.
0 7	Governance, DAOs & Civic Coordination	Aggregate participation and deliberation signals with privacy-preserving destruction.
0 8	Cybersecurity & Incident Response	Coordinate incident state and response signals without retaining raw log identity.
0 9	Creator Platforms & Communities	Track community health and creator coordination without audience profiling.
1 0	E-commerce & Marketplaces	Measure market coordination signals without building persistent buyer profiles.

NFT Tier Structure

RSP NFTs are utility tokens — provenance, access, participation, and certification. They are not investment products. Each tier serves a distinct function within the protocol ecosystem.

Tier	Name	Type	Supply
0	Genesis NFT	Provenance anchor	Supply: 1 · Ethereum mainnet
1	Founder Pass	Early supporter access	Supply: 25–100 · 100 credits
2	Builder Pass	SDK access & priority review	Supply: 100–500 · 250 credits
3	Certification Badge	Verifiable credential	Issued after review
4	Partner Licence	Commercial partner marker	Approval-based
5	Audit Token	Proof of completed review	Service-based issuance
6	Event Token	Signal proof of coordination	Unbounded · auto-minted · Base

Genesis NFT

Token ID 1. Contract: 0xA1755730C6F66dbe3de29e24F4Db9F448ef3FDD5. The singular origin and provenance anchor for the RSP protocol. Held by Jack Oswald. Not for sale.

Event Token — Design Specification

The token proves the event. It cannot prove who caused it.

The Event Token (NFT Tier 6) is a cryptographic record that a validated coordination event occurred across an RSP node. It is the protocol's answer to a specific problem: how do you prove that coordination happened — verifiably, permanently — without retaining any recoverable trace of who was involved?

The answer is the burn receipt. Source identity is cryptographically destroyed at or before mint. The burn receipt hash — embedded in the token — proves that destruction happened. The coordination is verifiable. The person is not recoverable.

Token Payload

EXAMPLE TOKEN PAYLOAD	
event_type	coordination.resonant
signal_weight	20
node_state	resonant
timestamp	2026-06-16T14:00Z [hour-level blur]
burn_receipt	0xd4e8f3a1...c9f1a2
source_id	null // destroyed before mint

What the Token Carries vs Never Carries

WHAT THE TOKEN CARRIES	
+ Event type	e.g. coordination.resonant, safety.escalation
+ Signal weight	Normalised 0–25 contribution value
+ Node state at event	resonant, friction, cooling, etc.
+ Blurred timestamp	Hour-level resolution only — not exact time
+ Burn receipt hash	Proof that source identity was destroyed

WHAT IT NEVER CARRIES	
- Identity	No user ID, account reference, or profile link
- Raw location	No coordinates, IP address, or device signal
- Message content	No text, media, or payload from the event
- Exact timestamp	Sub-hour precision is discarded before mint

Mint Lifecycle

Event validated	A coordination event clears the validation delay and commits to node state.
Source identity burned	Identifiable data is cryptographically destroyed. A burn receipt hash is generated.
Token auto-minted	The RSP backend relayer calls mint() on the Event Token contract. Supply unbounded.
Verifiable, not traceable	Anyone can verify the coordination happened on-chain. No one can recover who caused it.

Supply is unbounded. One Event Token is minted per validated coordination event, across every RSP node, forever. There is no cap. The token is not scarce by design — its value is evidentiary, not speculative.

Event Token — Minting Contract Specification

This section defines the smart contract specification for the RSP Event Token. The contract is deployed on Base (Ethereum L2). It implements ERC-721, with mint authority restricted to a trusted RSP backend relayer address. This is a v1 specification — permissionless minting via ZK burn proof verification is a planned v2 upgrade.

Design Decisions & Rationale

Chain	Base — Ethereum L2. Low gas (~\$0.001–0.01/tx), strong EVM compatibility. Unbounded supply requires high-volume minting; mainnet gas is economically unviable. Genesis NFT (Tier 0) stays on mainnet as provenance anchor.
Token Standard	ERC-721 — Each Event Token represents a distinct coordination event with a unique payload. ERC-1155 implies editions of the same token (fungibility between events), which is semantically incorrect. At Base gas prices the cost difference is negligible.
Mint Authority	Trusted relayer — The RSP backend validates burn proofs off-chain before calling mint(). Clean for v1. Relayer address is upgradeable by contract owner without affecting token holders. Permissionless ZK verification is v2.
Metadata	On-chain via tokenURI override — Event payload stored on-chain in the token struct. No IPFS dependency for core signal data. Optional extended metadata URI may point off-chain.
Supply	Unbounded — No cap. One token per validated coordination event. The token is evidentiary, not speculative.
Burn receipt	Stored on-chain per token — The burn receipt hash is immutable once minted. It is the cryptographic proof that source identity was destroyed.

Contract Interface

The contract inherits from OpenZeppelin ERC721, Ownable, and ReentrancyGuard. All state-changing functions are protected against reentrancy. The relayer address is set by the owner and can be rotated without redeployment.

v1 uses a trusted relayer for simplicity and auditability. The planned v2 upgrade replaces the relayer model with permissionless minting, where anyone can mint an Event Token by submitting a valid zero-knowledge proof of burn. The ZK circuit will verify that a valid RSP burn event occurred without revealing the source identity. This requires a ZK proof system (e.g. Groth16 or PLONK) and an on-chain verifier contract. The ERC-721 token structure and EventPayload schema remain unchanged between v1 and v2.

RSP Credits & Services

RSP Coordination Credits are prepaid access to RSP services. 1 RSP Credit = £1 of redeemable RSP service value. Credits are not cash, not fiat-redeemable, not investments. They do not expire. All credit transactions are logged against the purchasing account.

Service Pricing

Service	Credits	Description
RSP Certification (Standard)	100 credits	Structured review against the five RSP principles. Written assessment and recommendations. No badge.
RSP Certification (Full + Badge)	250 credits	Standard review plus issuance of RSP Certification Badge (NFT Tier 3). Public verifiable credential.
RSP Partner Certification	1,000 credits	Enterprise certification covering multi-agent or commercial integrations. Includes Partner Licence (NFT Tier 4), registry co-authorship, and ongoing alignment support.
RSP Certifier Licence	1,000 credits	Upfront licence fee. Licensed certifiers conduct reviews independently and submit evidence. RSP countersigns and issues badges at 125 credits per issuance (50% discount). Licence recovers after 8 certifications.

Credits are fulfilled automatically after payment via Stripe. A confirmation is sent once credits are active on the account. Credits are redeemed against services at the time of service delivery.

Legal & Disclaimers

RSP NFTs — Not Investment Products

RSP NFTs (all tiers, including Event Tokens) are utility tokens. They represent access, provenance, participation, certification, or evidentiary records within the RSP protocol ecosystem. They are not investment products, financial instruments, securities, or stores of value. No representations are made regarding their future value or transferability.

RSP Credits — Not Currency

RSP Coordination Credits are prepaid service credits. They are not cash, not fiat-redeemable, and not transferable between accounts. They have no value outside of the RSP services ecosystem.

Protocol Specification

This whitepaper describes RSP v1.6 as of June 2026. The protocol may be updated. The minting contract specification in Section 7 is a design document. Deployment addresses will be published separately upon mainnet launch on Base.

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RSP — Respectful Synchronised Protocol v1.6