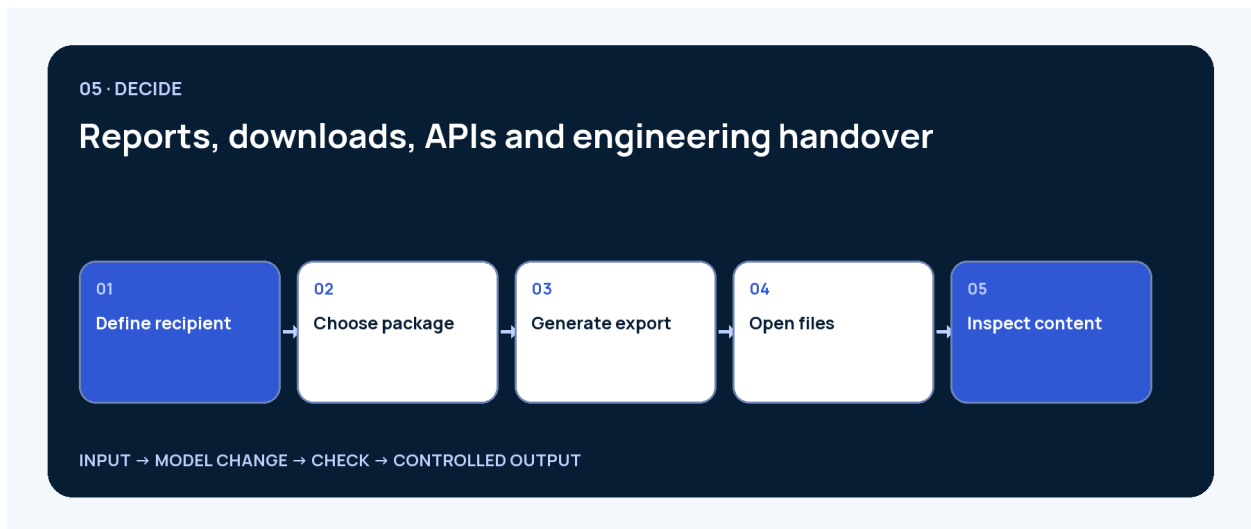


Reports, downloads, APIs and engineering handover

Hand over complete, readable and reproducible engineering results



EDITION 2.6 · 19 AUGUST 2026 · MODULE MANUAL · 05 · DECIDE

Axion · Bioprocess engineering software



At a glance

Engineering decision	Path in Axion
Can a third party understand the claim, evidence basis, model version and limitations without hidden knowledge?	Decide → Reports & downloads / API export
Primary users	Permitted maturity
Engineering, TEA/LCA, QA, customers, suppliers, management, data teams	Every export inherits model maturity; file format never increases validity

DECISION RULE

A complete handover is more than headline KPIs. Axion exports long-form tables, visuals, process graph, inputs, equations, uncertainty, readiness, version and manifest together.

Relevant Axion workspace for this module manual.



Prepare the model

Input	Why it is required	Ready when
Controlled version	Fixes the state behind each artifact.	Project, branch, version, run ID and maturity are known.
Output scope	Defines recipient and required detail.	Review question and formats are selected.
Units and metadata	Prevents unusable tables.	Unit, basis, interval, source and time context are included.
Confidentiality	Restricts confidential data sharing.	Classification, recipient and redaction are reviewed.
Integrity	Supports verification and restore.	Manifest, checksums and model snapshot exist.

Preflight check

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

APPLICABILITY LIMIT

A complete export documents model state; it does not turn a screening result into a validated result.



Workflow

1. Define recipient

1. Set engineering, TEA/LCA, QA, supplier or management and their question.

VISIBLE RESULT

The output set matches the user task.

2. Choose package

2. Select complete package or targeted XLSX/CSV/PDF/SVG/JSON/API artifacts.

VISIBLE RESULT

The list shows content, rows/sheets and version.

3. Generate export

3. Create the package and write the manifest.

VISIBLE RESULT

Download completes with stable filenames.

4. Open files

4. Test XLSX in Excel, PDF in viewer, SVG in browser and CSV delimiter.

VISIBLE RESULT

No repair warning, clipping or encoding error.

5. Inspect content

5. Verify cover, dictionary, units, inputs, long-form results, gaps and version.

VISIBLE RESULT

A third party can reproduce the claim.

6. Hand over and archive

6. Record package, approval, recipient and retention.

VISIBLE RESULT

Handover record and restore point exist.



7. Automate API

7. Use JSON/REST/webhook with minimal scopes and schema version.

VISIBLE RESULT

The consumer validates schema and idempotency.



Review the result

Review 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.

DECISION RULE

A complete export documents model state; it does not turn a screening result into a validated result.



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.



Handover and next steps

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

- The active project, branch, version and intended use are visible.
- All inputs have units, provenance, review state and uncertainty where relevant.
- Blocking model, physical, numerical and evidence gaps are closed or assigned.
- The result maturity matches the available evidence.
- A controlled output package opens correctly and includes limitations.

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