PLM / Engineering Change

User Guide

Odoo 18 / 19 Community & Enterprise

Manufacturing

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Technical reference

Technical name	gb_plm_engineering_change
Version	18.0.1.0.0
Odoo series	18.0 and 19.0
Category	Manufacturing
Depends on	base, mail, mrp
Licence	LGPL-3
Data models	gb.plm.eco, gb.plm.eco.line, gb.plm.bom.revision, gb.plm.start.eco.wizard, gb.plm.whe

1. Overview

Product Lifecycle Management is usually an Odoo Enterprise feature. This app brings BoM versioning, a controlled Engineering Change Order (ECO) workflow, where-used analysis and full revision history to Community at one price.

An ECO captures the proposed change lines, routes through Submit → Send for Approval → Approve → Make Effective, and writes a snapshot to the BoM revision history when it becomes effective.

Who is it for?

- Manufacturers controlling BoM changes.
- Engineering and quality teams needing change traceability.
- Community users who cannot license Enterprise PLM.

2. Installation

The module installs like any standard Odoo app. You need the Administration / Settings access right to install apps.

- Enable developer mode is not required for normal use.
- Open Apps from the main menu.
- Click Update Apps List (top menu) so Odoo re-reads the addons folder.
- Remove the default Apps filter and search for "PLM / Engineering Change" (technical name **gb_plm_engineering_change**).
- Click Install. The dependencies (base, mail, mrp) are installed automatically.

After installation a new top-level menu becomes available (see Configuration below). On a multi-company database, install once; the records are company-aware where the underlying models are.

3. Configuration

The module depends on Odoo mrp; ensure your bills of material exist first.

Open the PLM top menu, which contains Engineering Changes, New Change, Revision History and Where Used.

4. Step-by-step Walkthrough

The flow below uses the real menus, buttons and statuses shipped with the module. Labels are quoted exactly as they appear in the interface.

4.1 Raise an engineering change

1. Use New Change (gb.plm.start.eco.wizard) or create an ECO directly (gb.plm.eco) with a reason and change type.
2. Add the Change Lines describing each component change (gb.plm.eco.line).

4.2 Route it for approval

1. Click Submit, then Send for Approval.
2. An approver clicks Approve or Reject (with a rejection reason); Reset to Draft is available.

4.3 Make it effective

1. Click Make Effective to apply the change and write a snapshot to the BoM revision history (gb.plm.bom.revision).

4.4 Investigate where a part is used

1. Open Where Used (gb.plm.where.used.wizard) to list every BoM that consumes a component before you change it (gb.plm.where.used.line).

5. Feature Reference

Every feature below is implemented in the module; the model behind each one is named in brackets so administrators can locate it.

Engineering Change Orders

Controlled change with reason and type moving Submit → Approval → Effective (gb.plm.eco).

Change lines

Itemised component changes with a line snapshot (gb.plm.eco.line).

BoM revision history

A snapshot is written each time an ECO becomes effective (gb.plm.bom.revision).

Where-used explorer

List every BoM that uses a component (gb.plm.where.used.wizard / .line).

Approval workflow

Send for Approval, Approve or Reject with reasons, and Reset to Draft.

Start-ECO wizard

Kick off a change quickly (gb.plm.start.eco.wizard).

6. Tips, Troubleshooting & FAQ

Q: Do I need Enterprise for PLM?

A: No - this brings ECO and BoM versioning to Community.

Q: How do I know what a change affects?

A: Use Where Used to list every BoM consuming the component.

Q: When is the BoM revision recorded?

A: When the ECO is made effective a snapshot is written to the revision history.

Q: Can a change be rejected?

A: Yes - approvers can Reject with a reason; Reset to Draft reopens it.

Q: What states does an ECO have?

A: Draft → Submitted → Awaiting Approval → Approved → Effective (or Rejected/Cancelled).

Q: Does it require the mrp module?

A: Yes - it depends on mrp for bills of material.

7. Support

We are happy to help you get the most out of this app.

Email	support@pokutsoft.com
Catalogue	https://pokutsoft.com
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Licence	LGPL-3
Supported	Odoo 18.0 and 19.0

When reporting an issue please include your Odoo version, the module version (18.0.1.0.0), the menu/screen you were on and the exact error text. This module performs all processing inside your Odoo instance unless an external connector is explicitly configured by you.