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merkle

site/docs/modules/verae-tree-node/merkle.md

verae-tree-node/merkle

Package: verae-tree-node**Source:** packages/verae-tree-node/src/merkle.js**Lines:** 97

What this module is

Implementation module in `verae-tree-node`. The tables below are extracted from the source (signatures + JSDoc).

Exports

`sha256Hex`, `parentHash`, `buildMerkle`, `merkleProof`, `verifyProof`, `shardIndex`

Types / interfaces / classes

None extracted.

Functions

Name	Parameters	Param types (JSDoc)	Returns	Calls (same file / helpers)
sha256Hex	data	data: string Buffer Uint8Array	string — lowercase hex	see Call graph
parentHash	left, right	left: string, right: string	unknown	see Call graph
buildMerkle	leaves	leaves: string[]	{ root: string, layers: string[][], leaves: string[] — }	see Call graph
merkleProof	layers, index	layers: string[][], index: number	Array<{ sibling: string, position: 'left' 'right' — >}	see Call graph
verifyProof	leaf, proof, root	leaf: string, root: string	unknown	see Call graph
shardIndex	sha256, n	sha256: string, n: number	unknown	see Call graph

What it imports / requires

- node:crypto

Call graph (identifiers invoked)

sha256Hex, isBuffer, from, createHash, update, digest, children, duplicated, parentHash, buildMerkle, map, toLowerCase, push, merkleProof, floor, verifyProof, nodes, shardIndex, slice, readUInt32BE

Each identifier is a call site in this file. Follow the import list to see the defining module; open that module's MD for parameter and return types.

Return values (how to read this)

- HTTP route handlers return Express `res.json(...)` bodies (see route docs).
- Zapier `perform` functions return a **single object** (creates) or an **array** (triggers/searches).
- Pricing functions return integer **cents** on `Quote.totalCents`.