



MODULE MANUAL

Versions, branches, collaboration and approval

Develop, compare, review and restore alternatives traceably

DOCUMENT BASIS

Product workflows, visible results, review criteria, evidence boundaries and controlled handover.

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6 OCTOBER 2026



Document control

One controlled basis for public product guidance.

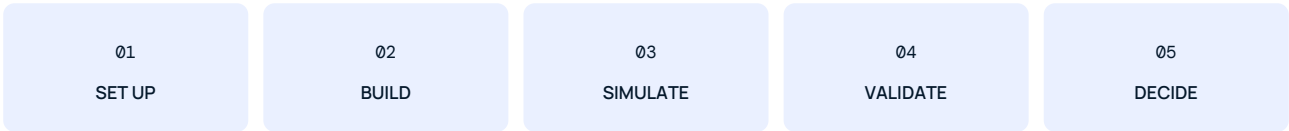
FIELD	VALUE
Document ID	M09-EN-4.2
Release	4.2
Reviewed	6 October 2026
Audience	All editors, Model Owner, Reviewer, Approver, Project Lead
Purpose	Which change was approved by whom, why and with which technical impact?
Owner	Acatian Product and Engineering

APPLICABILITY LIMIT

This manual explains the product workflow and the evidence needed to interpret its outputs. It does not replace qualified engineering judgement, customer quality systems, safety review, equipment-vendor data or validation for a regulated intended use.

Scope and use

Use the navigation path, input register, visible-result description, review criteria and handover record together. A screen or exported number without its model version, basis, unit, evidence status and limitations is not a controlled engineering result.

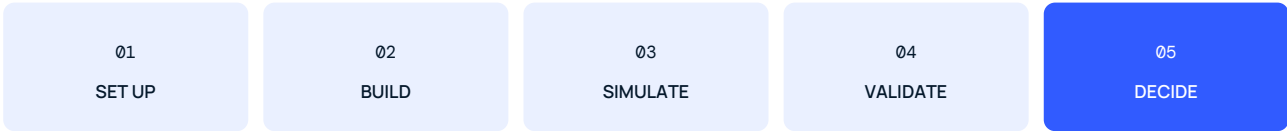


LANGUAGE

This document is written consistently in English. Product navigation names remain as displayed in the interface.

Versions, branches, collaboration and approval

Develop, compare, review and restore alternatives traceably



ENGINEERING DECISION	PATH IN ACATIAN
Which change was approved by whom, why and with which technical impact?	Projects + versions > Branches / Versions / Collaborators / Review

PRIMARY USERS	PERMITTED MATURITY
All editors, Model Owner, Reviewer, Approver, Project Lead	Keep branch status separate from model maturity; a merge is not technical validation

START WITH THE DECISION

Acatian uses a Git-like model history. Baselines remain protected, alternatives live in branches, diffs expose structural and KPI impact, and approvals capture author, reviewer and residual uncertainty.

Expected artifacts

ARTIFACT	RECIPIENT
Module result package	Engineering reviewer
Readiness register	Model owner
Controlled version	Project team

Prepare the model

INPUT	WHY IT MATTERS	READY WHEN
Baseline	Defines the controlled starting state.	Version, scope, maturity and approval are fixed.
Change request	States objective, scope and risk.	Owner, affected modules and acceptance criteria are defined.
Branch	Isolates alternatives and parallel work.	Name, base version, owner and purpose are unique.
Review roles	Prevents self-approval for critical changes.	Author, reviewer and approver are separated.
Diff basis	Compares model structure and results, not only text.	Parameters, units, streams, equations, KPIs and evidence are included.

Preflight check

CHECK	Confirm the correct project, branch and controlled version
CHECK	Verify units, provenance and permissions
CHECK	Save a restore point before a decision-relevant change
CHECK	Keep blocking gaps visible

Workflow

01

Create branch

Create a named alternative from the approved baseline.

VISIBLE RESULT: Branch shows base commit, owner and purpose.

02

Make the change

Edit only the change scope and version intermediate work.

VISIBLE RESULT: Audit trail lists structured operations.

03

Inspect before/after

Compare flowsheet, parameters, data, equations, schedule and results.

VISIBLE RESULT: The diff explains change and impact.

04

Request review

Invite a reviewer with context, criteria and open findings.

VISIBLE RESULT: Review state and comments are linked to the model.

05

Close findings

Document correction, rationale or accepted residual risk.

VISIBLE RESULT: No blocking finding remains unanswered.

06

Merge and approve

Merge the reviewed branch and create a controlled version.

VISIBLE RESULT: Approval includes author, reviewer, date, maturity and restore point.

07

Test restore

Open the previous version in a test context.

VISIBLE RESULT: Model and artifacts are reproducible.

Review the result

CRITERION	PASS CONDITION	IF IT FAILS
Scope and structure	The documented criterion is satisfied and supported by traceable evidence.	Correct the model or keep the output Not decision-ready.
Units and balances	The documented criterion is satisfied and supported by traceable evidence.	Correct the model or keep the output Not decision-ready.
Evidence and uncertainty	The documented criterion is satisfied and supported by traceable evidence.	Correct the model or keep the output Not decision-ready.
Reproducibility	The documented criterion is satisfied and supported by traceable evidence.	Correct the model or keep the output Not decision-ready.
Review state	The documented criterion is satisfied and supported by traceable evidence.	Correct the model or keep the output Not decision-ready.

APPLICABILITY LIMIT

Versioning makes changes traceable, not automatically correct. Merge does not replace validation or QMS signatures.

Troubleshooting

OBSERVATION	LIKELY CAUSE	CORRECTION
The result looks plausible but cannot be explained	Inputs, units, model version or evidence are missing.	Open the relevant register, restore traceability and rerun.
A change affects unexpected outputs	Dependencies or imported mappings were not reviewed.	Inspect the change plan and before/after diff; undo if required.
The module appears complete but readiness is low	Required industrial evidence is still missing.	Assign the visible gaps and keep maturity at Screening or Not decision-ready.

Controlled handover

ARTIFACT	RECIPIENT	MUST CONTAIN
Module result package	Engineering reviewer	Inputs, calculations, results, units, intervals, maturity
Readiness register	Model owner	Gap, required work, owner, due date, intended use
Controlled version	Project team	Branch, version, change note, reviewer and restore point

Completion check

CHECK	The active project, branch, version and intended use are visible.
CHECK	Inputs carry units, provenance, review state and uncertainty where relevant.
CHECK	Blocking model, physical, numerical and evidence gaps are closed or assigned.
CHECK	The result maturity matches the available evidence.
CHECK	The output package opens correctly and includes its limitations.

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