Bridge — a CMMS file kept in step with SAP or Maximo through their list exports

Menu: CMMS ▸ Bridge…

Part 1 — What the function does

What it does. The Bridge keeps a ReliaEn CMMS file in step with an enterprise maintenance system, SAP Plant Maintenance or Maximo, through the list exports that system already produces. You register the other system once as a source, then hand the Bridge its export files whenever you want to bring ReliaEn up to date. In the window CMMS — Bridge you

Tab	What ReliaEn does
Sources	Registers the system once: its name, its system, its mastership and its profile, the column layout of its exports (sap_pm, maximo and others)
Mapping	Add files… reads the export files and recognises each from its header row. The table shows which column fills which detail, with five samples; a detail with no column stays empty, never guessed
Preview	Preview counts, per kind of record, what would be new, changed, unchanged or refused, and stores nothing. Apply stores it
Log	One row per import
Queue	Lists what the data cannot yet support, refreshed after each import
Conflicts	Native records for which the source has a newer version, side by side; Take theirs or Keep ours decides each one

Each record keeps its source's name and its number in the source, so the next export updates the same record. With Default mastership MIRROR the source stays master and the records are read-only in ReliaEn; with NATIVE ReliaEn becomes master of what it imports. A record that a later full export no longer lists is marked retired in source, never deleted.

From what data. Excel workbooks or CSV files exported from the other system, and the open CMMS file.

When an engineer uses it. When the enterprise system stays the system of record and ReliaEn analyses its data: load the plant once, then bring ReliaEn up to date with each new set of exports.

Do not use it when

Situation	Use instead
You want to load one list of work orders once	CMMS ▸ Import Wizard… (chapter 6.9)
You want to take work orders out of ReliaEn	CMMS ▸ Export… (chapter 6.10)
ReliaEn is your only maintenance system	CMMS ▸ Assets… and CMMS ▸ Work Orders…

Part 2 — The example's input data

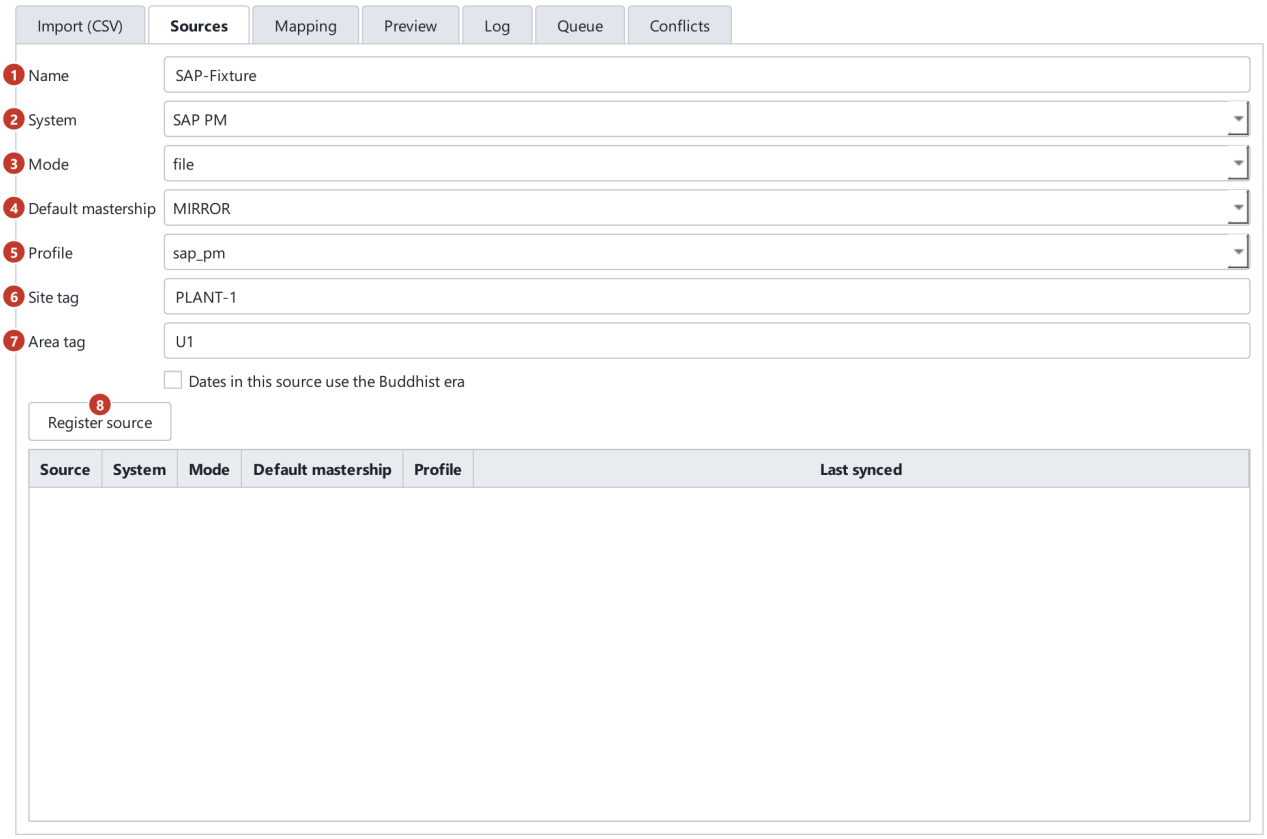
Setting. A power plant exports six lists from SAP into a new CMMS file. A month later it exports the equipment list again: three items have changed and EQ-12 has been removed in SAP.

Export file	What it holds	Rows
SAP_IH08.xlsx	Equipment	12
SAP_IW38.xlsx	Orders	40
SAP_IW28.xlsx	Notifications	24
SAP_IP24.xlsx	Maintenance plans	5
SAP_IK17.xlsx	Measurement documents	30
SAP_MB52.xlsx	Material stock	8

Sources	Entry
Name	SAP-Fixture
System	SAP PM
Mode	file
Default mastership	MIRROR
Profile	sap_pm
Site tag, Area tag	PLANT-1, U1

Folders in the worked-example zip	
6-Bridge/SAP-exports/	The six files
6-Bridge/SAP-later-export/	The later equipment list

The entries as Part 3 types them:

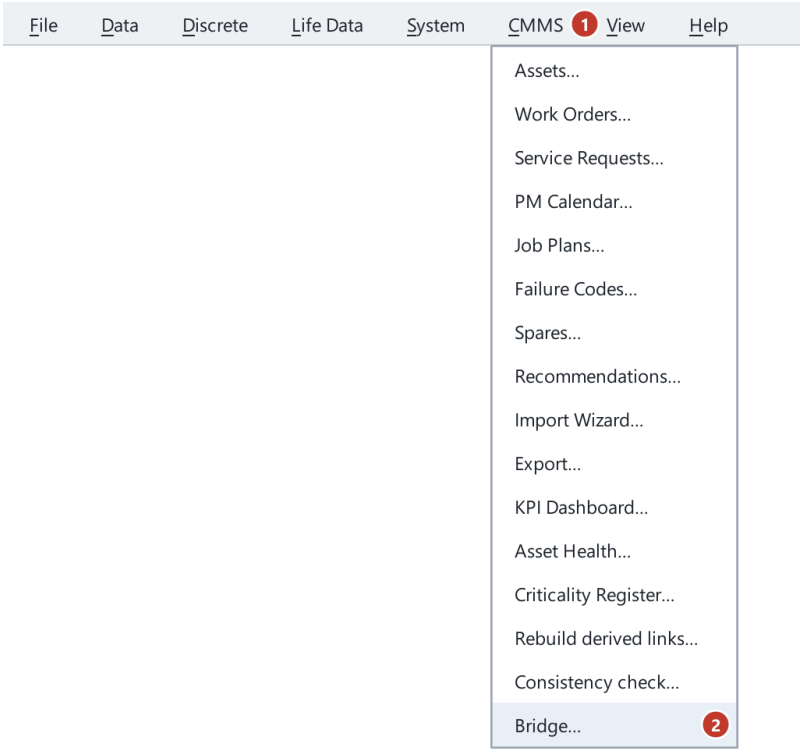


The source typed

- ① to ⑦ The seven entries of the table above.
- ⑧ Register source.

Part 3 — How to use it, step by step

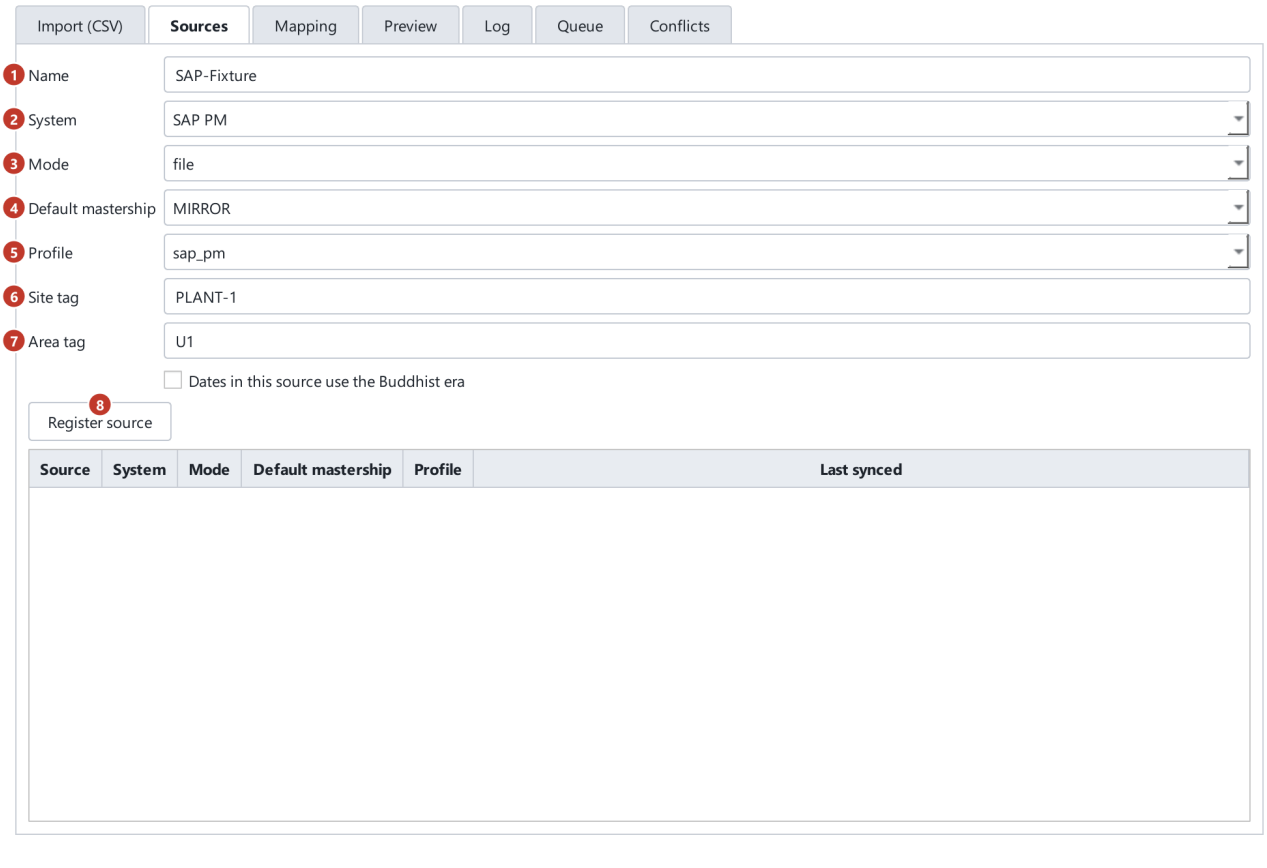
1. **Choose CMMS ▸ Bridge…** in the menu bar, and create a new file in the box Open or create a CMMS file. The window CMMS — Bridge opens on its Sources tab.



Step 1 — the menu path

- ① CMMS: the menu.
- ② Bridge…: the entry to click.

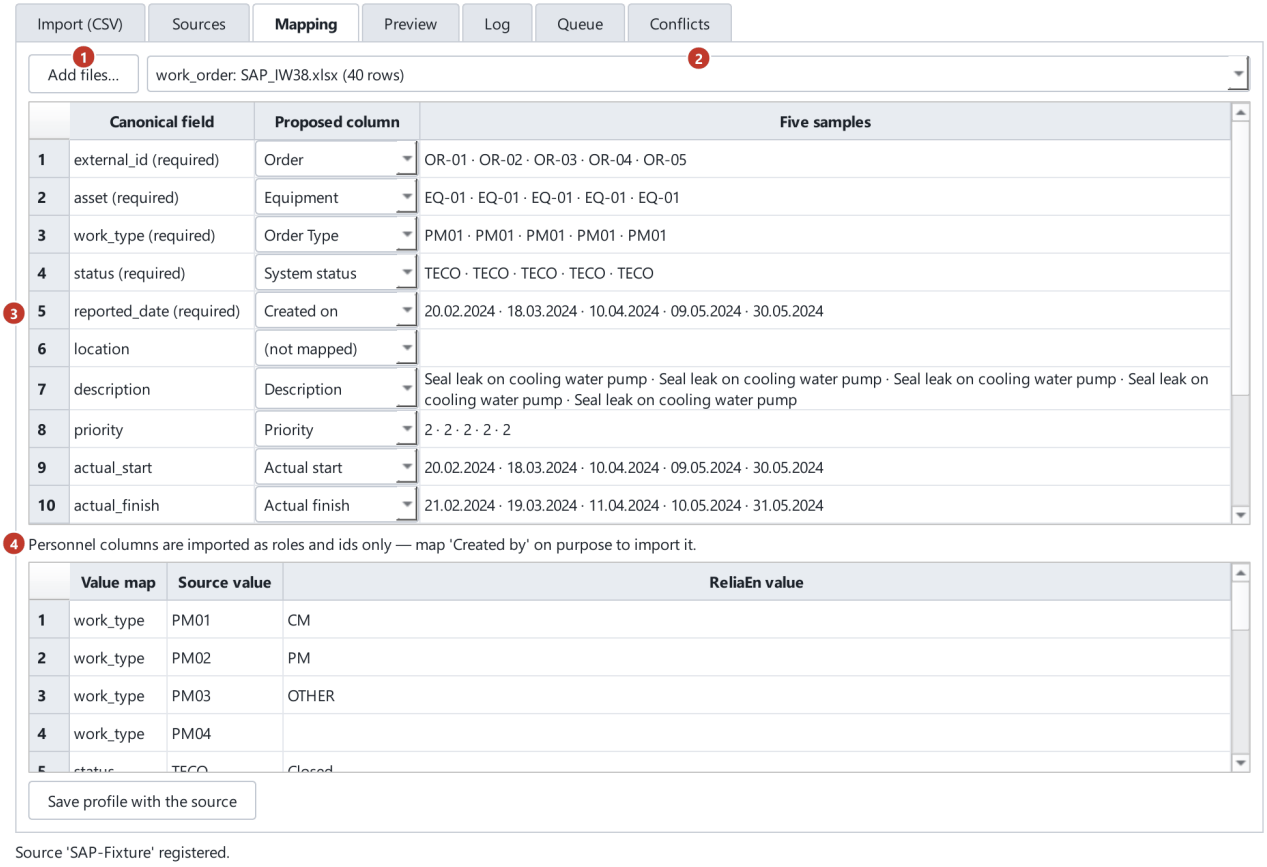
2. **Register the source**, as steps 3 to 10 do:



Steps 3 to 10 — the source typed

3. ① **In Name, type SAP-Fixture.**
4. ② **In System, choose SAP PM.**
5. ③ **In Mode, choose file.**
6. ④ **In Default mastership, choose MIRROR.**
7. ⑤ **In Profile, choose sap_pm.**
8. ⑥ **In Site tag, type PLANT-1.**
9. ⑦ **In Area tag, type U1.**
10. ⑧ **Click Register source.**

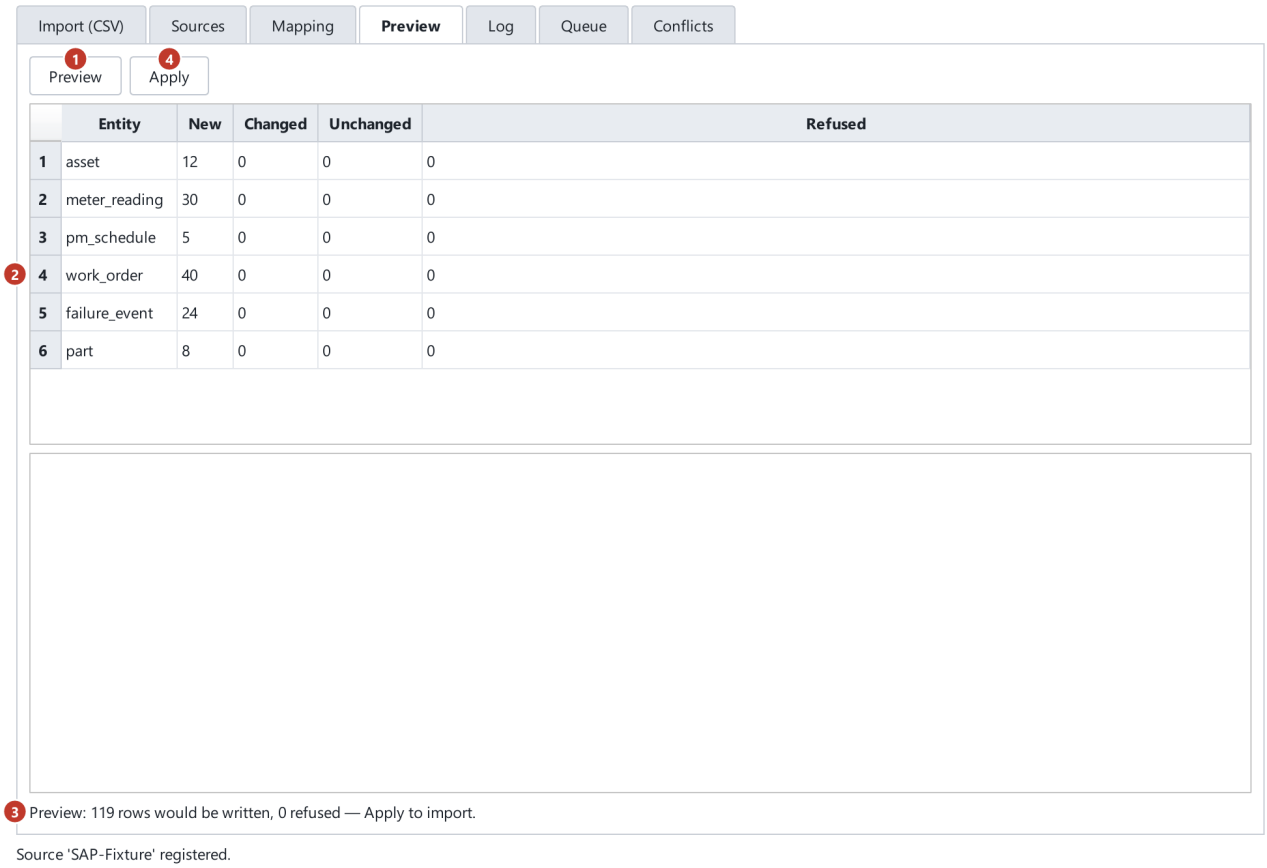
11. **Open the tab Mapping, click Add files… and choose the six files of SAP-exports. In the list, choose the order list to check its mapping:**



Step 11 — the six files added

- ① Add files….
- ② The file list.
- ③ The mapping of the file chosen.
- ④ The personnel line.

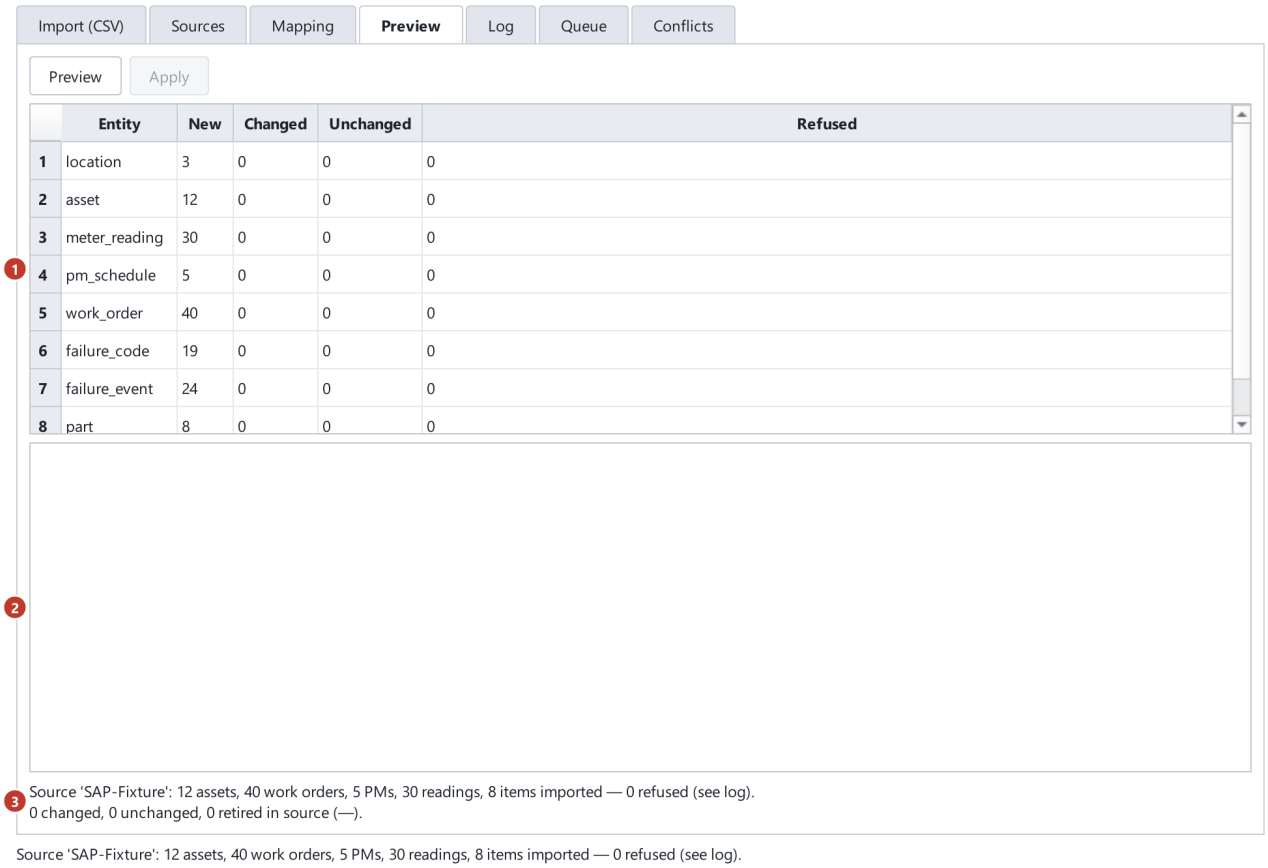
12. **Open the tab Preview and click Preview:**



Step 12 — after Preview

- ① Preview.
- ② The counts.
- ③ The total line.
- ④ Apply.

13. **Click Apply:**

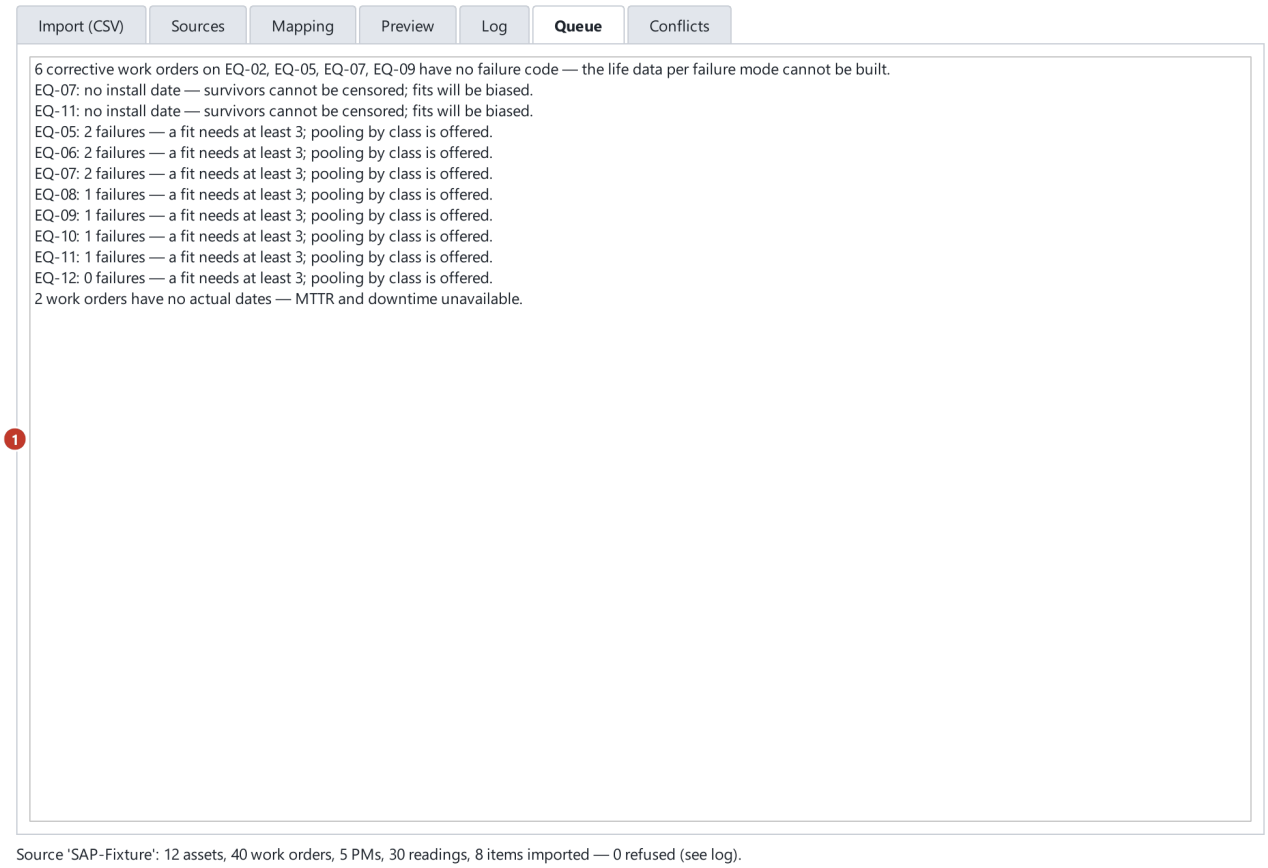


Source 'SAP-Fixture': 12 assets, 40 work orders, 5 PMs, 30 readings, 8 items imported — 0 refused (see log).

Step 13 — after Apply

- ① The counts.
- ② The list of notes and refused rows.
- ③ The result lines.

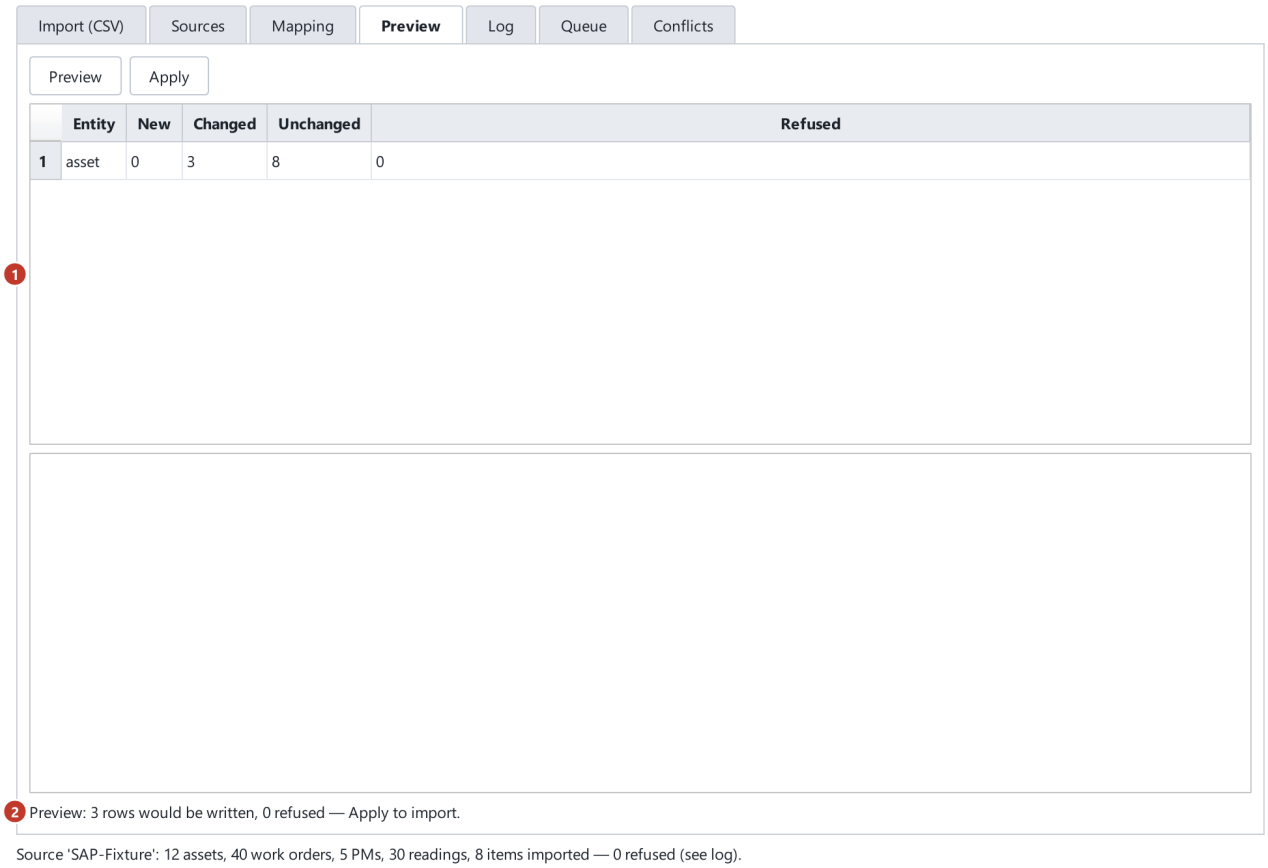
14. **Open the tab Queue:**



Step 14 — the Queue

- ① The queue's lines.

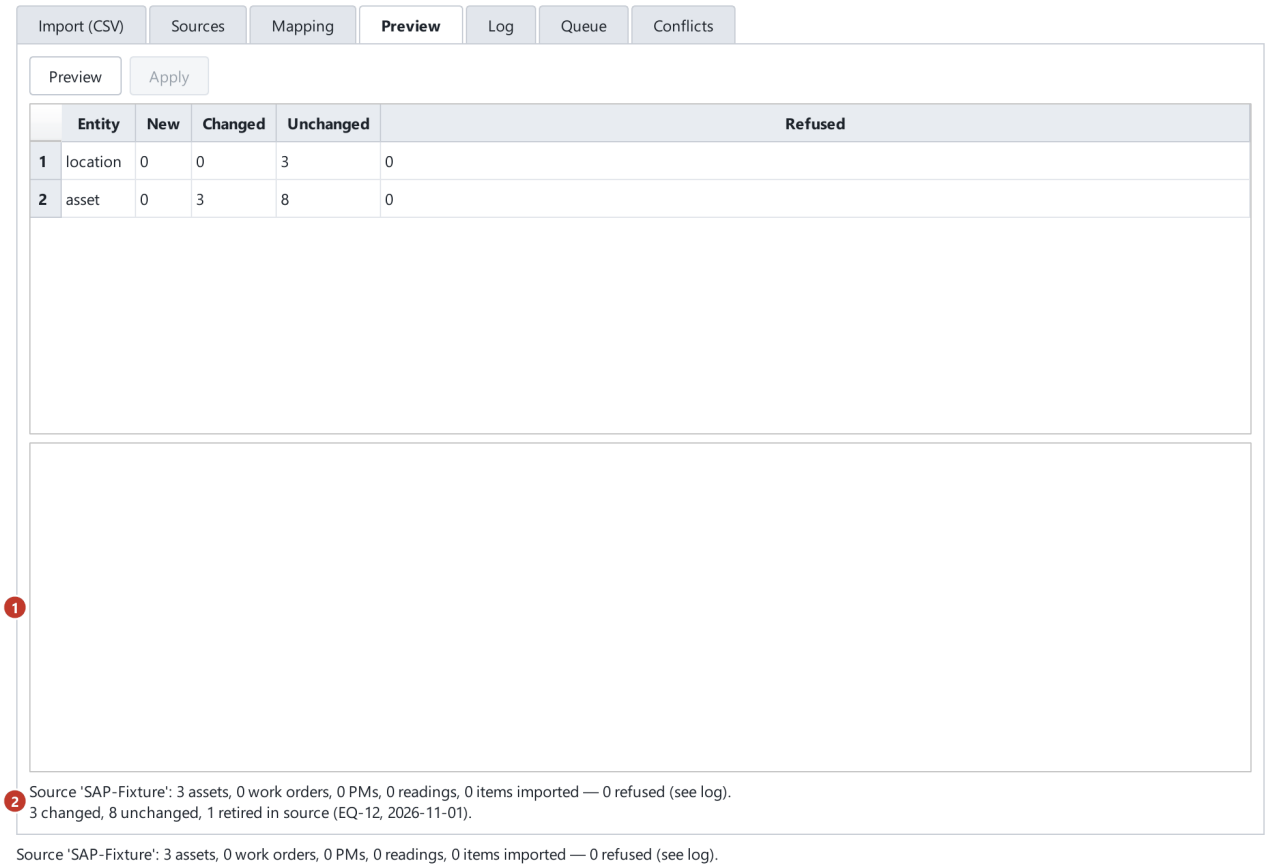
15. **A month later, on Mapping, click Add files… and choose the file of SAP-later-export, then on Preview click Preview:**



Step 15 — the later export after Preview

- ① The counts.
- ② The total line.

16. **Click Apply:**

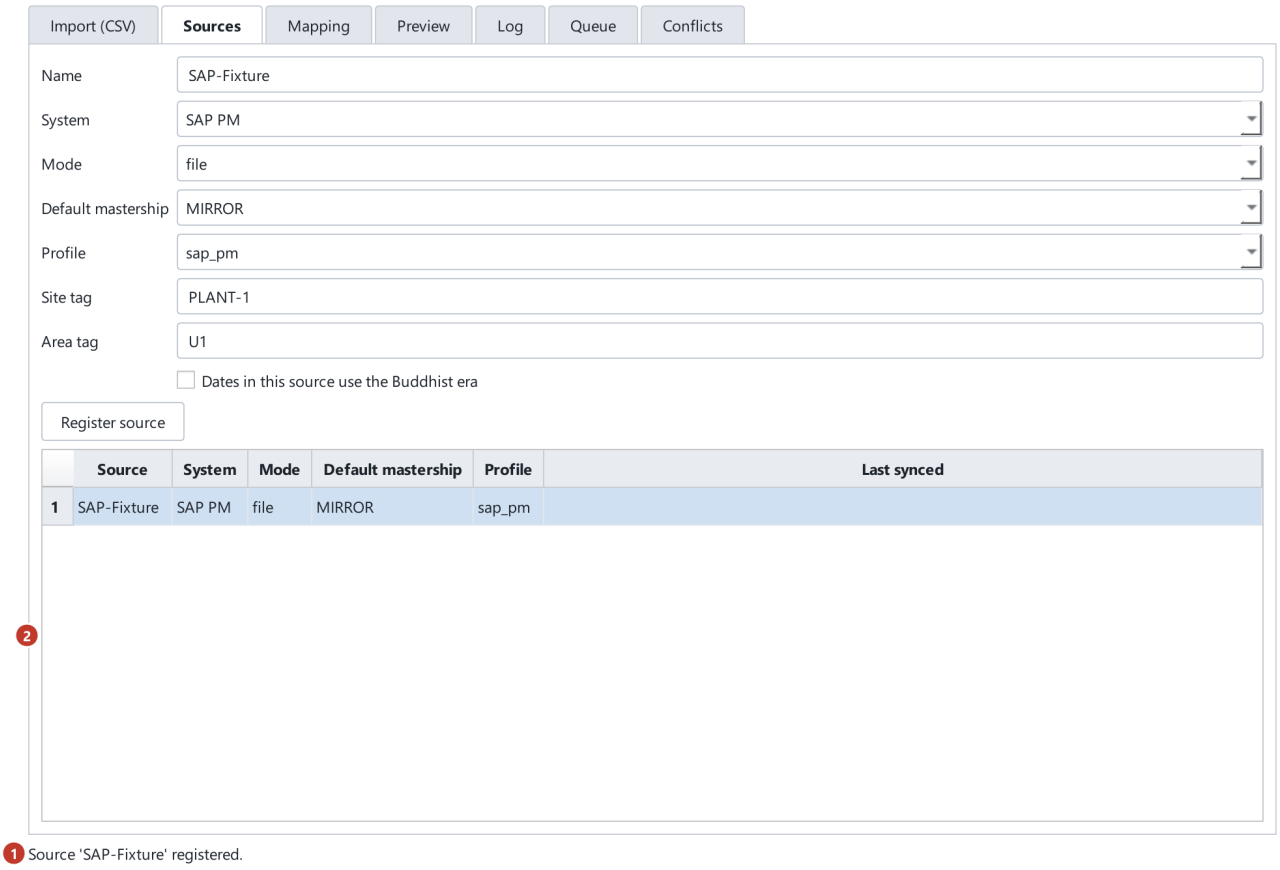


Step 16 — the later export after Apply

- ① The list of notes and refused rows.
- ② The result lines.

Part 4 — The result, picture by picture

After Register source:

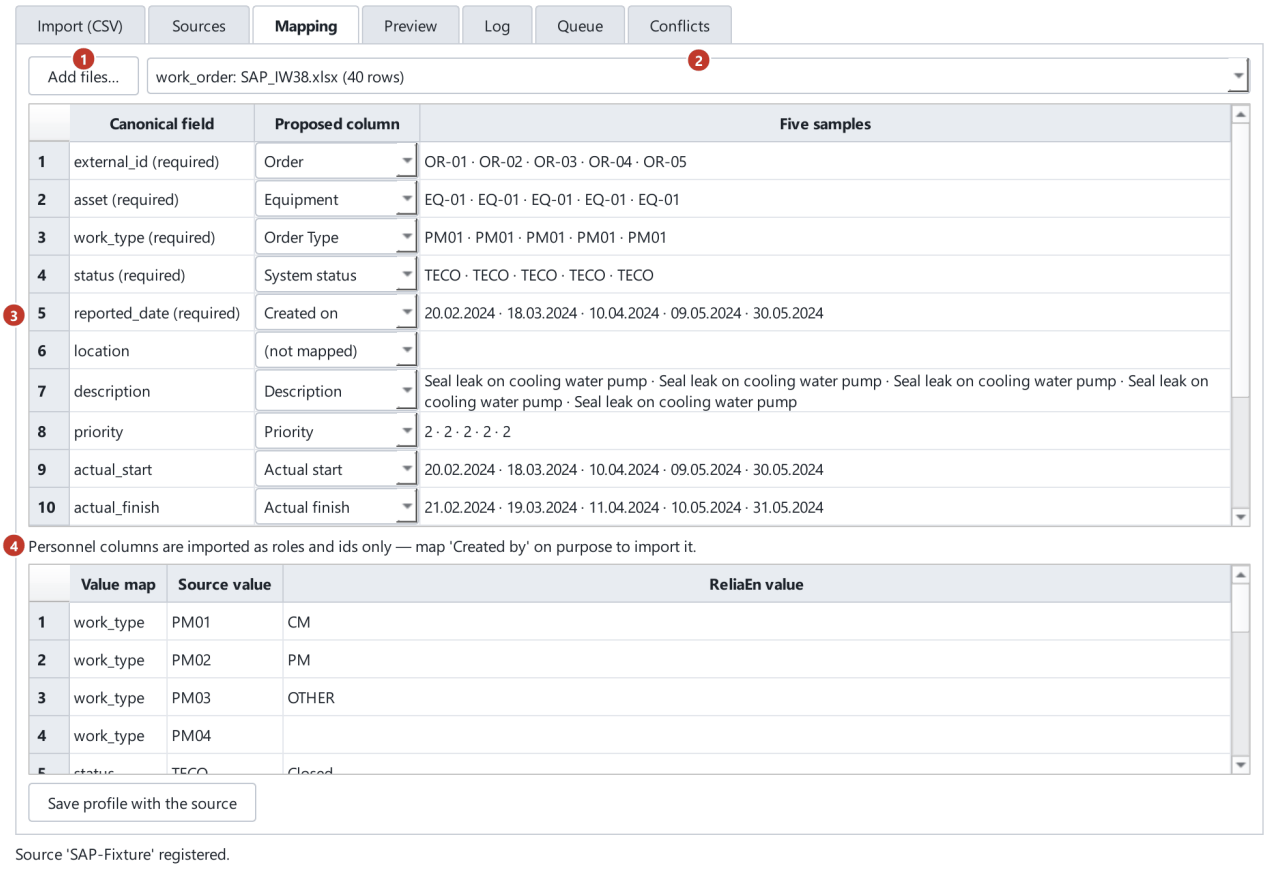


After Register source

- ① The foot line: Source 'SAP-Fixture' registered.
- ② The Sources table: SAP-Fixture, SAP PM, file, MIRROR, sap_pm, and Last synced still empty: nothing has been imported yet.

What to decide. Check Default mastership before the first import: MIRROR keeps SAP as the master of every record it sends.

The Mapping tab of step 11:

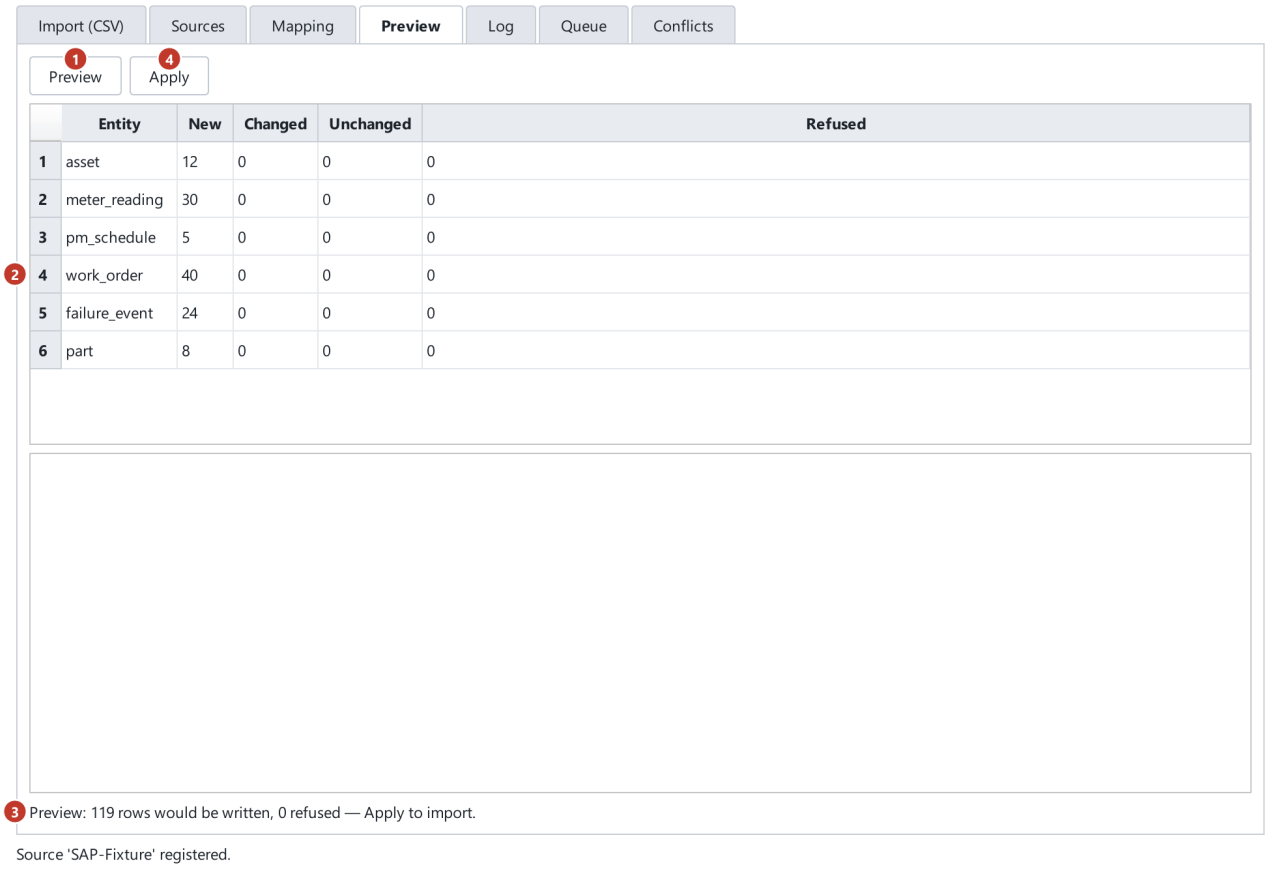


The order list's mapping

- ① Add files..., already used.
- ② The file list holds all six files, each with its kind and row count; the one shown is work_order: SAP_IW38.xlsx (40 rows).
- ③ Canonical field, Proposed column and Five samples. Every required detail has a column; location shows (not mapped) and stays empty.
- ④ Personnel columns are imported as roles and ids only — map 'Created by' on purpose to import it.

What to decide. Read the samples: they show that each detail has found the right column. Leave Created by unmapped unless the plant has decided to import people's names.

The Preview tab of step 12:

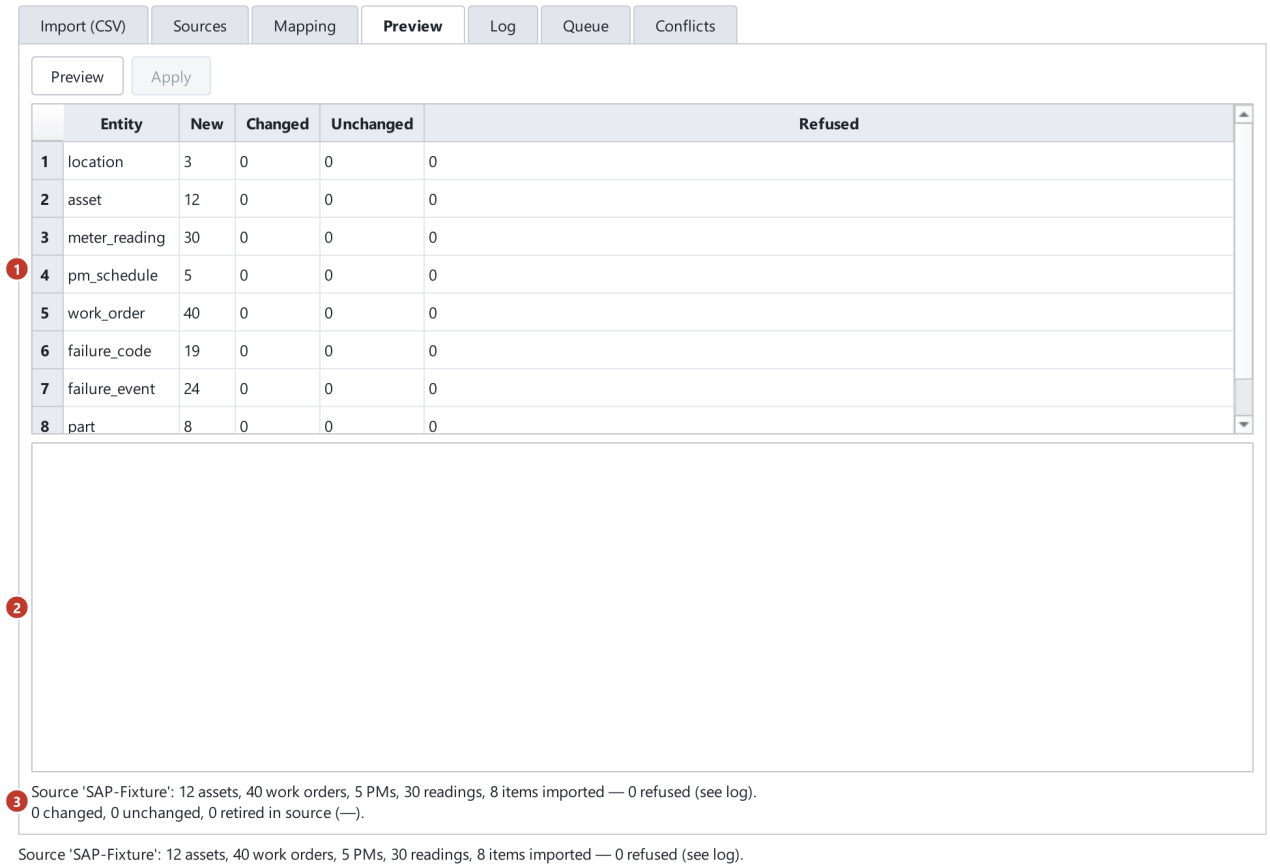


The first preview

- ① Preview, already clicked.
- ② New: 12 assets, 30 meter readings, 5 PM schedules, 40 work orders, 24 failure events, 8 parts. Refused is 0 on every row.
- ③ Preview: 119 rows would be written, 0 refused — Apply to import. Nothing is stored yet.
- ④ Apply.

What to decide. No row is refused: click Apply.

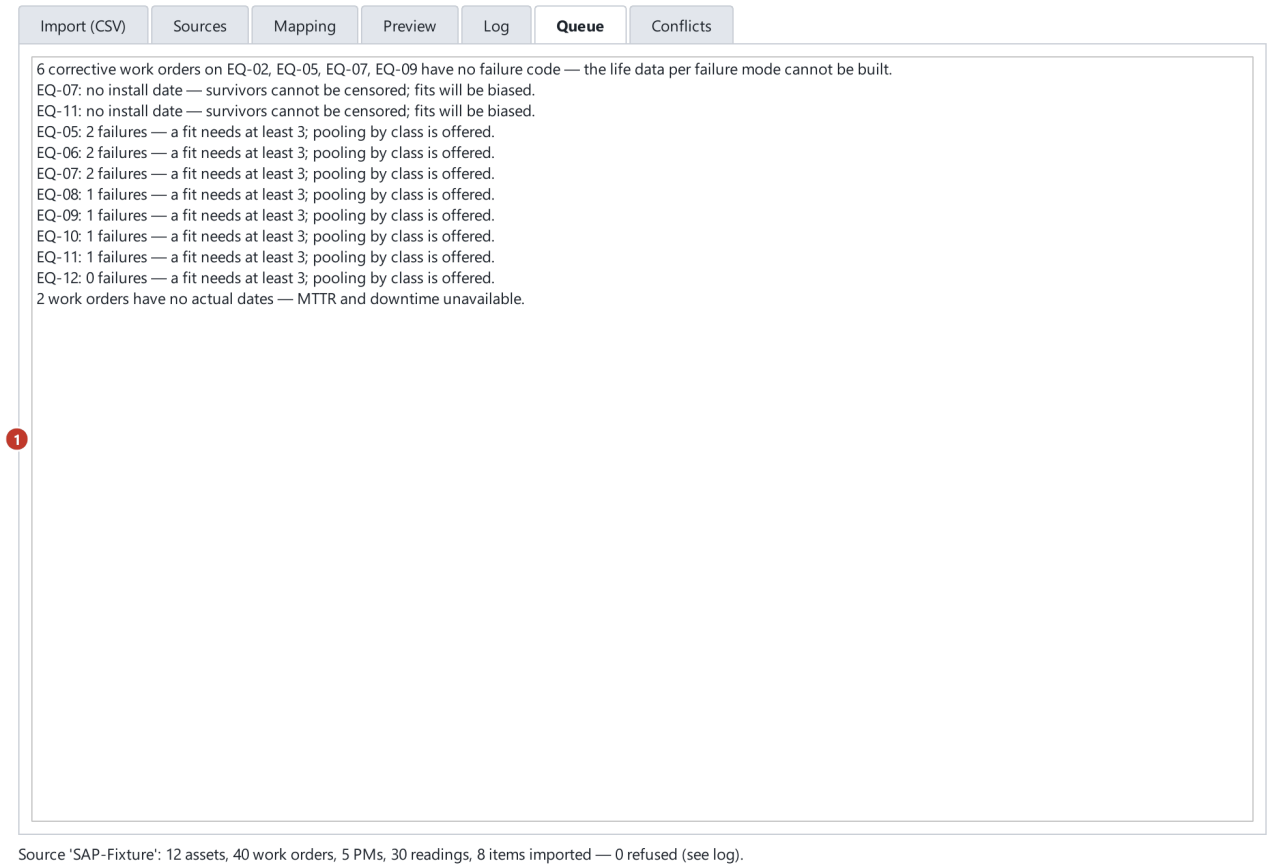
After Apply of step 13:



After Apply

- ① Two rows more than the preview: location 3 and failure_code 19, the places and the failure codes the Bridge took from the files.
- ② The list is empty: nothing to note, nothing refused.
- ③ Source 'SAP-Fixture': 12 assets, 40 work orders, 5 PMs, 30 readings, 8 items imported — 0 refused (see log). Under it, 0 changed, 0 unchanged, 0 retired in source (—). A first import has nothing to compare with.

The Queue tab of step 14:

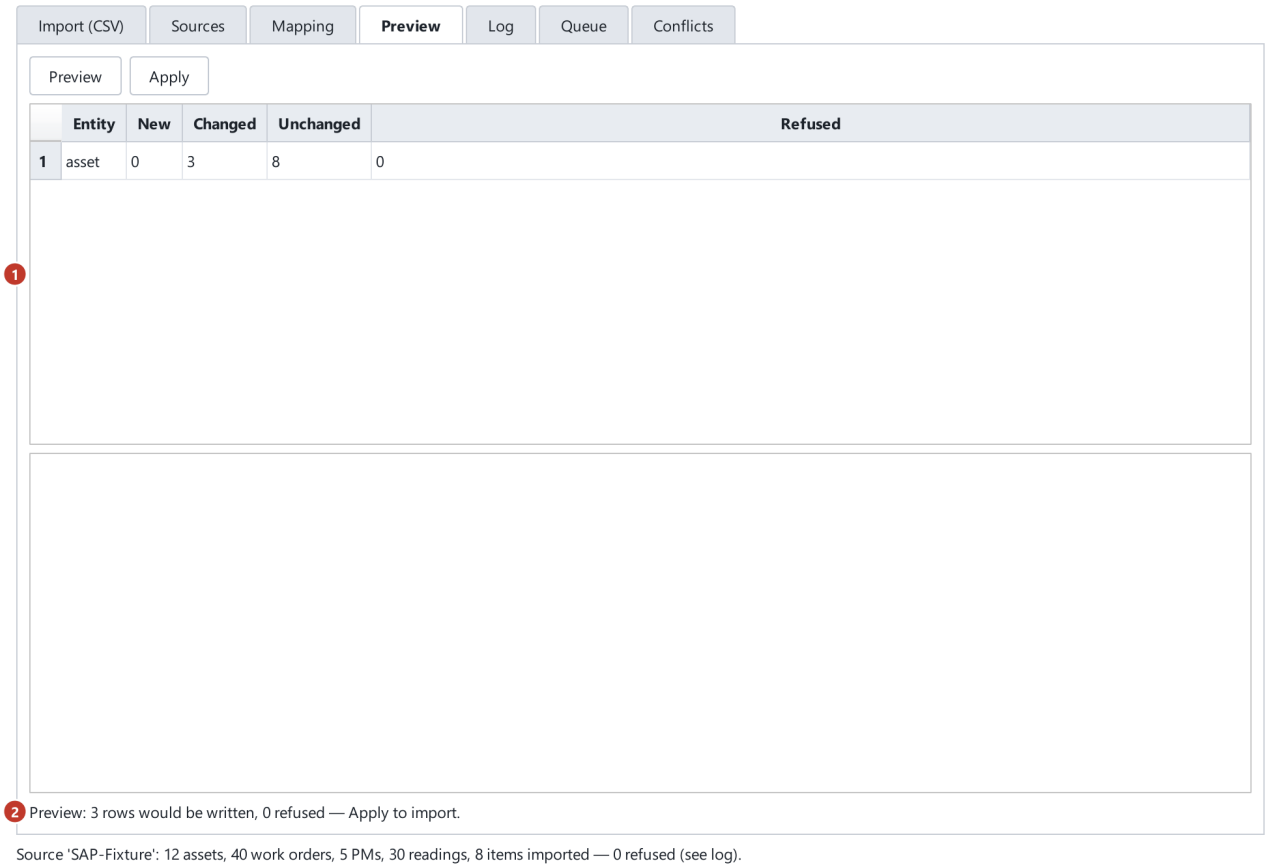


The Queue

- ① Twelve lines, for example 6 corrective work orders on EQ-02, EQ-05, EQ-07, EQ-09 have no failure code — the life data per failure mode cannot be built., EQ-07: no install date — survivors cannot be censored; fits will be biased., and EQ-05: 2 failures — a fit needs at least 3; pooling by class is offered.

What to decide. Ask the planners to give the six corrective orders a failure code and to enter the install dates of EQ-07 and EQ-11 in SAP, then export again. Until then, fit the assets with fewer than 3 failures by class.

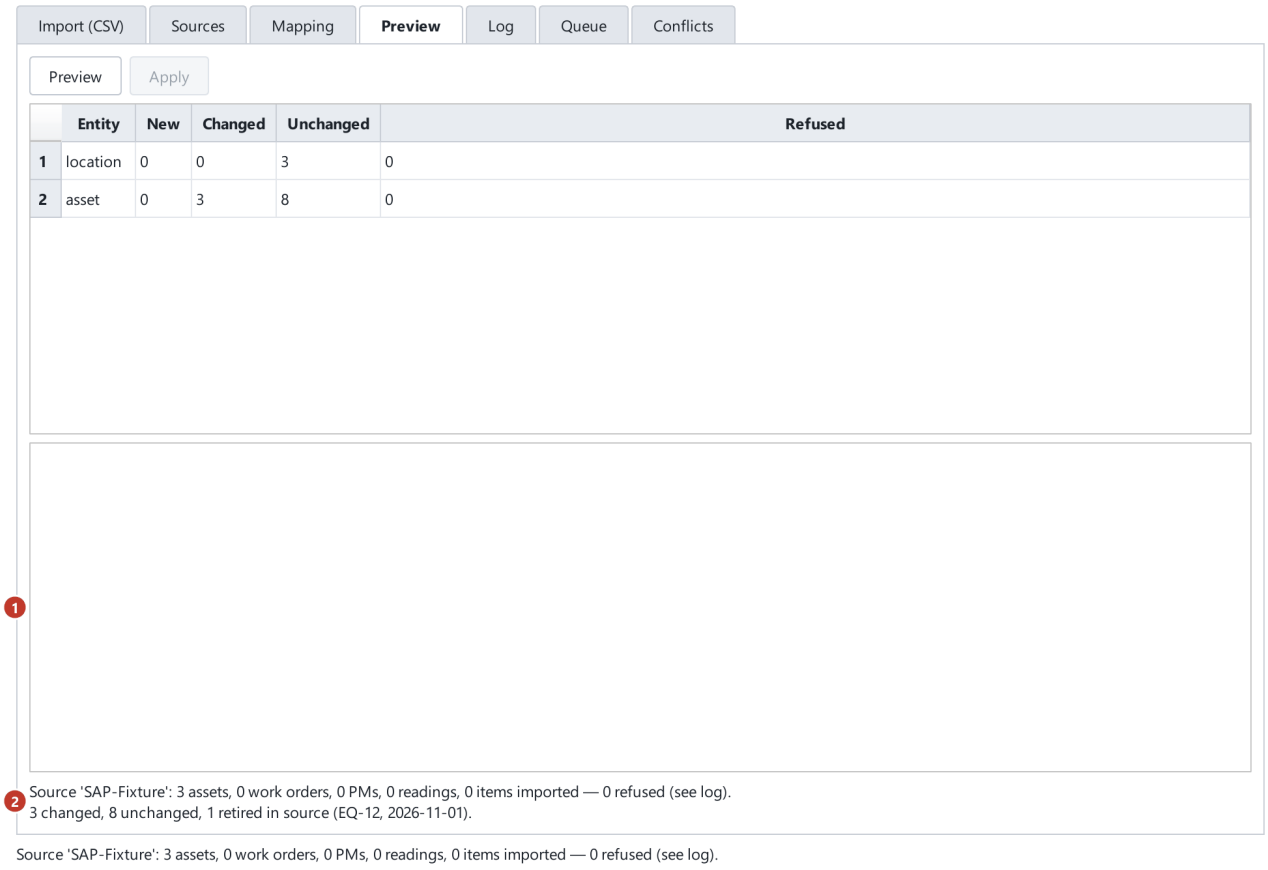
The later export, after Preview:



The later export after Preview

- ① The asset row: New 0, Changed 3, Unchanged 8, Refused 0. The file holds 11 rows, one fewer than the first.
- ② Preview: 3 rows would be written, 0 refused — Apply to import.

After Apply:



Source 'SAP-Fixture': 3 assets, 0 work orders, 0 PMs, 0 readings, 0 items imported — 0 refused (see log).

The later export after Apply

- ① The list is empty.
- ② Source 'SAP-Fixture': 3 assets, 0 work orders, 0 PMs, 0 readings, 0 items imported — 0 refused (see log). Under it, 3 changed, 8 unchanged, 1 retired in source (EQ-12, 2026-11-01). The date is the day of the import.

What to decide. Check EQ-12 in SAP before you treat it as gone: it is marked retired in source, not deleted, and its history stays in the CMMS file.

Part 5 — How to interpret the results

Read the counts before you click Apply. A refused row is named with its reason; correct it in the source and export again.

Read the Queue after the first import. Its lines say which assets cannot yet give a sound life-data fit, and why.

Expect "retired in source", not deletions. A record missing from a later full export is marked and kept.

Same version, nothing happens. A record equal to the stored one is left unchanged, so the same export a second time writes nothing.

Mirrored records are read-only. With MIRROR, change the record in the source system; the next export brings it in. A NATIVE record is never overwritten; a newer version from the source waits on the Conflicts tab.

The plant's own codes. A note ending imported as OTHER — map it under Value maps. shows an order type the profile does not know. Map it once in the table under the mapping, then Save profile with the source.