Bill of Materials Comparison

Managing the Bill of Materials (BOM) efficiently is crucial for ensuring product quality and production efficiency. Here we'll explain the challenges associated with BOM Management and how the Menidx solution can help using the example of designing a drill.
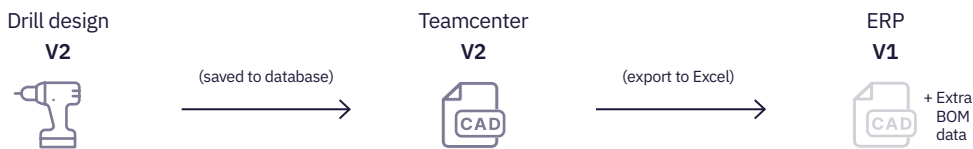
Challenges of BOM management

Your designer has completed version 1 of an initial drill design

- Version 1 is then pushed to Teamcenter and stored in a database.
- This also needs to be pushed out to ERP. Connectors can be used for this purpose, but they are expensive and have certain constraints.
- Some designers export BOM out of Teamcenter into Excel and then manually configure data into the correct format for ERP.

Drill design **V1**	(saved to database) →	Teamcenter **V1** CAD	(export to Excel) →	ERP **V1** CAD + Extra BOM data

Version 2 is now created

- The design data now needs to be exported out of Teamcenter and put into an ERP system which is a slow process.

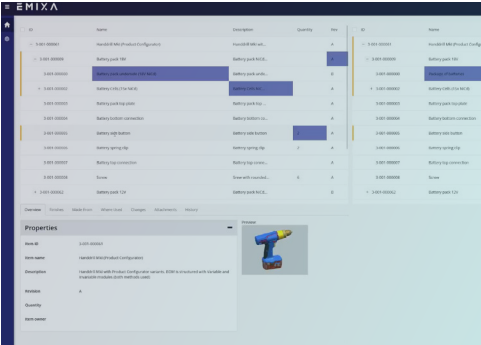| Drill design **V2**	(saved to database) →	Teamcenter **V2** CAD	(export to Excel) →	ERP **V1** CAD + Extra BOM data

Version 3 is simultaneously created

- By the time version 2 is complete, version 3 has already been created.
- **It is difficult now to trust that an ERP system is up to date with the correct information.**

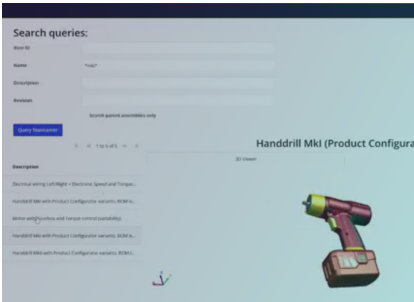| Drill design **V3**	(saved to database) →	Teamcenter **V3** CAD	(export to Excel) →	ERP **V?** CAD + Extra BOM data

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How the Mendix App can help

With Mendix's BOM solution you can:

- Take data from multiple sources
- Determine a single source of truth
- Write back and keep all systems synchronized
- Keep consistency across BOMs

The BOM Comparison solution in the Mendix App allows you to:

- See problems in design at first glance.
- Pull in the ERP data and see the highlighted differences in the version data.
- Immediately, see the health of your BOM instead of manually finding the differences.

Build the bridge between ERP and PLM

ERP- SAP
Material Data
Supplier Data
Storage data
Pricing information

Mendix
Mendix sales play
"plan for every part"

PLM Teamcenter
Bill of Material data
Program planning data

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