

zapier.georgelambert.org · Markdown indexes

VERAE TIME × ZAPIER

Address routing

site/packages/overview/86-address-routing.md

6. Address routing (including unplanned functions)

NATS **addresses** (subjects) are the extension point. A new search, store, or job type is a new address plus a process that listens — not a new Zapier TCP client.

Pattern

```

verae.access.<plane>.<area>.<resource>.<action>    # ingress (one plane)
verae.access.authz.check                          # authorization step
verae.<area>.<resource>.<action>                    # internal bus
verae.<area>.<resource>.reply.<correlationId>

```

Planes: `zapier` | `web` | `api` | `leaf` | `staff`. Default deny. A leaf cannot `balance.adjust`; Zapier cannot `statement.get`; a browser cannot `archive.put`.

Piece	Example	Meaning
<code>verae</code>	—	Verae bus (not Zapier)
<code>area</code>	<code>zapier</code> , <code>archive</code> , <code>search</code> , <code>store</code>	Product slice
<code>resource</code>	<code>jobs</code> , <code>hashes</code> , <code>blobs</code>	Noun
<code>action</code>	<code>watch</code> , <code>query</code> , <code>put</code> , <code>in</code>	Verb
<code>reply.<id></code>	—	Correlated response

Queue group (work sharing): `area-resource-action` (e.g. `job-poller`).

No queue group (fan-out): `archive/tree query` so every node sees every lookup.

Adding something that does not exist yet

1. Copy the independent repo **verae-nats-process** (`packages/verae-nats-process`).
2. Rename `verae.example.process.in` / `.out` / `.reply.*` in `src/subjects.js`.
3. Add a row to that repo's `ROUTING.md` and to `INDEX.md`.
4. Register the process in `verae-fleet` (`min` / `max` , machines, roles).
5. If an access plane must call it, add the subject to **verae-access-authz** policy for that plane only.
Zapier still never sees NATS.

Do **not** invent a public NATS URL for Zapier. Do **not** reuse `verae.archive.query` as a queue group.

New function = new address + clone of `verae-nats-process`

copy template repo
`verae-nats-process`

rename subjects
`verae.area.resource.action`

fleet min/max
`keepFloor + machines`

optional HTTPS
middleware only → Zapier

Existing: `verae.zapier.jobs.* · verae.archive.put|query|reply.*`

Unplanned search/store: `verae.search.*` or `verae.store.*` — same worker shape. Zapier never subscribes.

Broadcast queries: no queue group. Work queues: queue group. Bloom miss: no packet.

Address expansion