CIMDATA PLM ROAD MAP & PDT EMEA 2026 · GOTHENBURG

The Missing Strand in the Digital Thread: Giving Your Product Lifecycle a Pulse

Every part is on the thread. The materials inside them aren't.

BRENDA JAROKER · UNCOUNTABLE

PLM Road Map™ & PDT EMEA 2026

AI in PLM: A Disruptive Opportunity and Challenge

Turning AI disruption into enterprise value:
Strategic insights for the PLM professional

4-5 November 2026

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THE ARGUMENT

Your digital thread stops at the part number.

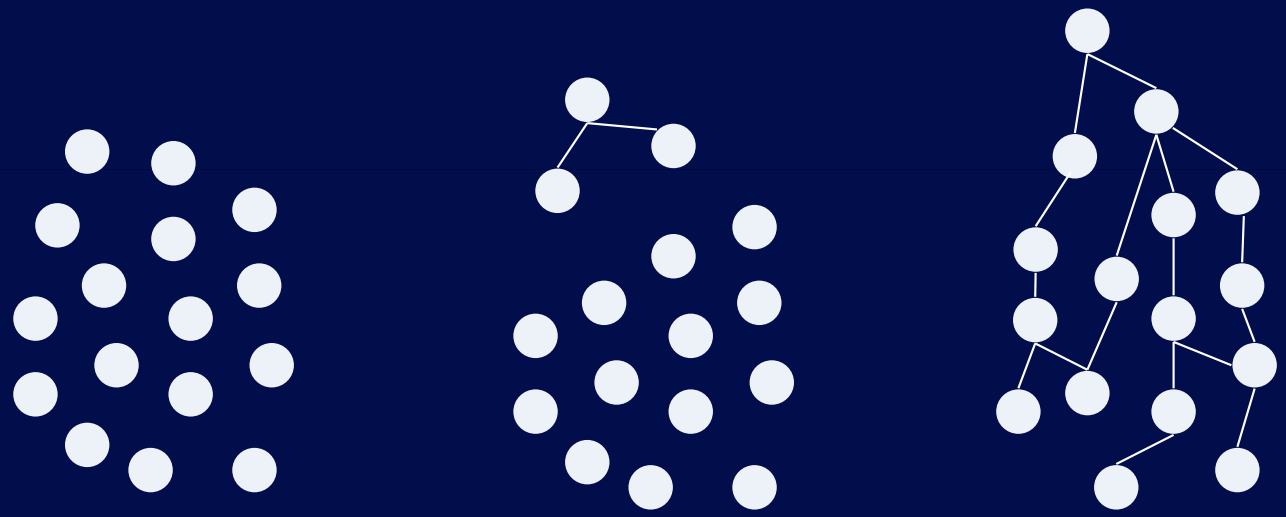
Below it, the material is a declaration PDF. The lifecycle has no pulse.

THE PROBLEM

The Static BOM Illusion: Real-world materials change post-release, but the digital thread is blind.

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1. **Materials change under the part number**
2. **Retrospective compliance changes**
3. **Test results arrive after release**

WHAT TODAY'S DIGITAL THREAD DOES

- Part revision: unchanged
- Compliance flag: still "pass"
- Test data: stuck in a PDF

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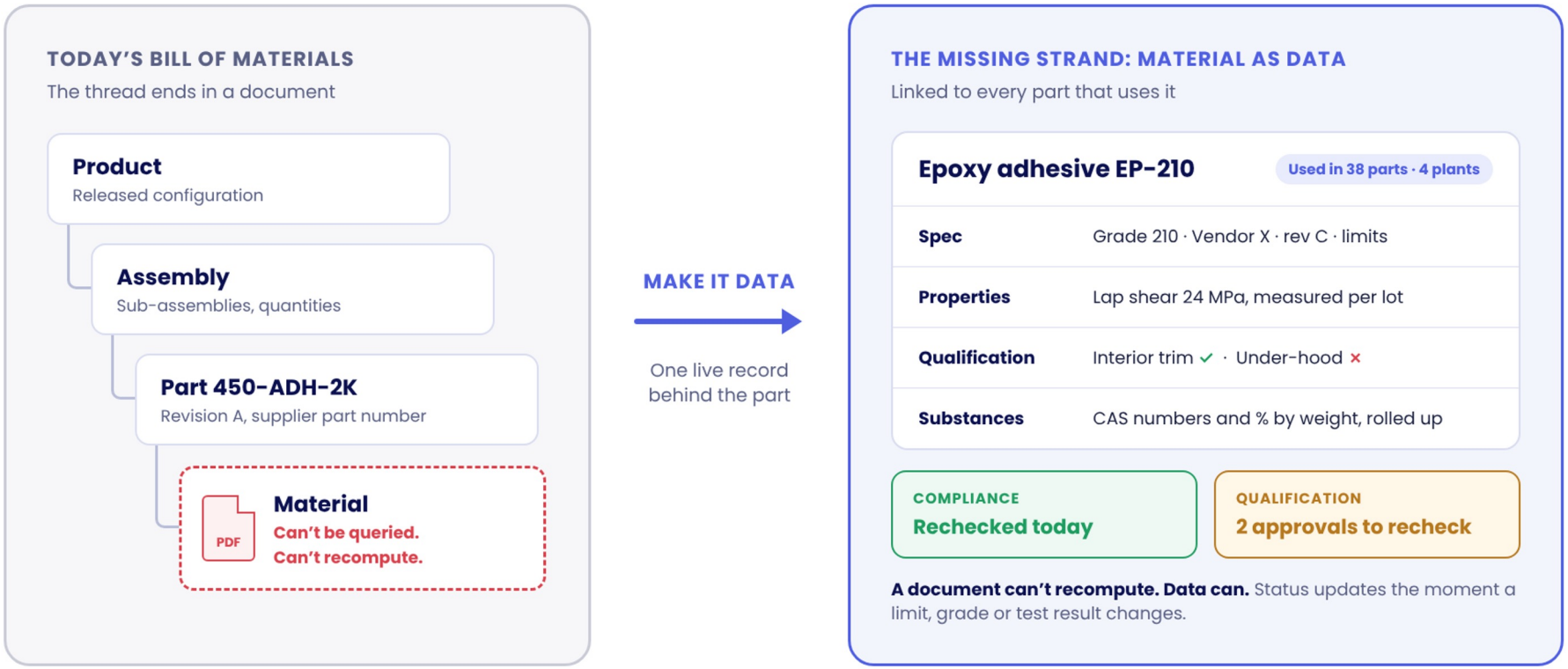
3. **Test results arrive after release**
   A lot or a supplier audit fails.
   Nobody can list the affected parts.

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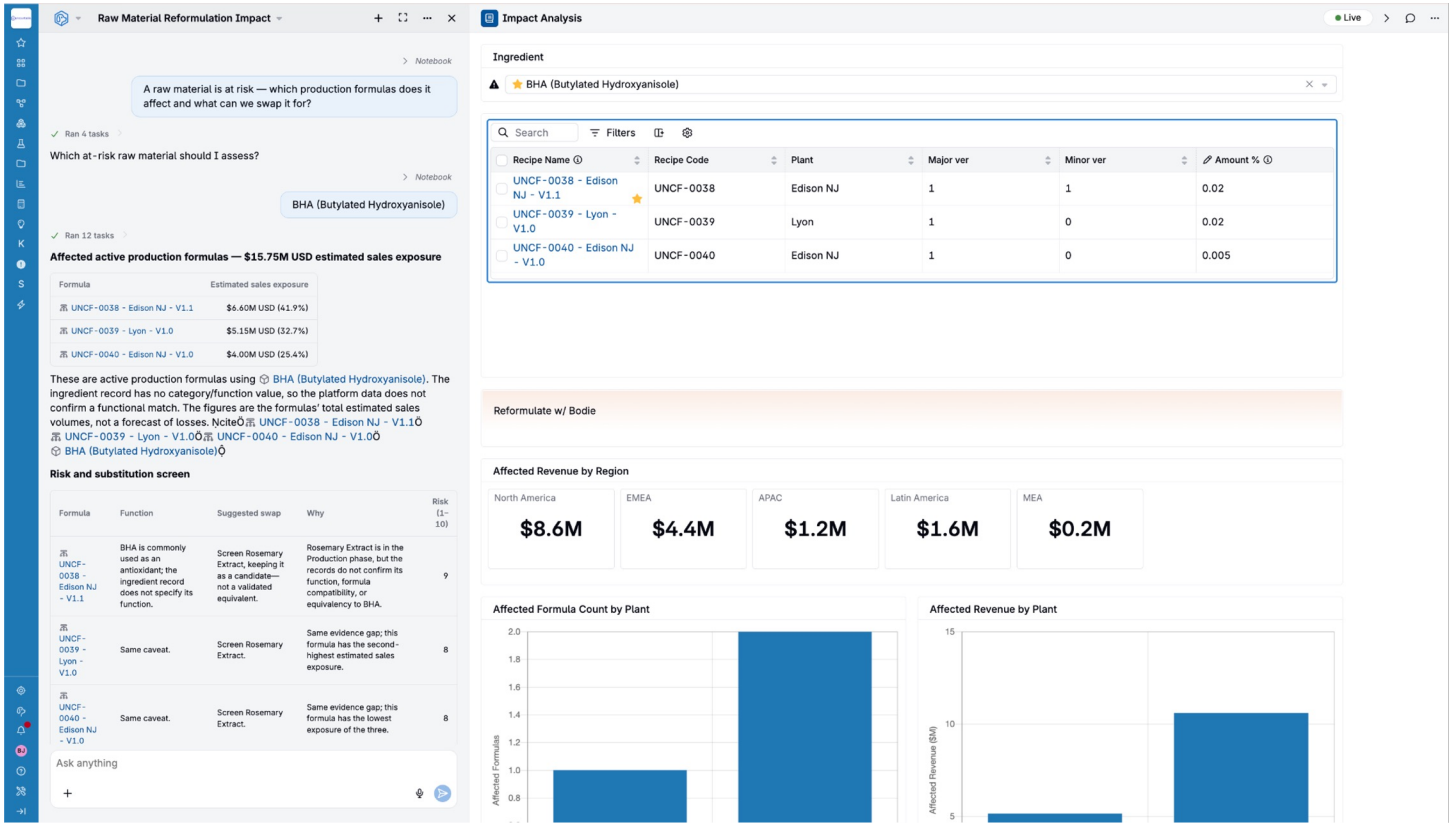
THE MISSING STRAND

Below the part, the material is a document, not data



WHAT A LIFECYCLE WITH A PULSE DOES

Monday's change, Monday's answer



One change, every exposure

Every affected part, by plant and version, the same day.

Today: a manual sweep of where-used reports and spreadsheets.

Impact analysis for one material change

WHAT A LIFECYCLE WITH A PULSE DOES

Monday's change, Monday's answer

MONDAY 09:12

SUPPLIER NOTICE

Vendor X changes the resin grade in EP-210

Same material number. New chemistry.

MONDAY 09:13

EXPOSURE, AUTOMATICALLY

38 affected parts	**6** programs
4 plants	**€41M** revenue at risk

AFFECTED PARTS: EP-210

Every part that uses it, by program, plant and revision

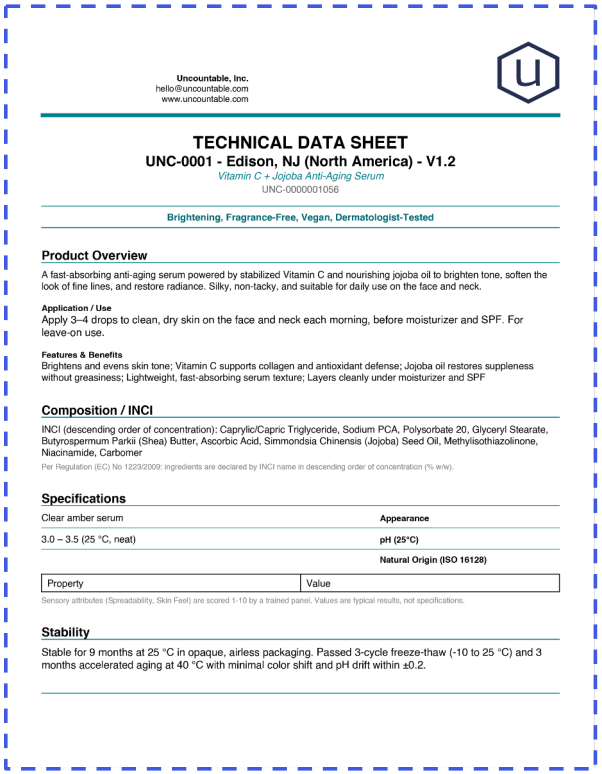
PART	PROGRAM	PLANT	REV	ACTION
450-ADH-2K	Door module	Gothenburg	A	Requalify
212-BRK-07	Seat frame	Gothenburg	C	Requalify
507-HSG-03	Sensor housing	Ghent	A	Not qualified
318-SEAL-11	Roof module	Ghent	B	Still compliant
611-TRM-22	Cockpit trim	Pune	D	Still compliant
+ 33 more parts				

REVENUE AT RISK BY PLANT



WHAT A LIFECYCLE WITH A PULSE DOES

Respond, don't just alert



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TECHNICAL DATA SHEET
UNC-0001 - Edison, NJ (North America) - V1.2

Vitamin C + Jojoba Anti-Aging Serum

UNC-0000001056

Brightening, Fragrance-Free, Vegan, Dermatologist-Tested

Product Overview

A fast-absorbing anti-aging serum powered by stabilized Vitamin C and nourishing jojoba oil to brighten tone, soften the look of fine lines, and restore radiance. Silky, non-tacky, and suitable for daily use on the face and neck.

Application / Use
Apply 3–4 drops to clean, dry skin on the face and neck each morning, before moisturizer and SPF. For leave-on use.

Features & Benefits
Brightens and evens skin tone; Vitamin C supports collagen and antioxidant defense; Jojoba oil restores suppleness without greasiness; Lightweight, fast-absorbing serum texture; Layers cleanly under moisturizer and SPF

Composition / INCI

INCI (descending order of concentration): Caprylic/Capric Triglyceride, Sodium PCA, Polysorbate 20, Glyceryl Stearate, Butyrospermum Parkii (Shea) Butter, Ascorbic Acid, Simmondsia Chinensis (Jojoba) Seed Oil, Methylisothiazolinone, Niacinamide, Carbomer

Per Regulation (EC) No 1223/2009: ingredients are declared by INCI name in descending order of concentration (% w/w).

Specifications

Clear amber serum	**Appearance**
3.0 – 3.5 (25 °C, neat)	**pH (25°C)**
	Natural Origin (ISO 16128)

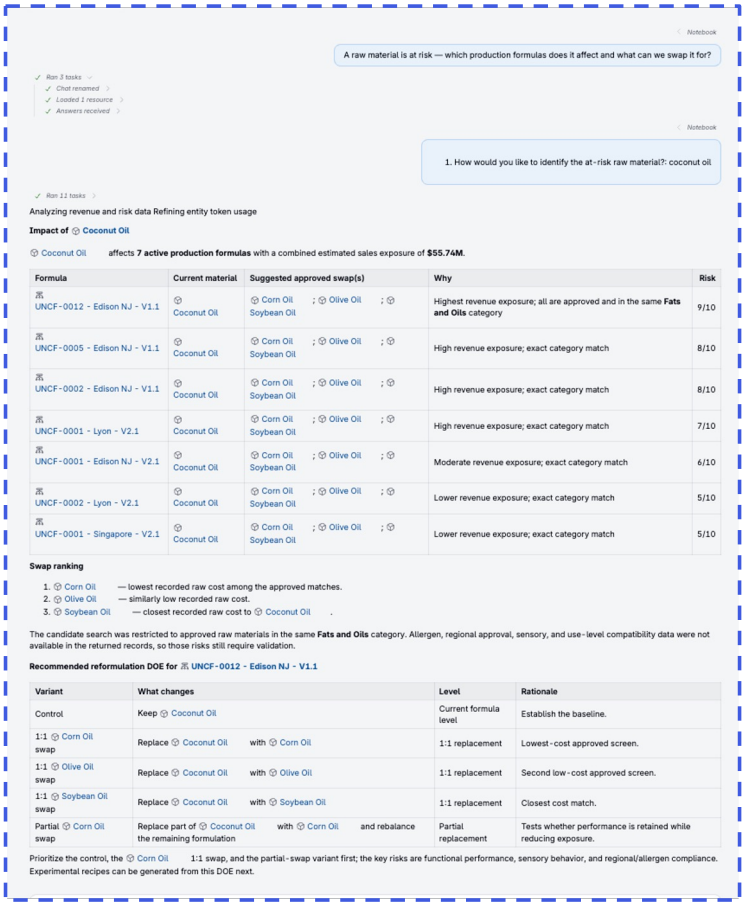
Property	Value

Sensory attributes (Spreadability, Skin Feel) are scored 1-10 by a trained panel. Values are typical results, not specifications.

Stability

Stable for 9 months at 25 °C in opaque, airless packaging. Passed 3-cycle freeze-thaw (-10 to 25 °C) and 3 months accelerated aging at 40 °C with minimal color shift and pH drift within ±0.2.

Documents regenerate from the current record.



Notebook

A raw material is at risk — which production formulas does it affect and what can we swap it for?

✓ Ran 3 tasks
✓ Chat renamed
✓ Loaded 1 resource
✓ Answers received

Notebook

1. How would you like to identify the at-risk raw material?: coconut oil

✓ Ran 11 tasks

Analyzing revenue and risk data Refining entity token usage

Impact of Coconut Oil

Coconut Oil affects **7 active production formulas** with a combined estimated sales exposure of **$55.74M**.

Formula	Current material	Suggested approved swap(s)	Why	Risk
UNCF-0012 - Edison NJ - V1.1	Coconut Oil	Corn Oil ; Olive Oil ; Soybean Oil	Highest revenue exposure; all are approved and in the same **Fats and Oils** category	9/10
UNCF-0005 - Edison NJ - V1.1	Coconut Oil	Corn Oil ; Olive Oil ; Soybean Oil	High revenue exposure; exact category match	8/10
UNCF-0002 - Edison NJ - V1.1	Coconut Oil	Corn Oil ; Olive Oil ; Soybean Oil	High revenue exposure; exact category match	8/10
UNCF-0001 - Lyon - V2.1	Coconut Oil	Corn Oil ; Olive Oil ; Soybean Oil	High revenue exposure; exact category match	7/10
UNCF-0001 - Edison NJ - V2.1	Coconut Oil	Corn Oil ; Olive Oil ; Soybean Oil	Moderate revenue exposure; exact category match	6/10
UNCF-0002 - Lyon - V2.1	Coconut Oil	Corn Oil ; Olive Oil ; Soybean Oil	Lower revenue exposure; exact category match	5/10
UNCF-0001 - Singapore - V2.1	Coconut Oil	Corn Oil ; Olive Oil ; Soybean Oil	Lower revenue exposure; exact category match	5/10

Swap ranking

1. Corn Oil — lowest recorded raw cost among the approved matches.
2. Olive Oil — similarly low recorded raw cost.
3. Soybean Oil — closest recorded raw cost to Coconut Oil .

The candidate search was restricted to approved raw materials in the same **Fats and Oils** category. Allergen, regional approval, sensory, and use-level compatibility data were not available in the returned records, so those risks still require validation.

Recommended reformulation DOE for UNCF-0012 - Edison NJ - V1.1

Variant	What changes	Level	Rationale
Control	Keep Coconut Oil	Current formula level	Establish the baseline.
1:1 Corn Oil swap	Replace Coconut Oil with Corn Oil	1:1 replacement	Lowest-cost approved screen.
1:1 Olive Oil swap	Replace Coconut Oil with Olive Oil	1:1 replacement	Second low-cost approved screen.
1:1 Soybean Oil swap	Replace Coconut Oil with Soybean Oil	1:1 replacement	Closest cost match.
Partial Corn Oil swap	Replace part of Coconut Oil with Corn Oil and rebalance the remaining formulation	Partial replacement	Tests whether performance is retained while reducing exposure.

Prioritize the control, the Corn Oil 1:1 swap, and the partial-swap variant first; the key risks are functional performance, sensory behavior, and regional/allergen compliance. Experimental recipes can be generated from this DOE next.

AI proposes qualified alternatives. A person approves.

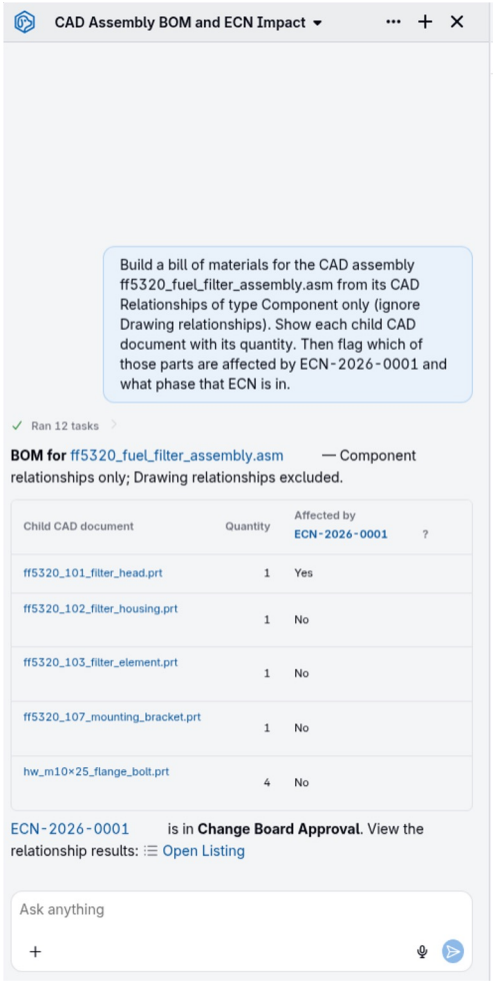
COMPLETING THE THREAD

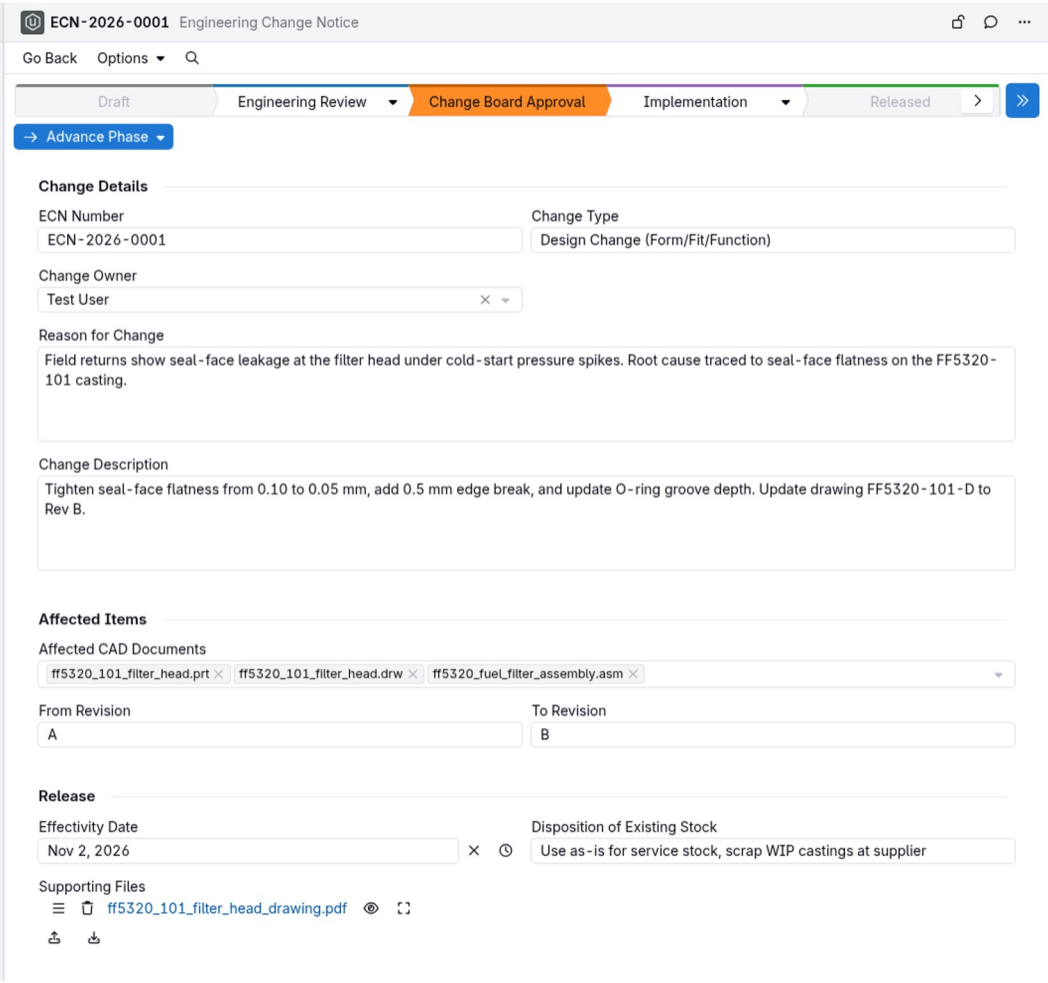
Add the material strand to the thread you already run

The thread already reaches CAD
Bodie builds the BOM straight from the Creo assembly.

A change knows its impact
ECN-2026-0001 flags the affected part.

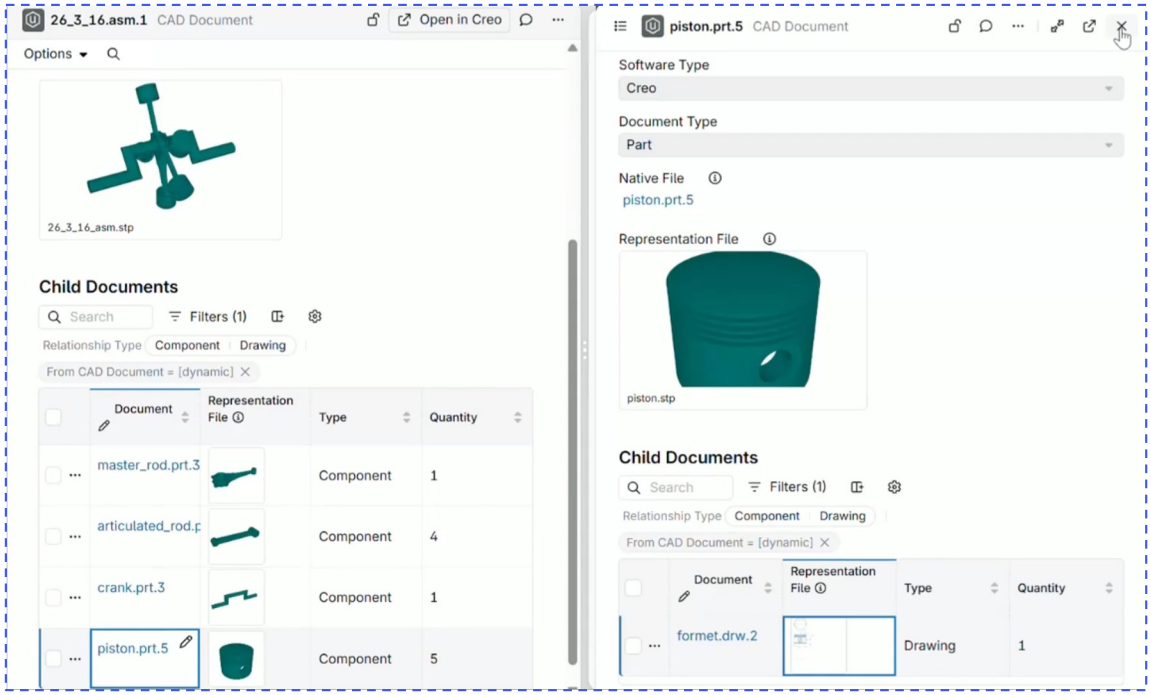
Built-in change control
Rev A to B, board approval, effectivity and stock disposition on one record.





COMPLETING THE THREAD

One material record that gives the thread a pulse



Creo CAD component opened with its material record

1. **Impact analysis**
   Every affected part, plant and revenue line
2. **Live compliance checks**
   Rechecked when a limit, grade or test changes
3. **CAD linked to material**
   Creo components open with their material record
4. **Change workflows**
   Approvals and changes sync to SAP and your PLM

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THE TAKEAWAY

Complete the thread. Give it a pulse.

Please give me feedback on my presentation

A supplier change on Monday. Every affected part, compliance rerun and requalification plan *on Monday.*

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