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VERAE TIME × ZAPIER

07 external resources

site/overview/07-external-resources.md

7. External resources: search, storage, and the chain

Resource	Where	How a Zap reaches it
Central chain (itemized SHA-256 + time + certificate)	<code>api.veraetime.net</code> or MOCK	HTTPS via middleware: create / wait / <code>GET /hashes/{sha256}</code>
Bulk Merkle root	Same chain, one seal	POST <code>/timestamp/batch</code>
Leaf proofs (hash only in a bulk summary)	Tree-node WORM on NATS	<code>GET /hashes/{sha}?includeTree=true</code> → <code>verae.archive.query kinds= tree</code>
Public / private metadata, files	WORM archives	<code>includeAttached</code> ; never on chain
Search (central)	Chain lookup	Zapier search Find Timestamp by SHA256
Search (external tree / extra stores)	NATS query to every node that might hold the key	Zapier search Find Hash (tree nodes + central)
Future search / store	New <code>verae.search.*</code> or <code>verae.store.*</code> process	Copy <code>verae-nats-process</code> ; optional middleware GET

Storage that is **not** the blockchain stays on WORM/tree nodes (and later any process that answers `verae.archive.query` or a new store address). The chain stores hash + time + certificate (+ Merkle root for batches).

External “unplanned” storage or search is the same pattern: new address, bloom or index on that node, silence on miss, aggregator or the template’s reply subject.