

# DMN-TCK Conformance Audit Report

Independent verification against the official DMN-TCK kit

Auditor label: internal-cron

## PASS — 3495 / 3495

**Generated** 2026-05-10T08:46:41.225997127+00:00  
**Endpoint** <https://audit.vastar.id/vrule-dmn-tck>  
**Binary** dmn-tck-audit 0.1.0  
**Corpus root** /opt/audit/tck-corpus  
**Corpus SHA-256** (not computed)  
**Format** vastar.dmn-tck-audit.report v1

### Per-bucket summary

Bucket	Attempted	Passed	Failed
compliance-level-2	126	126	0
compliance-level-3	3369	3369	0
<b>Total</b>	<b>3495</b>	<b>3495</b>	<b>0</b>

Signatures: 3495 signed / 0 unsigned (Ed25519 verified inline by the CLI)

# Trust model + methodology

## Subject under test

A deterministic Business Rule Engine. Inputs: a DMN model (XML, DMN 1.3+), an input document (JSON), and a target decision name. Output: a materialised JSON document containing the decision's value and any decisions in its dependency closure.

## Test corpus

The bundle ships the official DMN Technology Compatibility Kit unmodified, with the upstream commit hash pinned in `tck-corpus.upstream.txt` and per-file SHA-256 in `tck-corpus.SHA256`. Auditors confirm by diffing against [github.com/dmn-tck/tck](https://github.com/dmn-tck/tck).

## What a single test case does

The CLI reads the test XML and DMN file, POSTs an `EvaluateRequest` to the rule engine, verifies the Ed25519 signature on the response, parses the materialised output, and compares against the expected value declared in the kit. The comparison is performed locally — the rule engine cannot fake a pass.

## Three trust properties

(1) Corpus integrity: per-file SHA-256 + upstream commit hash. (2) Response correctness: the engine returns materialised output, not a boolean; the CLI compares locally. (3) Response authenticity: every response is wrapped in an Ed25519-signed envelope; the CLI refuses any case whose signature does not verify against the bundled `audit-server.pubkey`.

## Out of scope

Latency / throughput claims, internal compilation strategy, authoring or provisioning verbs. The audit verifies behaviour against the public DMN-TCK kit and nothing else. The endpoint refuses any HTTP path beyond the audit surface.