Evidence and replay

The record a reviewer needs to check, repeat and compare an analysis.

Capture each run

A replayable record needs the input snapshot, the interpreted request, model and rule versions, the resulting claims, and the evidence and derivation associated with those claims.

Preserve provenance

Give each evidence item an identifier and a source reference. Associate each output claim with the evidence and rule steps it uses. Keep a record of which inputs the system treated as unknown.

Compare runs

Repeat the same computation with the recorded versions to check reproducibility. A run with a new rule set or revised facts becomes a new record linked to the earlier one.

Test the boundary

An acceptance test should include a normal case, a missing fact, a conflicting fact and a revised rule. Reviewers should be able to distinguish an incomplete result from a claim supported by the supplied facts.