



Le-Space

SPIN-OFF E · PROTOTYPE

Relay Button on-chain

Relay deployments through a smart contract —
authorised, settled and capped

No account, no invoice, no fronting the money: the contract holds
the balance, releases the launch and settles on consumption.

[Docs](#)[Source](#)[npm](#)

The problem

The Relay Button launches infrastructure at the press of a button. Paying for it still works like everywhere else — and everything awkward follows from that.

- **The balance sits with the provider**

An account, a top-up, a relationship of trust. Exactly the dependency the rest of the stack avoids.

- **Deploying for others means fronting the money**

An app offering the Relay Button to its users pays first and bills afterwards — manually, and at its own risk.

- **One click costs money — with no cap**

An embedded launch button with no balance check is an open tab for anyone who finds it.

- **No share in the usage**

The toolkit is open source and gets used — but there is no path to earning anything from a node that was launched.

The solution: a prepaid vault

A contract holds the balance and releases it step by step. Four calls cover the whole flow.

- **Deposit** TODAY
`approve` and `deposit` with an ERC-20 token. The balance stays the user's — we never hold it.
- **Reserve** TODAY
`reserve(intentHash, amount, expiresAt)` — locked for this one deployment, with an expiry.
- **Consume** TODAY
`consume(intentHash, amount)` after the launch. What settles is what the node actually cost.
- **Refund** TODAY
If the deployment never comes up, `refund(intentHash)` releases the expired reservation. Nobody has to ask for it.

These four calls are not a design sketch: the client ships as `@le-space/browser` in the Relay Button monorepo — including balance reads, on Base, Avalanche and Ethereum.

More than paying: authorising

The real gain is not the payment but that the contract decides whether a node may start at all.

- **Money is bound to one intent**

The `intentHash` ties the reservation to exactly one deployment. The balance cannot be spent on something else.

- **The contract is the referee**

No reservation, no launch. The go-ahead no longer depends on a backend somebody runs and could switch off.

- **The cap is built in**

Only what was deposited can be spent. An embedded launch button can no longer surprise anyone.

- **Every launch has a receipt**

Reservation and consumption are transactions. Who launched what and when is verifiable without anyone keeping books.

How we earn

A fee per launched node — collected in the same step that settles it.

- **A fee on consumption**

The vault keeps a share on `consume`. No collections, no invoice, no bad debt.

- **Scales with usage, not with sales**

Every node anyone launches anywhere through the toolkit contributes — without us needing to know about it.

- **Non-custodial**

Until consumption the balance is the user's. We hold no customer funds — the same line as in spin-offs B and C.

- **Opens the toolkit to third parties**

Whoever embeds the Relay Button no longer fronts anything. That is what makes embedding it worth doing at all.

Who launches with it

Wherever somebody needs infrastructure but does not want a relationship with a provider.

App vendors

- Embed the Relay Button in their app
- Users pay for themselves, the app fronts nothing
- No billing system needed

Communities & DAOs

- A shared purse for a shared relay
- Visible who funded what, and for how long
- Keeps running as long as somebody tops it up

Agencies & resellers

- Deploy for clients without going into advance
- The client fills their own vault
- Fits the consulting business from spin-off D

Status & next steps

The client side exists and is published. What is missing is the contract behind it — and the fee inside it.

- **Vault client published** TODAY
Deposit, reserve, consume, refund plus balance and reservation reads — in `@le-space/browser`, for three EVM chains.
- **Publish the contract itself** IN PROGRESS
Source, deployment addresses and an audit. Without those the client is a key without a lock.
- **Build the fee logic in** IN PROGRESS
The share per launched node belongs in the contract, not on an invoice. Rate and recipient configurable.
- **Couple it to the lifecycle** PLANNED
Extend runtime, stop a node, return the remainder — and the same vault for providers beyond Aleph.

Open questions

Four points to settle before the first real balance goes in.

- **Who holds the balance**

Staying non-custodial is the whole precondition. The contract has to be built so we can never move a user's money — not even by accident.

- **Price and cost drift apart**

A node costs in euros and is paid in tokens. Between reservation and consumption that can move — stablecoin or buffer?

- **Gas per launch**

Reserving and consuming are two transactions. On an L2 that is negligible, on Ethereum it is not — the chain is a product decision.

- **Who is liable for the node**

When a contract rather than a person releases the launch: who operates what runs on it?
That needs an answer before somebody asks.

RELAY BUTTON ON-CHAIN

Let's talk

Wanted: an app that wants to embed the Relay Button without fronting the cost — and someone to finish and audit the vault contract with us.

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Docs

Source

npm