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VERAE TIME x ZAPIER

Access-plane authorization

[site/packages/verae-access-authz/README.md](https://zapier.georgelambert.org/packages/verae-access-authz/README.md)

verae-access-authz

Authorization step on the NATS **address path**. Zapier is only **one** access plane. Direct web, customer API, and server-to-server leaf nodes are separate, and each is default-deny against internal subjects.

Forgejo: <https://git.georgelambert.org/marchon/verae-access-authz>

Catalog: <https://zapier.georgelambert.org/packages/verae-access-authz/README.pdf>

Address path

```
client
→ verae.access.<plane>.<area>.<resource>.<action>      (ingress, that plane only)
→ verae.access.authz.check                             (allow / deny)
→ verae.<area>.<resource>.<action>                      (internal bus)
```

Internal subjects (`verae.billing.*`, `verae.archive.*`, `verae.zapier.jobs.*`) stay stable. Planes never publish them until `authz.check` returns `allow`.

Plane	Who	May reach
<code>zapier</code>	Zapier Platform HTTPS	<code>jobs.*</code> , <code>webhooks.deliver</code> , <code>billing.usage.recorded</code>
<code>web</code>	Customer browser portal	<code>statement.get</code> , <code>balance.adjust kind=reload payment</code>
<code>api</code>	Customer <code>x-api-key</code> (not Zapier)	<code>statement.get</code> , <code>usage.recorded</code> , <code>jobs.watch</code>
<code>leaf</code>	S2S NATS leaf / mTLS	<code>archive.</code> , <code>jobs.</code> , <code>webhooks</code> — not billing
<code>staff</code>	CS / sales / admin	<code>statement</code> , <code>balance.adjust (credits)</code>

A leaf node cannot credit an account. A Zapier hop cannot read a customer statement. A browser cannot `archive.put`.

```
NATS_URL=nats://127.0.0.1:4222 PORT=3020 npm start
curl -s http://127.0.0.1:3020/policy
curl -s -X POST http://127.0.0.1:3020/check -H 'content-type: application/json' \
  -d '{"plane":"leaf","subject":"verae.billing.balance.adjust"}
```