Criticality register — every asset ranked, the class rolled up, the assessments still owed

Menu: CMMS ▸ Criticality Register...

Part 1 — What the function does

What it does. This addendum to chapter 6.13 covers the window that reads the assessments together. Chapter 6.13 rates one asset at a time; CMMS ▸ Criticality Register... shows every asset of the file at once. In the window CMMS — Criticality Register you read

Part of the window	What ReliaEn shows
The counts card	How many assets the file holds, how many in each class, how many unassessed, how many reviews overdue and how many flagged. Every asset counts, sites, areas and systems included
The table	Assessed assets first, by class, then by score from high to low; then the unassessed ones by path
The roll-up conflict lines	One line for each parent rated below a child
The Missing-data queue	One line for each asset not assessed, assessed with a dimension missing, assessed on a superseded matrix, or past its review date
Export...	Writes the register to a CSV file with the table's columns
Matrix..., Method...	Open the likelihood-by-consequence matrix and the scoring method. OK saves a new version

From what data. The open CMMS file: its assessments, its asset hierarchy, its matrix and method, and the corrective work orders behind the evidence flags. Effective class is the highest class of an asset and everything beneath it.

When an engineer uses it. At a criticality review: to see the ranking, to find the assets still to assess, and to catch a rating the plant's history contradicts.

Do not use it when

Situation	Use instead
You want to rate an asset	CMMS ▸ Assets..., the group Criticality assessment (ACR) (chapter 6.13)
You want to rank machines by condition as well as criticality	CMMS ▸ Asset Health... (chapter 6.12)

Part 2 — The example's input data

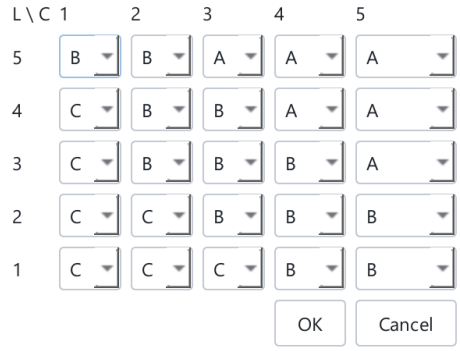
Setting. The reliability engineer REL-ENG has made the six assessments of chapter 6.13 on 19 October 2026: P-101, C-201, V-301, M-401, F-501 and area A2. Site S1 holds fifteen assets in all, and P-101 has four corrective work orders closed in the last 12 months.

Input	Value
Assessments	Chapter 6.13's Part 2 table, typed as its Part 3 does

Saved file name	criticality_register.csv
File in the worked-example zip	6-Asset-Criticality/acr_plant.reliaen

The dates in the pictures are the example's. On your computer Date is the day you assess, and Next review follows from it.

The matrix and the method as delivered, under Matrix… and Method…:



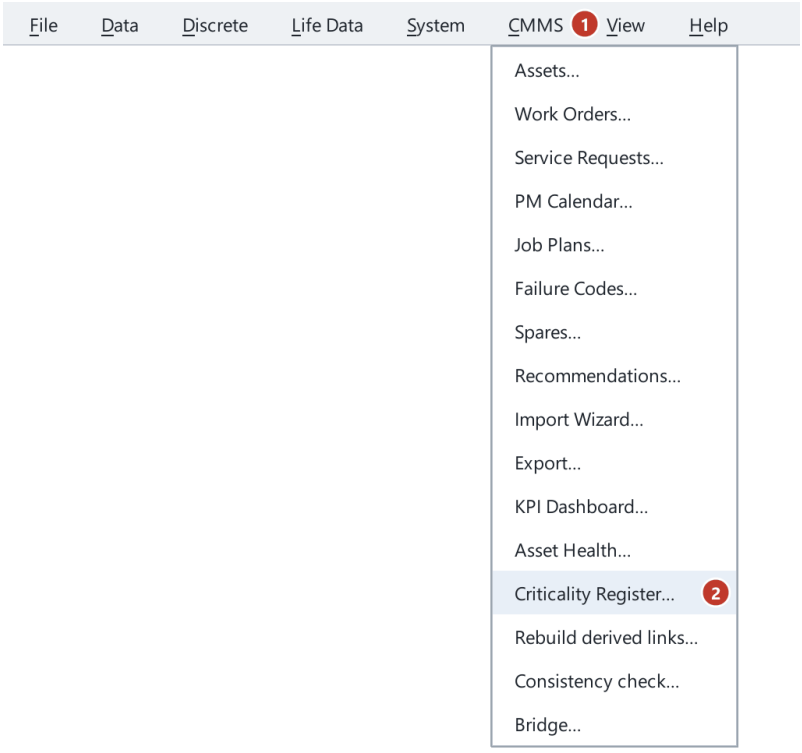
Matrix…



Method…

Part 3 — How to use it, step by step

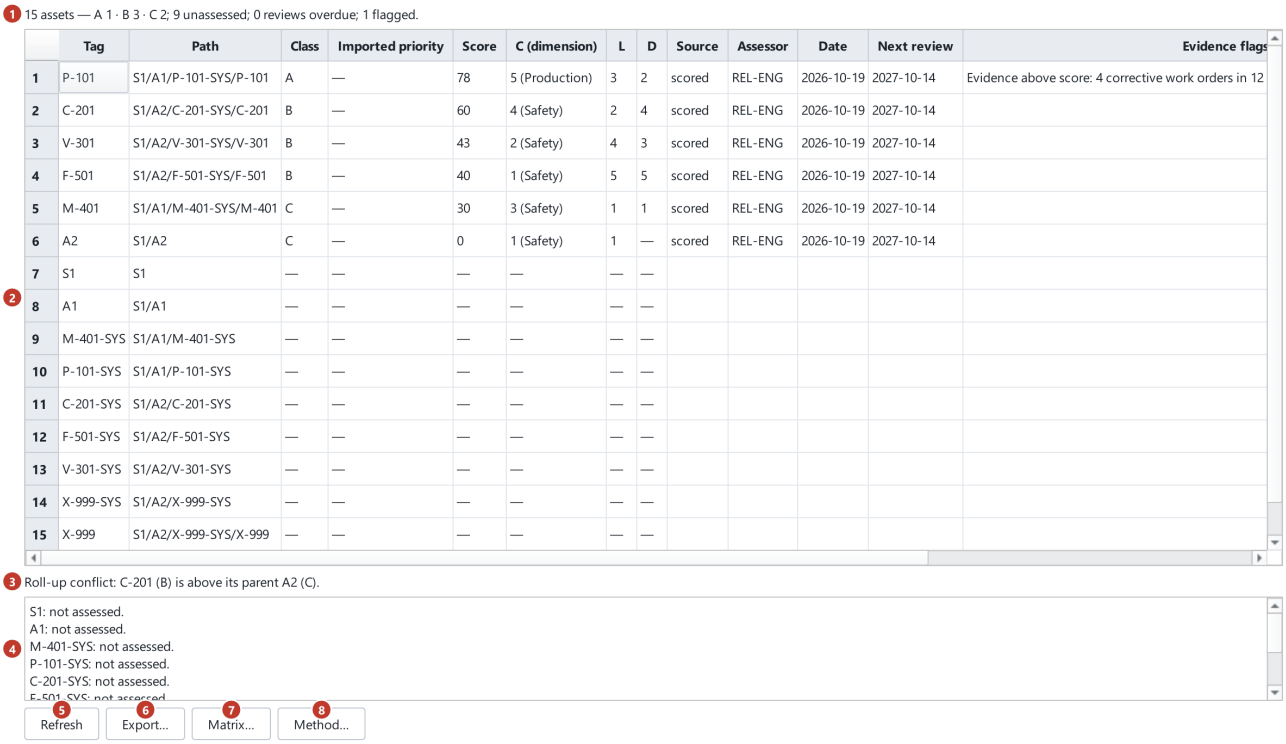
1. **With the six assessments of chapter 6.13 made, choose CMMS ▸ Criticality Register…** in the menu bar. The window CMMS — Criticality Register opens, already filled.



Step 1 — the menu path

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

2. **Read the window from the top**, as Part 4 does:

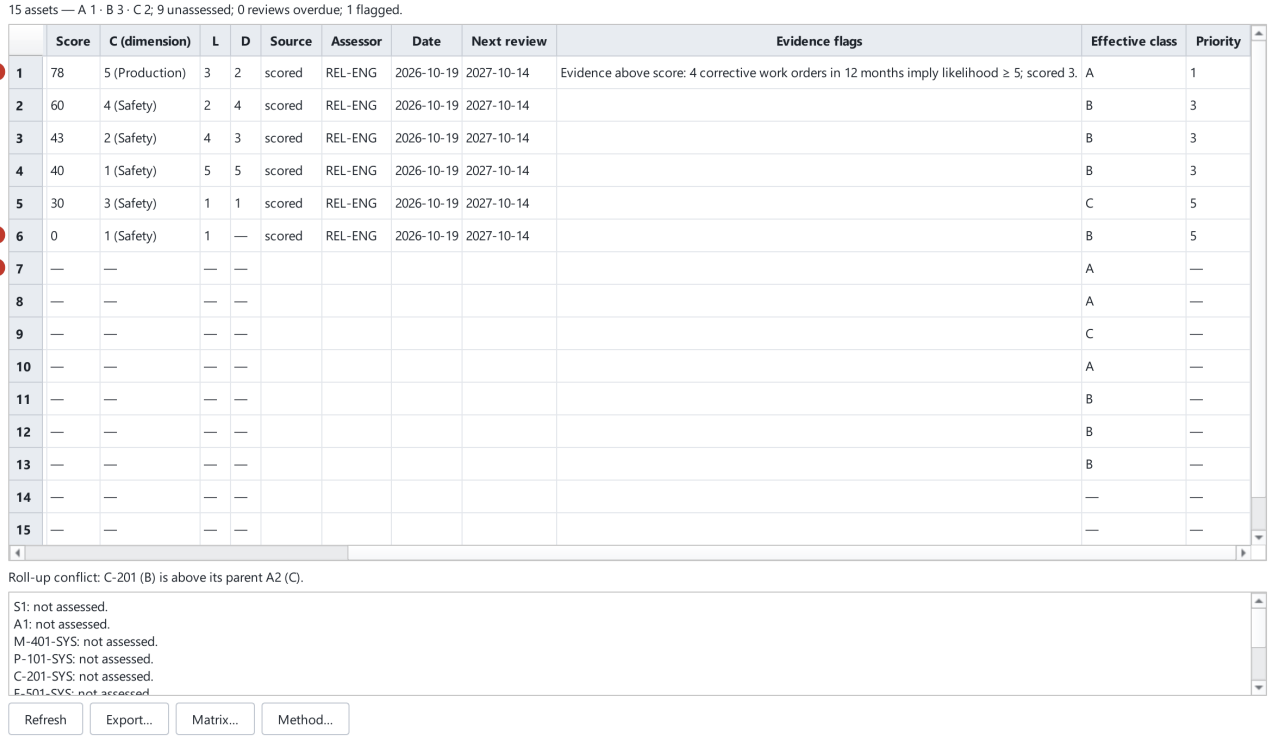


	Tag	Path	Class	Imported priority	Score	C (dimension)	L	D	Source	Assessor	Date	Next review	Evidence flags
1	P-101	S1/A1/P-101-SYS/P-101	A	—	78	5 (Production)	3	2	scored	REL-ENG	2026-10-19	2027-10-14	Evidence above score: 4 corrective work orders in 12
2	C-201	S1/A2/C-201-SYS/C-201	B	—	60	4 (Safety)	2	4	scored	REL-ENG	2026-10-19	2027-10-14	
3	V-301	S1/A2/V-301-SYS/V-301	B	—	43	2 (Safety)	4	3	scored	REL-ENG	2026-10-19	2027-10-14	
4	F-501	S1/A2/F-501-SYS/F-501	B	—	40	1 (Safety)	5	5	scored	REL-ENG	2026-10-19	2027-10-14	
5	M-401	S1/A1/M-401-SYS/M-401	C	—	30	3 (Safety)	1	1	scored	REL-ENG	2026-10-19	2027-10-14	
6	A2	S1/A2	C	—	0	1 (Safety)	1	—	scored	REL-ENG	2026-10-19	2027-10-14	
7	S1	S1	—	—	—	—	—	—					
8	A1	S1/A1	—	—	—	—	—	—					
9	M-401-SYS	S1/A1/M-401-SYS	—	—	—	—	—	—					
10	P-101-SYS	S1/A1/P-101-SYS	—	—	—	—	—	—					
11	C-201-SYS	S1/A2/C-201-SYS	—	—	—	—	—	—					
12	F-501-SYS	S1/A2/F-501-SYS	—	—	—	—	—	—					
13	V-301-SYS	S1/A2/V-301-SYS	—	—	—	—	—	—					
14	X-999-SYS	S1/A2/X-999-SYS	—	—	—	—	—	—					
15	X-999	S1/A2/X-999-SYS/X-999	—	—	—	—	—	—					

Step 2 — the register

- ① The counts card.
- ② The table.
- ③ The conflict line.
- ④ The Missing-data queue.
- ⑤ Refresh.
- ⑥ Export….
- ⑦ Matrix….
- ⑧ Method….

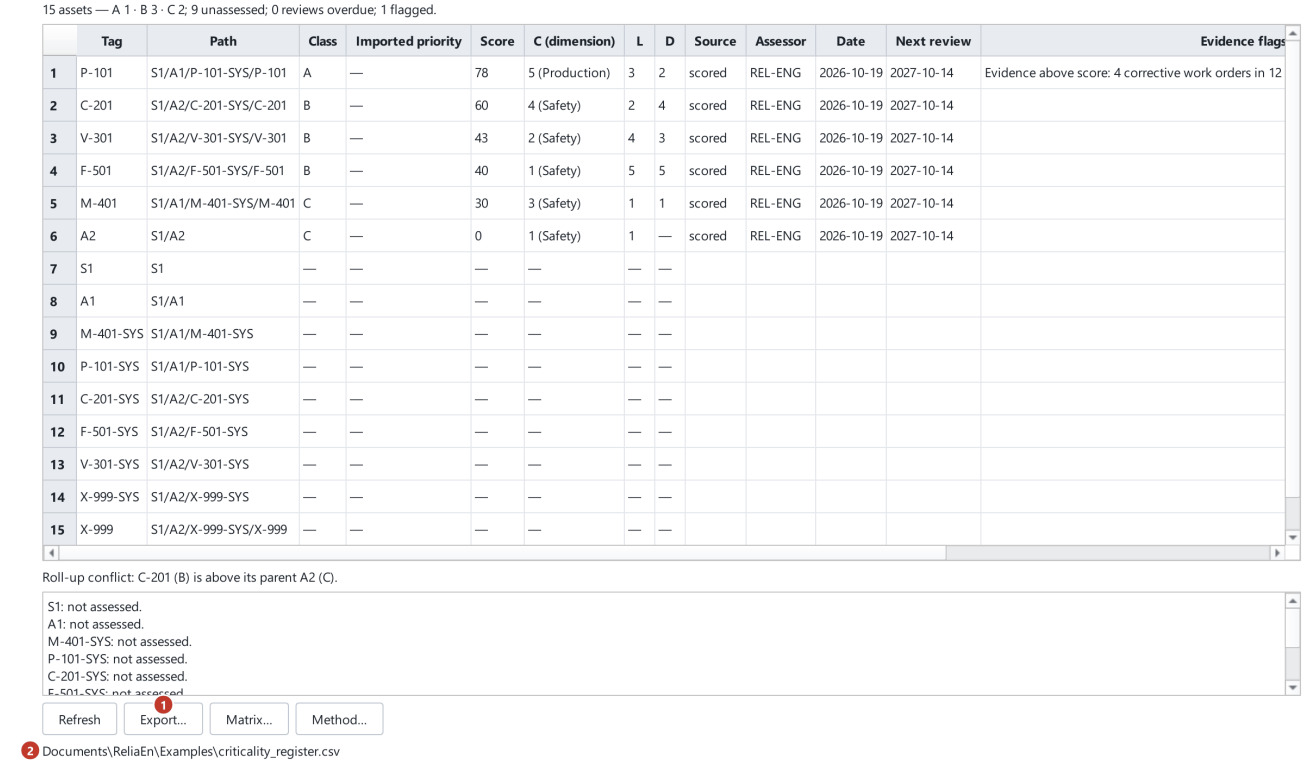
3. **Scroll the table to its last columns:**



Step 3 — the last columns

- ① Row 1, P-101.
- ② Row 6, A2.
- ③ Row 7, S1.

4. **Click Export..., keep the name criticality_register.csv and click Save:**



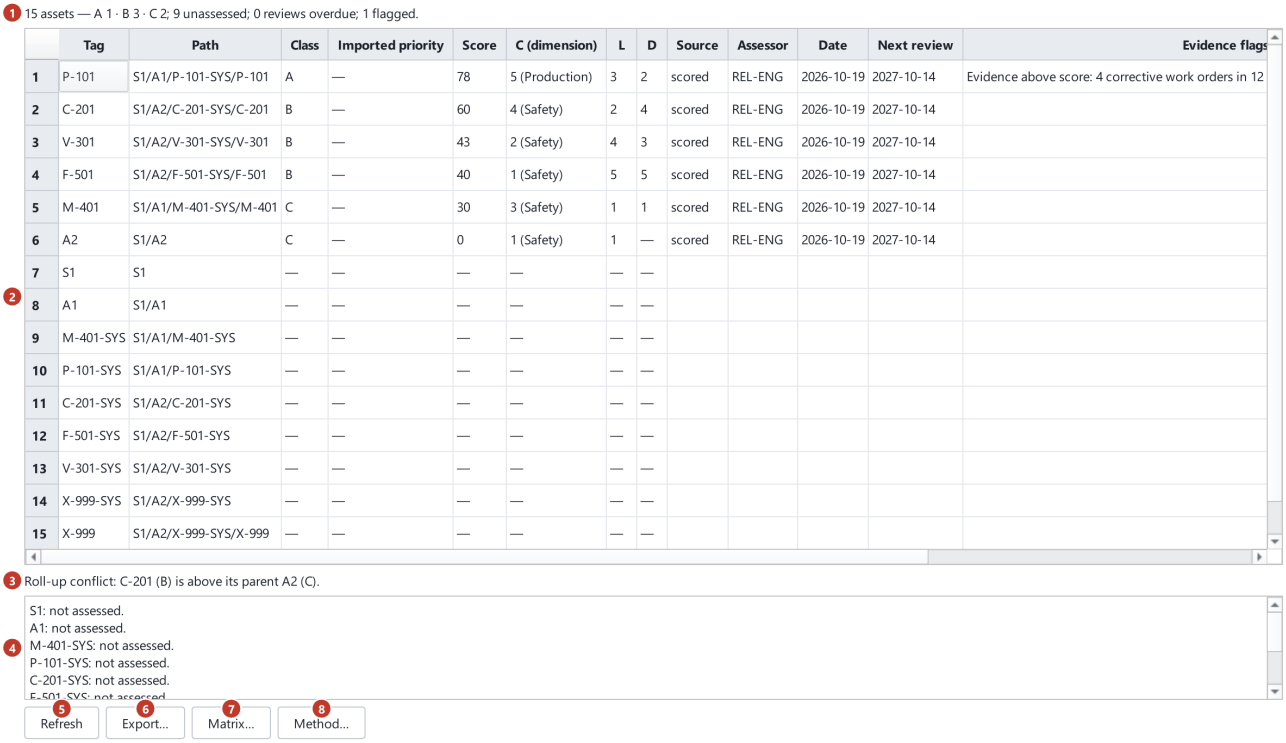
	Tag	Path	Class	Imported priority	Score	C (dimension)	L	D	Source	Assessor	Date	Next review	Evidence flags
1	P-101	S1/A1/P-101-SYS/P-101	A	—	78	5 (Production)	3	2	scored	REL-ENG	2026-10-19	2027-10-14	Evidence above score: 4 corrective work orders in 12
2	C-201	S1/A2/C-201-SYS/C-201	B	—	60	4 (Safety)	2	4	scored	REL-ENG	2026-10-19	2027-10-14	
3	V-301	S1/A2/V-301-SYS/V-301	B	—	43	2 (Safety)	4	3	scored	REL-ENG	2026-10-19	2027-10-14	
4	F-501	S1/A2/F-501-SYS/F-501	B	—	40	1 (Safety)	5	5	scored	REL-ENG	2026-10-19	2027-10-14	
5	M-401	S1/A1/M-401-SYS/M-401	C	—	30	3 (Safety)	1	1	scored	REL-ENG	2026-10-19	2027-10-14	
6	A2	S1/A2	C	—	0	1 (Safety)	1	—	scored	REL-ENG	2026-10-19	2027-10-14	
7	S1	S1	—	—	—	—	—	—					
8	A1	S1/A1	—	—	—	—	—	—					
9	M-401-SYS	S1/A1/M-401-SYS	—	—	—	—	—	—					
10	P-101-SYS	S1/A1/P-101-SYS	—	—	—	—	—	—					
11	C-201-SYS	S1/A2/C-201-SYS	—	—	—	—	—	—					
12	F-501-SYS	S1/A2/F-501-SYS	—	—	—	—	—	—					
13	V-301-SYS	S1/A2/V-301-SYS	—	—	—	—	—	—					
14	X-999-SYS	S1/A2/X-999-SYS	—	—	—	—	—	—					
15	X-999	S1/A2/X-999-SYS/X-999	—	—	—	—	—	—					

Step 4 — after Export...

- ① Export....
- ② The line naming the file.

Part 4 — The result, picture by picture

The register:

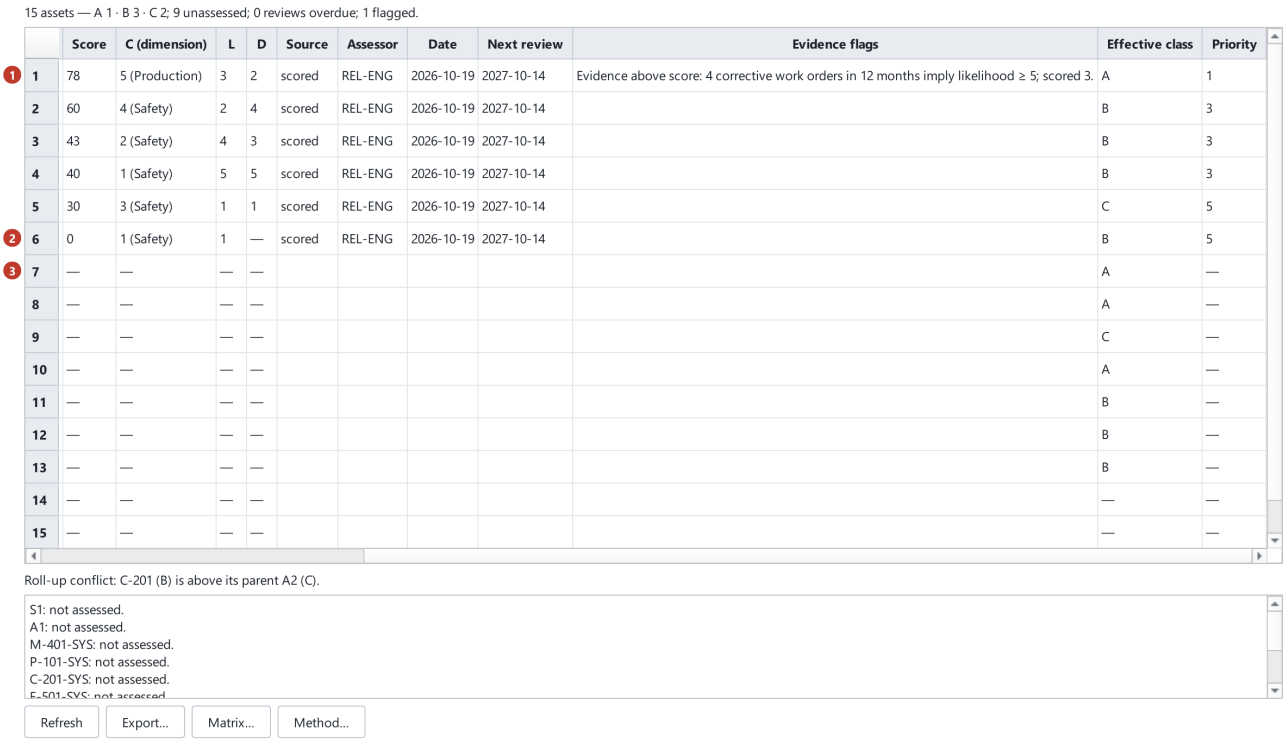


The register

- ① The counts card: 15 assets — A 1 · B 3 · C 2; 9 unassessed; 0 reviews overdue; 1 flagged. One A, three B and two C assessed, nine not: S1, A1, the six systems and X-999.
- ② The table, by class then score: P-101 (A, 78), C-201 (B, 60), V-301 (B, 43), F-501 (B, 40), M-401 (C, 30), A2 (C, 0), then the nine unassessed by path. Next review is 2027-10-14, twelve periods of 30 days after 2026-10-19.
- ③ The conflict line: Roll-up conflict: C-201 (B) is above its parent A2 (C). Area A2 is rated C, yet it holds a class-B compressor.
- ④ The Missing-data queue: nine lines, from S1: not assessed. to X-999: not assessed. The window shows the first of them; the box scrolls.
- ⑤ Refresh reads the file again.
- ⑥ Export... is step 4.
- ⑦ Matrix... and ⑧ Method... open the two windows of Part 2.

What to decide. Assess area A2 again: its own rating is out of date. Then work through the nine queue lines.

The table's last columns:

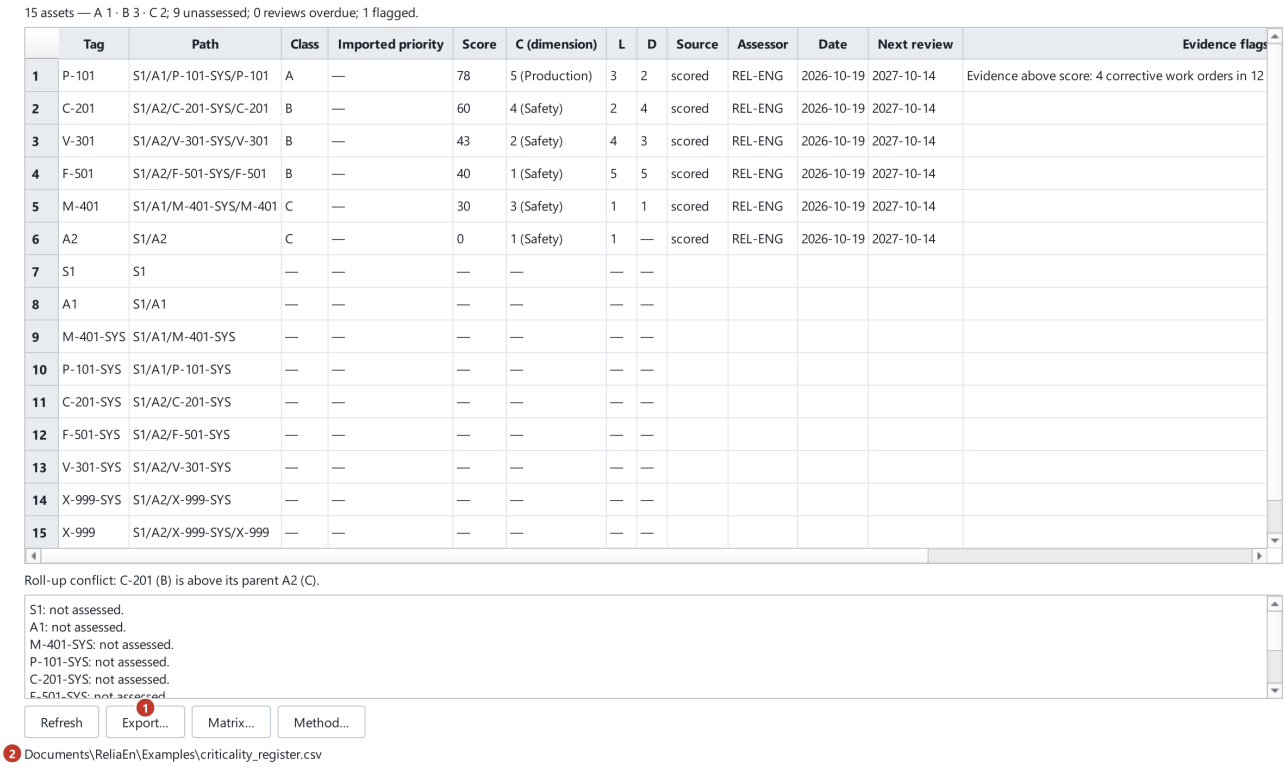


The last columns

- ① Row 1, P-101: Evidence flags reads Evidence above score: 4 corrective work orders in 12 months imply likelihood ≥ 5; scored 3. Effective class A, Priority 1. The flag changes nothing by itself.
- ② Row 6, A2: Effective class B, though its own Class is C: C-201 beneath it is B.
- ③ Row 7, S1: not assessed, yet Effective class A, the highest class beneath it.

What to decide. Assess P-101 again with a likelihood that matches its history. ReliaEn leaves that decision to the engineer.

After Export...:



	Tag	Path	Class	Imported priority	Score	C (dimension)	L	D	Source	Assessor	Date	Next review	Evidence flags
1	P-101	S1/A1/P-101-SYS/P-101	A	—	78	5 (Production)	3	2	scored	REL-ENG	2026-10-19	2027-10-14	Evidence above score: 4 corrective work orders in 12
2	C-201	S1/A2/C-201-SYS/C-201	B	—	60	4 (Safety)	2	4	scored	REL-ENG	2026-10-19	2027-10-14	
3	V-301	S1/A2/V-301-SYS/V-301	B	—	43	2 (Safety)	4	3	scored	REL-ENG	2026-10-19	2027-10-14	
4	F-501	S1/A2/F-501-SYS/F-501	B	—	40	1 (Safety)	5	5	scored	REL-ENG	2026-10-19	2027-10-14	
5	M-401	S1/A1/M-401-SYS/M-401	C	—	30	3 (Safety)	1	1	scored	REL-ENG	2026-10-19	2027-10-14	
6	A2	S1/A2	C	—	0	1 (Safety)	1	—	scored	REL-ENG	2026-10-19	2027-10-14	
7	S1	S1	—	—	—	—	—	—					
8	A1	S1/A1	—	—	—	—	—	—					
9	M-401-SYS	S1/A1/M-401-SYS	—	—	—	—	—	—					
10	P-101-SYS	S1/A1/P-101-SYS	—	—	—	—	—	—					
11	C-201-SYS	S1/A2/C-201-SYS	—	—	—	—	—	—					
12	F-501-SYS	S1/A2/F-501-SYS	—	—	—	—	—	—					
13	V-301-SYS	S1/A2/V-301-SYS	—	—	—	—	—	—					
14	X-999-SYS	S1/A2/X-999-SYS	—	—	—	—	—	—					
15	X-999	S1/A2/X-999-SYS/X-999	—	—	—	—	—	—					

After Export...

- ① Export....
- ② The line under the buttons names the file written. It holds a header row and the fifteen rows, in the table's columns.

Part 5 — How to interpret the results

Class and Effective class are different. Class is the asset's own assessment. Effective class is the highest class of the asset and everything beneath it, so a parent with no assessment can still be A.

A roll-up conflict is a prompt, not an error. It says a parent is rated below a child. Assess the parent again, or check the child.

An evidence flag is a question. The work-order history points above the scored likelihood. The score does not change until the engineer assesses again.

The queue is the to-do list. It clears as assets are assessed; a past review date brings an asset back.

Matrix... and Method... save new versions. An asset classed under an older matrix shows in the queue and in Evidence flags as pending re-assessment. Change them only as a decision for the whole plant.

Priority feeds the work orders. The asset's priority here joins each order's own priority in the column Calc. priority of CMMS ▸ Work Orders... (chapter 6.2).