



# Capability Adviser.

The number one assessment tool.

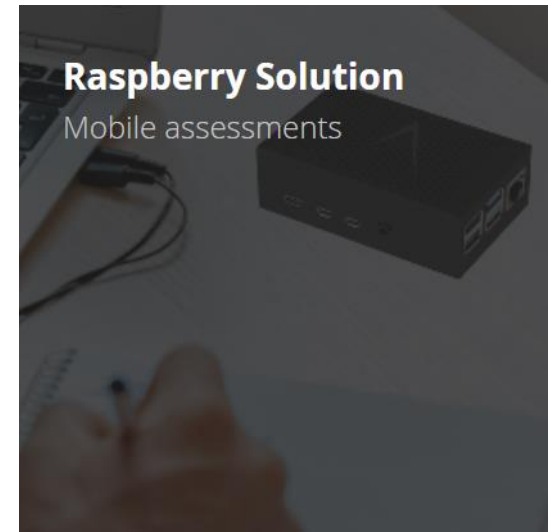
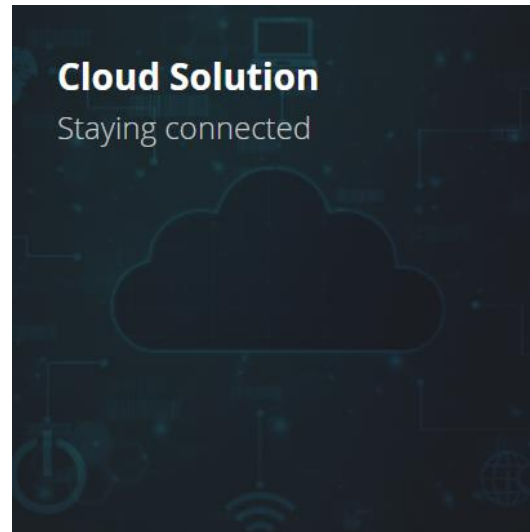
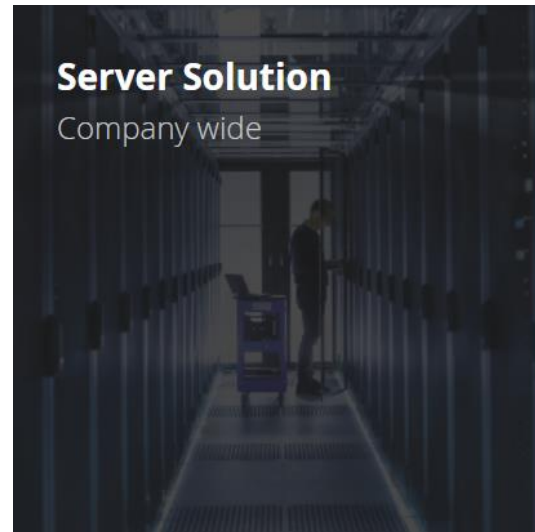
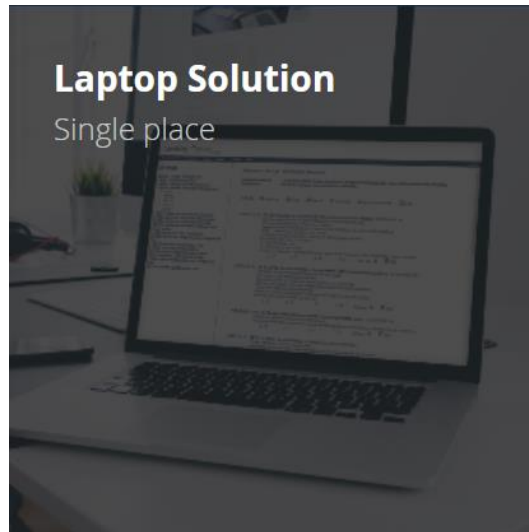


# **web-based assessment tool**

**independent of  
operating systems**

**offline or online**

**scalability for both single  
assessors or large companies**

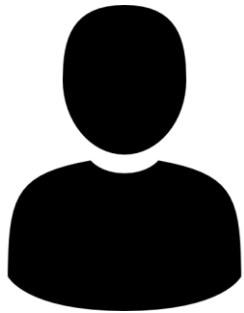


Multiple solutions used by BOSCH because:

**CapAdv just works, whether on the Server or locally on the Laptop (without internet connection).** This allows us to assess suppliers on site without relying on them to allow an outside connection. And the synchronization afterwards is straight forward and easy.

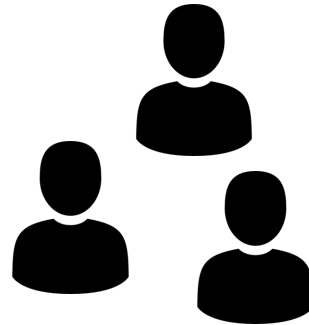
# TEAM ROLES

## Assessor



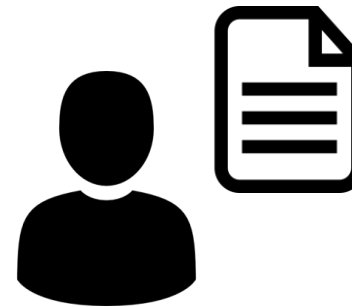
- ✓ Can perform (team) assessments and generate reports
- ✓ Has only access to assessments where he/she is an assessor

## Organisation



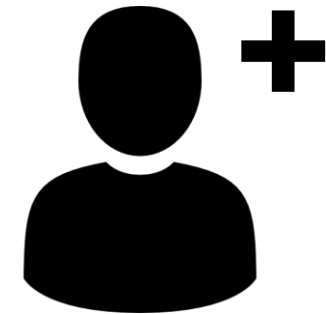
- ✓ Creates and edits assessments
- ✓ Creates and assigns assessors
- ✓ Tailors domains

## Content Provider



- ✓ Adds and imports new process assessment models
- ✓ Edits existing process assessment models

## Administrator



- ✓ Create new organization (business unit) accounts
- ✓ Generates benchmarking data

# RATINGS ON PRACTICE LEVEL

The average algorithm is attribute calculation and BP/GP are rated.

## Practice rating

Aggregated attribute rating can be overruled



## Comments

Comments can be added to ratings

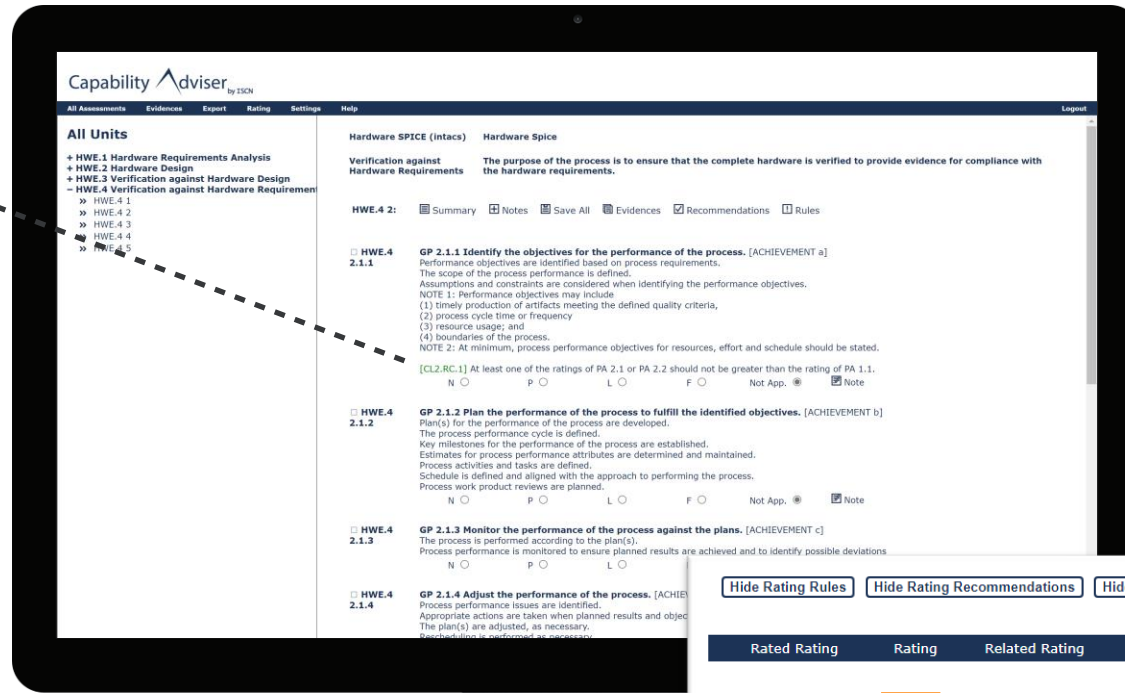


# GUIDELINES FOR AUTOMOTIVE SPICE 3.1/4.0

A unique function to check all consistency rules and recommendations.

## Rules/Recommendations

Show/hide recommendations/rules



## Consistency check

Filter for recommendations and/or rules in the consistency check

Hide Rating Rules   Hide Rating Recommendations   Hide Covered Violations

Rated Rating	Rating	Related Rating	Instance	Rating	Rating Consistency	Covered
SWE.2 2.2.4	P	SWE.2.BP8	1	N	[CL2.RC.18] The rating of the indicator GP 2.2.4 should be in line with the rating of the indicator of the corresponding process for ensuring consistency of work products (SYS.2.BP7, SYS.3.BP7, SYS.4.BP8, SYS.5.BP6, SWE.1.BP7, SWE.2.BP8, SWE.3.BP6, SWE.4.BP6, SWE.5.BP8, SWE.6.BP6, SUP.8.BP8).	<input checked="" type="checkbox"/>
SWE.2 2.2.1	N	SWE.2 2.2.4	1	P	[CL2.RL.41] If the indicator for defining requirements for the work products (GP 2.2.1) is downrated due to non-appropriate review and approval criteria, the indicator GP 2.2.4 shall be downrated.	<input checked="" type="checkbox"/>
SWE.2 2.2.4	P	SWE.2.BP8	1	N	[CL2.RC.18] The rating of the indicator GP 2.2.4 should be in line with the rating of the indicator of the corresponding process for ensuring consistency of work products (SYS.2.BP7, SYS.3.BP7, SYS.4.BP8, SYS.5.BP6, SWE.1.BP7, SWE.2.BP8, SWE.3.BP6, SWE.4.BP6, SWE.5.BP8, SWE.6.BP6, SUP.8.BP8).	<input type="checkbox"/>

## Violated rules

Shows which rules have been violated

# ASSESSMENT COLLABORATION

All assessors work on the same assessment and can see each other's comments and ratings.

Fast preparation of  
assessment reports  
(all comments/ratings  
in one place)



Fast consolidation  
of results

# AUTOMOTIVE SPICE FOR CYBERSECURITY

The extended cybersecurity assessment model is available.

Cybersecurity processes



Cybersecurity rules

Rules and recommendations related to cybersecurity



Switch to show cybersecurity rules and recommendations

Different ratings depending on the scope for the same practice

# FUNCTIONAL SAFETY & AUTOMOTIVE SPICE

A unique integrated Automotive & Safety SPICE assessment approach.



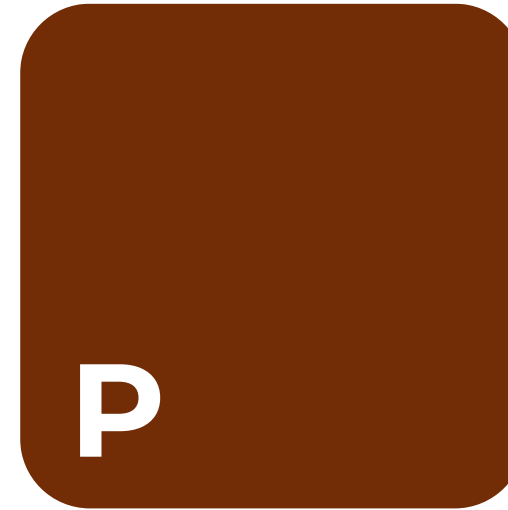
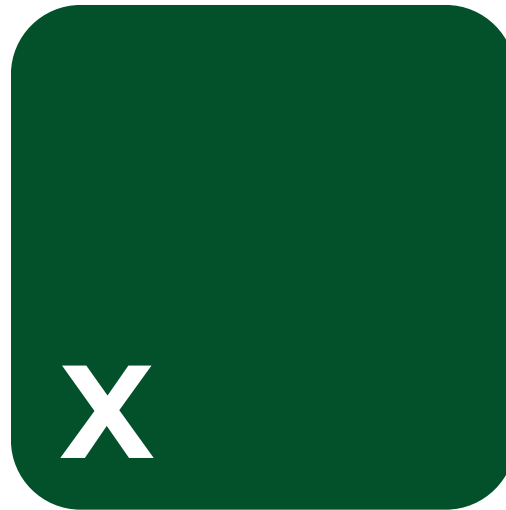
Switch between  
Automotive SPICE  
and Safety Scope

Different ratings depending on  
the scope for the same practice

Extended base and  
generic practices

# EXPORTS TO WORD, EXCEL & POWERPOINT

- ✓ Generation of Microsoft Word assessment reports
- ✓ Usage of company templates
- ✓ Export of ratings and comments to Microsoft Excel
- ✓ Generation of a summary presentation in Microsoft Powerpoint
- ✓ Export of attributes and profile ratings to Adobe PDF and Microsoft Excel



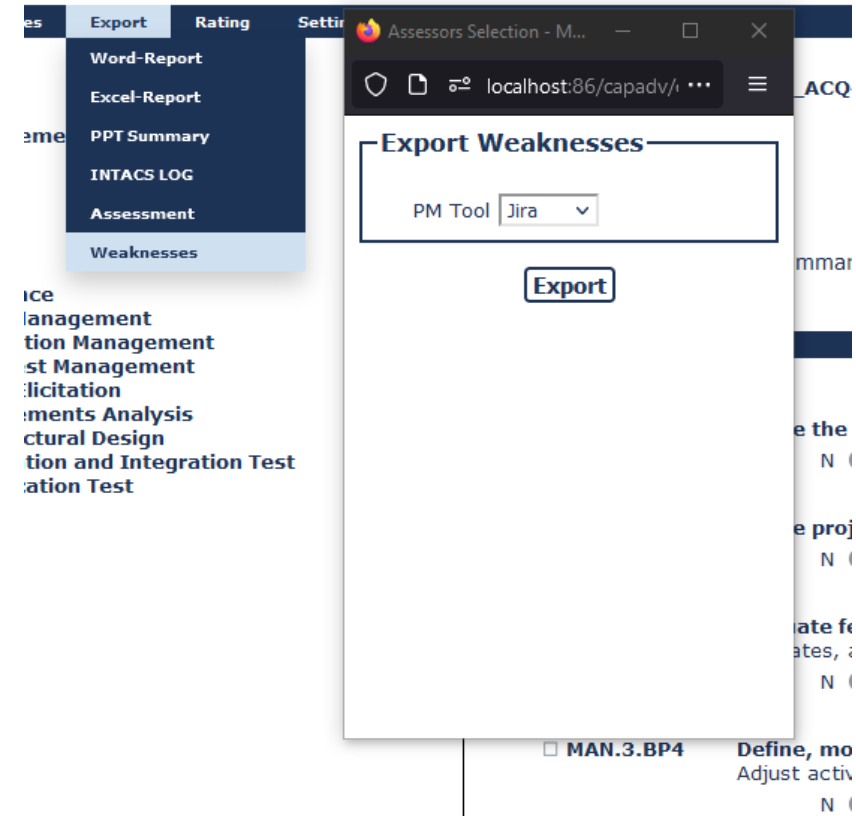
**Statement by HELLA Manager about using CapAdv:**

**CapAdv is perfectly integrated into our internal processes due to its capability to filter and export benchmarking data in an easy to use format. This drives our improvement.**

# WEAKNESS EXPORT

Weaknesses that are found during an assessment can now be directly exported to a ticket-system friendly format.

This file can be used to generate tickets within your system of choice by simply using the import function of the chosen tool.



# REPORT ASSESSOR FUNCTIONALITY

To centralize all results, a special account type called "Report Assessor" can be used.

## Report assessor

All assessors can copy their ratings and notes to this assessor during consolidation.



## Integrate report in the tool

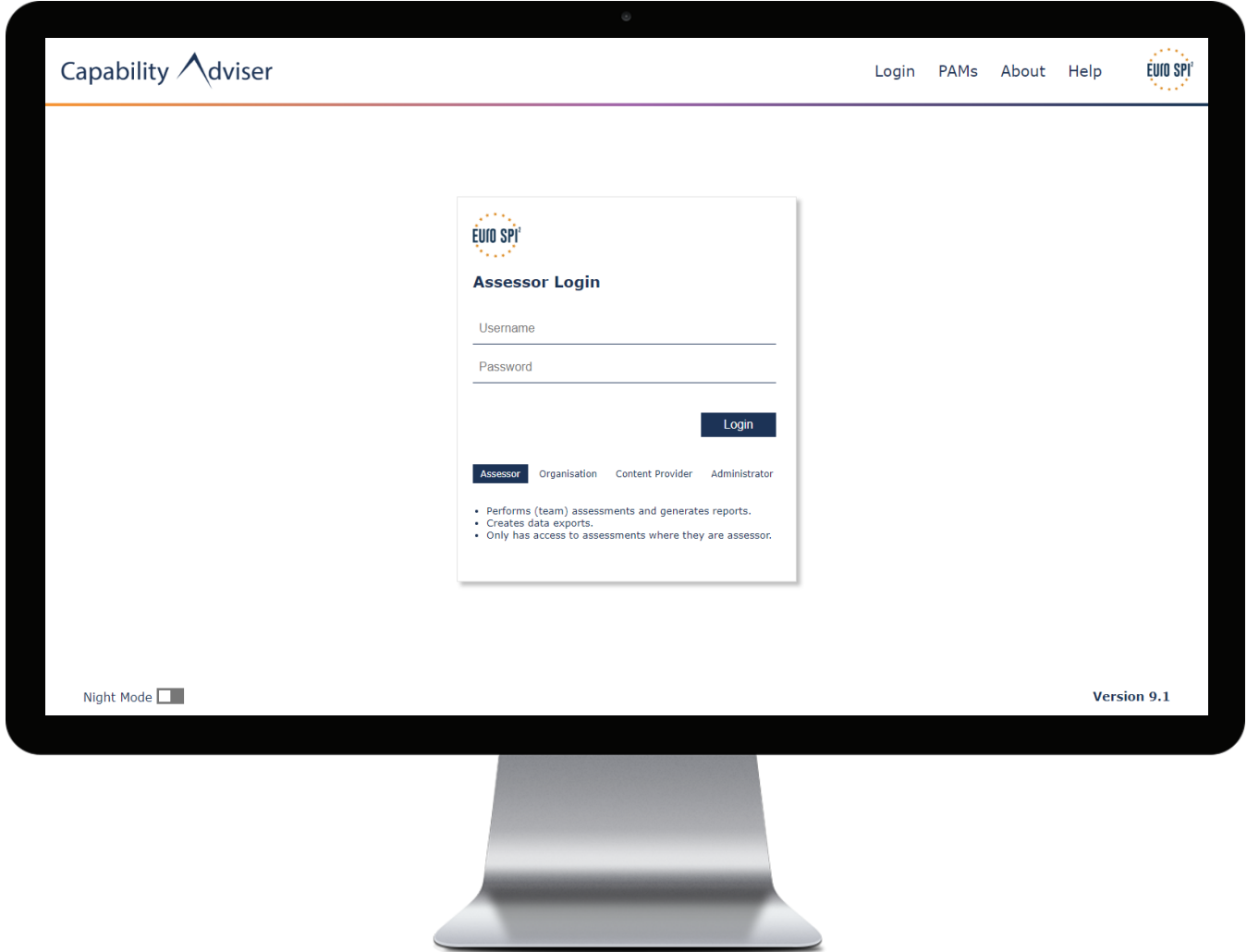
This allows that you distribute work among assessors who jointly write a report which is created through a joint reporting assessor.



**Version 9.1**  
capadvsupport@iscn.com



## New Landing Page



## Assessor: New UI featuring Tabs

When before you would navigate to the „Consistency“ view via the blue menu at the very top, this view is already loaded in its respective tab in Version 9.1. You can therefor also go back and forth more easily without having to close/reopen or search for the window whenever you swap.

Similarly the Notepad, Settings and Help have been moved to the right in the tab bar.

## Assessor: New UI featuring Tabs

If you prefer working in with separate windows however, do not worry. Most of the views can be popped-out using the button on the right of it.

Views that do not automatically refresh also feature a manual refresh option there.

The screenshot illustrates the 'Assessor' UI. On the left, a table titled 'Rating Consistency' is shown with columns for 'Rating Consistency' and 'Covered'. Below the table are 'Refresh' and 'Pop-Out' buttons. An arrow points from the 'Pop-Out' button to a detailed view of the 'Consistency' tab. This view includes a 'General Test Assessment' header, a 'Software Requirements Analysis' sub-header, and a table of violations. The table has columns for 'Rated Rating', 'Rating', 'Related Rating', 'Instance', and 'Rating'. Below the table, there are 'Refresh' and 'Pop-Out' buttons. The 'Refresh' button is highlighted with a blue circle.

Rated Rating	Rating	Related Rating	Instance	Rating	Rating Consistency	Covered
SUP.8.BP1	L	SUP.8.BP3	General	F	[SUP.8.RL.14] If the strategy-related activities are not performed according to the defined strategy (BP1), the indicators BP2, BP3, BP4, BP5, and BP6 shall be downrated, respectively.	<input type="checkbox"/>
SUP.8.BP1	L	SUP.8.BP4	General	F	[SUP.8.RL.14] If the strategy-related activities are not performed according to the defined strategy (BP1), the indicators BP2, BP3, BP4, BP5, and BP6 shall be downrated, respectively.	<input type="checkbox"/>
SWE.2 2.2.1	N	SWE.2 2.2.4	General	P	[CL2.RL.41] If the indicator for defining requirements for the work products (GP 2.2.1) is downrated due to non-appropriate review and approval criteria, the indicator GP 2.2.4 shall be downrated.	<input type="checkbox"/>
SWE.1 2.2.1	N	SWE.1 2.2.4	General	P	[CL2.RL.41] If the indicator for defining requirements for the work products (GP 2.2.1) is downrated due to non-appropriate review and approval criteria, the indicator GP 2.2.4 shall be downrated.	<input type="checkbox"/>

## Assessor: Notebox Sizes Setting

Another way of customizing how you work within CapAdv are the new Notebox Settings.

You can choose the amount of rows each box spans. In this example it is set to six.

The option ranges from 4 to 14 in increments of 2.

You can choose:

- Wide
- Normal
- Small

The screenshot displays the 'Note Settings' configuration panel. It includes three dropdown menus: 'Note Mode' set to 'Triple Note', 'Width' set to 'Wide', and 'Height' set to '6 rows'. Below the settings is a 'Preview' section showing a notebox for the requirement 'MAN.3.BP1 Define the scope of work'. The notebox is divided into three sections: 'Strengths', 'Weaknesses', and 'Comments/Suggestions', each containing placeholder text. The notebox is configured to span 6 rows, as indicated by the 'Height' setting and the visual layout of the preview.

## Assessor: Summary Consolidation

An often requested feature was a view to consolidate not only notes but also the summaries of the whole process.

With Version 9.1 you will find a „Summary Consolidation“ button underneath the textbox.

Clicking it will open up a new window with your summary field ready to be edited and your co-assessor's summaries displayed so you can copy/paste needed parts.

The screenshot displays the 'Software Requirements Analysis' interface. At the top, there is a navigation bar with icons for 'Notes', 'Summary', 'Recommendations', 'Rules', 'Outcomes', 'Context', 'Save All', and 'Workproducts'. Below this is a large empty text area. A button labeled 'Summary Consolidation' is positioned below the text area, highlighted with a blue border and a black arrow pointing to it from the left. Below the button, a browser window titled 'Summary Consolidation - Brave' is shown. The browser address bar contains the URL: 'http://localhost/capadv\_dev/assessor/summaryConsolidation.php?ele=MUpMdFdMcVI6RWduSINrQUeTRVh...'. The browser content shows the title 'Summary Consolidation' and a subtitle 'Summary for SWE.1 1'. Below the subtitle is a large empty text area. At the bottom of the browser window, the name 'Tobias Danmayr' is displayed, followed by a horizontal line and a paragraph of text: 'Summarizing the process SWE.1 in an efficient manner is hard. The process shows maturity in some areas but total lack of management in others.'

## Assessor: Evidence Collection

An area we also improved is the evidence collection.

Not only is there now the possibility to import/export lists of evidences (.xlsx) but the evidences can be linked to specific practices and not only the whole process like it used to.

This linking is then also shown underneath your notes in the Rating view.

SWE.1 - Level 1 | **Evidences** | Consistency | Overview | Consolidation

+ | Import | Export

Title	Description	Path	Instance	Linked Elements	Linked PCs	Actions
Test Title	Interesting Description		General	SWE.1 1 SWE.2 1 SWE.3 1	SWE.1.BP1 SWE.1.BP2	Edit -

SWE.1.BP1 **Specify software requirements.** Use the system requirements and the system architecture and changes to system requirements and architecture to identify the required functions and capabilities of the software. Specify functional and non-functional software requirements in a software requirements specification. [OUTCOME 1, 5, 7]

N  P  L  F  Not App.   Note

**Strengths:**  
Testing  
Linebreaks  
For me

**Weaknesses:**

**Comments/Suggestions:**

**Evidences:**  
- Test Title

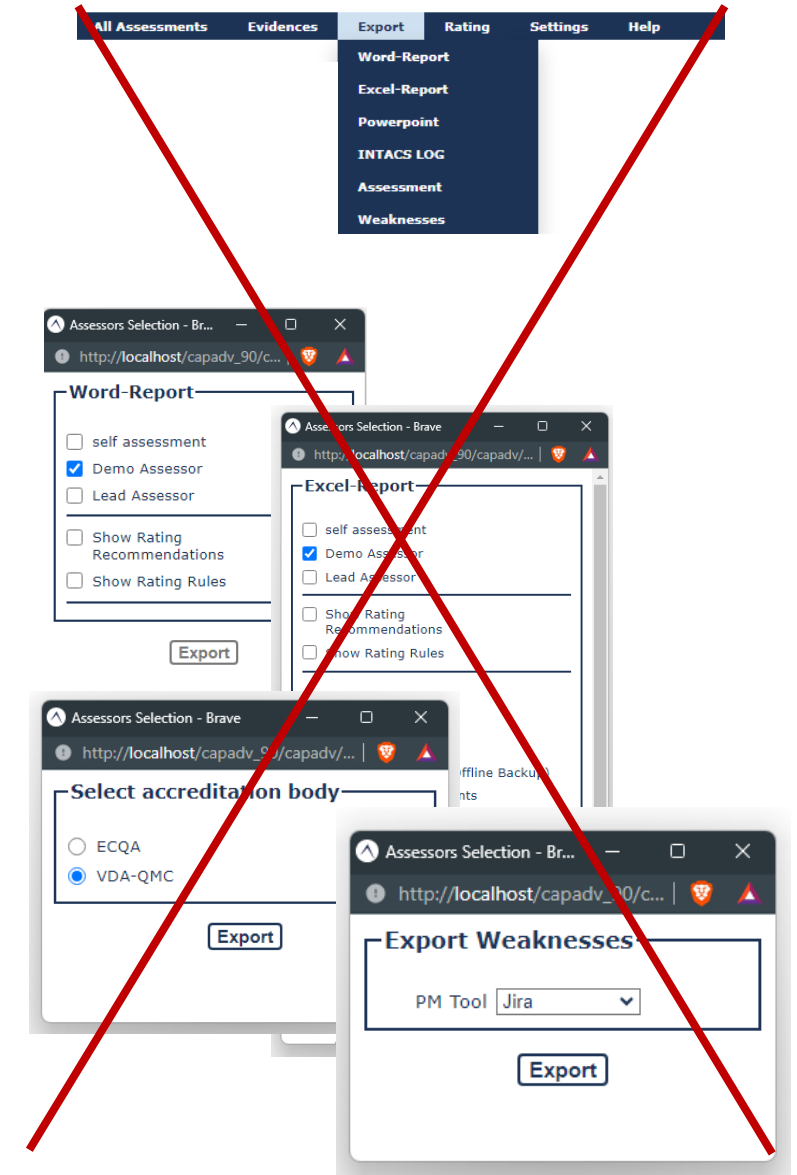
Save Clear Other Notes Copy Weaknesses

## Assessor: Export Window

With Version 9.1, instead of selecting which type of file you want to export to and then getting a window for it, you now get a single window with all your options:

- Word
- Excel
- Powerpoint
- PDF
- inacts Log
- CAAF (Capability Adviser Assessment File)

After selecting the file format you want, for some formats, you can also specify which type of data you want to export.

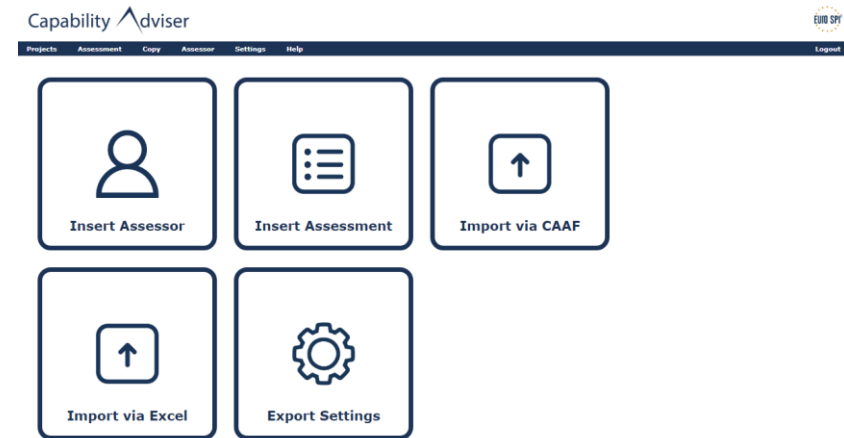


## Non-Assessors: Quick Launch Tiles

Similarly to the tabs for assessors, all other roles within the tool, usually have some features they use more often than others.

The most common ones now have Quick Launch Tiles right on the starting page after logging in.

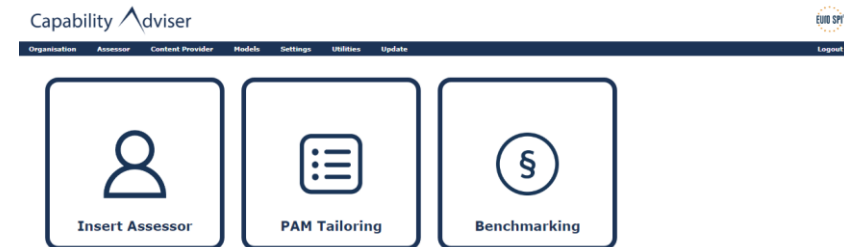
Organisation



Content Provider



Administrator





## Administrator: Assessor Import/Export

With larger amounts of assessors, the need to efficiently add/remove them from the pool rises.

Therefore we've created a very simple and fast way to export/import assessors from within the admin account.

Export will prompt you with a download of an Excel file.

Import then lets you import a file of the same format. Assessors missing in this file will be set to inactive and new assessors will be created accordingly.

The screenshot displays the 'Capability Adviser' admin interface. At the top, a navigation bar includes 'Organisation', 'Assessor', 'Content Provider', 'Models', 'Settings', 'Utilities', and 'Update'. The 'Assessor' menu is open, showing options for 'Insert', 'Edit', 'Export', and 'Import'. An arrow points from the 'Export' option to a table of assessor data, and another arrow points from the 'Import' option to the 'IMPORT ASSESSORS' page.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Company	Address	Tel	Fax	Email	Forename	Surname	Username	Password	Intacs	Language	Type	Status
2	ISCN	Geac, Aust*			geac@iscn.com	Geac	Geac	geac	Geac123456789		English		0
3	ISCN				geac@iscn.com	Geac	Geac	geac	Geac123456789		English		0
4	ISCN	Geac			geac@iscn.com	Geac	Geac	geac	Geac123456789		English		0
5	ISCN	Geac			geac@iscn.com	Geac	Geac	geac	Geac123456789		English		0
6	ISCN	Geac			geac@iscn.com	Geac	Geac	geac	Geac123456789		English		0
7	ISCN	Geac			geac@iscn.com	Geac	Geac	geac	Geac123456789		English		0
8	ISCN	Geac			geac@iscn.com	Geac	Geac	geac	Geac123456789		English		0
9	ISCN	Geac			geac@iscn.com	Geac	Geac	geac	Geac123456789		English		0
10	ISCN	Geac			geac@iscn.com	Geac	Geac	geac	Geac123456789		English		0
11	ISCN	Geac			geac@iscn.com	Geac	Geac	geac	Geac123456789		English		0

The 'IMPORT ASSESSORS' page features a heading 'IMPORT ASSESSORS' and a sub-heading 'Import a complete list of assessors from an XLSX-File'. Below this, there is a section 'Select an xlsx-file:' with a 'Choose File' button and the text 'No file chosen'. At the bottom, there is an 'Import' button.

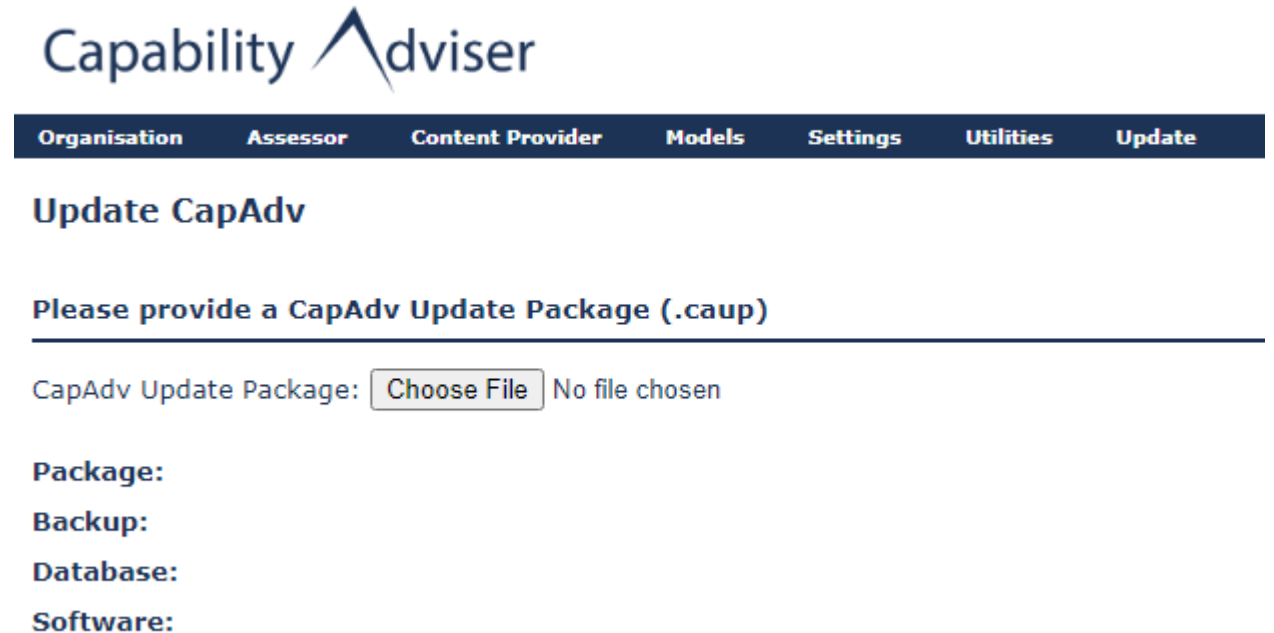
## Administrator: Update Software

And last but not least, going forward updates will be distributed via the .CAUP format, a custom archive format.

(Capability Adviser Update Package)

Upon uploading the package, the scripts will validate whether or not the package's structure is correct and if the package was in fact provided by ISCN.

Then backups of the database and software are created before it updates both the database and software.



The screenshot displays the 'Update CapAdv' page in the Capability Adviser application. At the top, the 'Capability Adviser' logo is visible. Below it is a dark navigation bar with the following menu items: Organisation, Assessor, Content Provider, Models, Settings, Utilities, and Update. The main heading is 'Update CapAdv'. A sub-heading reads 'Please provide a CapAdv Update Package (.caup)'. Below this is a horizontal line. The text 'CapAdv Update Package:' is followed by a 'Choose File' button and the text 'No file chosen'. Below this are four labels: 'Package:', 'Backup:', 'Database:', and 'Software:'.

# ASPICE VS SAFETY

It is possible in Version 9.1.1 to save both a rating for basic SPICE aswell as Safety. Thus a clearer picture can be gained when it comes to Safety relevant practices and the impact of Safety on the overall rating.

- **SWE.1.BP1 Specify software requirements.** Use the system requirements and the system architecture and changes to system requirements and architecture to identify the required functions and capabilities of the software. Specify functional and non-functional software requirements in a software requirements specification. [OUTCOME 1, 5, 7]

### ISO 26262 Extended Questions:

- Are software safety requirements in line with the technical safety requirements (Requirements, interfaces, constraints, ..)?
- Are all software safety requirements marked as safety requirements and referred to their source?
- Are semiformal notations used for ASIL C and D?
- Are software safety diagnose requirements assigned to an appropriate diagnose level (e.g. e-gas model with (Level 1 - base diagnosis, Level 2 - independent plausibility checks and functional diagnosis, Level 3 - system control, checking the call sequences, processor, etc.).
- Is the software state machine described and is the safe state clearly separated?
- Is the independence of the monitoring software clearly described?
- Are the software signals specified in the hardware software interface?
- Is there a diagnose matrix describing safety diagnose L2 and L3 functions and the expected fault reaction?
- Are there non functional software requirements relating to the ISO 26262 method tables?
- Are there non functional software requirements relating to the ASIL level assigned influencing the software architecture?
- Is the operating software and the related task management and synchronization of the control software considered?
- Are the appropriate methods used for analysis (see method tables in ISO 26262)?

**SAFETY**  N  P  L  F  Not App.

**ASPICE**  N  P  L  F  Not App.  Note

Assessor: Demo Assessor  
Level: 1

BP	1	2	3	4	5	6	7	8	9	10
SWE.1	F	F	F	F	F	F	F	F		
<b>△</b> SWE.1	P	P	P	P	P	P	P	P		

### Calculation

Process	Assessor	PA	1.1	2.1	2.2	3.1	3.2
MAN.3	Demo Assessor		F				
SWE.1	Demo Assessor		F				
<b>△</b> SWE.1	Demo Assessor		P				

# AVL FUSE INTEGRATION

**Export Data**

Word
  Excel
  PowerPoint
  PDF
  3D

---

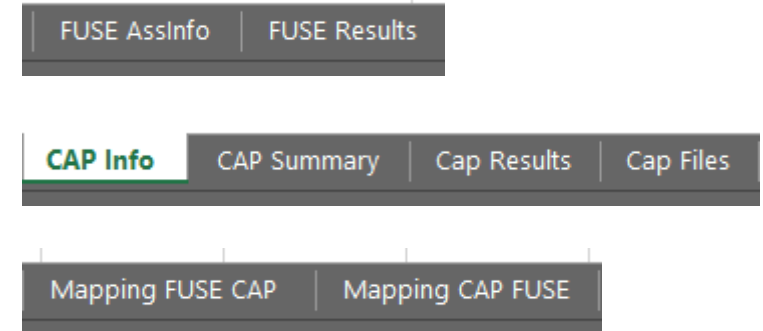
Demo Assessor

---

Ratings  
 Process Attributes  
 Weaknesses  
 Workproducts  
 FUSE

Export

✓  
Export successful!



CapAdv is able to export assessment data in a format that the AVL FUSE tool understands. The same format will work both way for importing and exporting.

At the end of the file there is even a mapping section allowing you to implement the import of this file into other tools so the export within CapAdv is not limited to be used with AVL FUSE only.



# AVL FUSE INTEGRATION

We did a mapping of the Objectives to Practices in ASPICE that is also part of this export. This will allow other tools to adopt our format more easily.

	A	B	C	D	E
1	<b>ID FUSE</b>	<b>Name FUSE</b>	<b>ID Cap</b>	<b>Process</b>	<b>Practice</b>
2		ISO_26262:2018-2-5-Obj1			
3		ISO_26262:2018-2-5-Obj2			
4		ISO_26262:2018-2-5-Obj4			MAN.3.BP6
					SUP.1.BP1
					SUP.1.BP2
					SUP.1.BP3
					SUP.1.BP4
					SUP.1.BP5
					SUP.1.BP6
5		ISO_26262:2018-2-5-Obj5			SUP.1.BP7
					SUP.1.BP8

# ASSESSMENT CALENDAR

The previously introduced calendar will get an update that allows you to view and edit the assessment details directly from the calendar view.

Also you'll be able to generate .ical files to import into outlook etc.

November 2023

Mon	Tue	Wed	Thu	Fri	Sat	Sun
		1 CW44	2 CW44	3 CW44	4 CW44	5 CW44
6 CW45	7 CW45	8 CW45	9 CW45 Test Safety	10 CW45	11 CW45	12 CW45
13 CW46	14 CW46	15 CW46	16 CW46	17 CW46	18 CW46	19 CW46
Test Safety 2023-11 Gap Analysis						
20 CW47	21 CW47	22 CW47	23 CW47 Test Safety Instance	24 CW47	25 CW47	26 CW47
27 CW48	28 CW48	29 CW48	30 CW48			

Assessment Information

Project	Test Project 4
Assessment Name	Demo Assessment 4
Description	none
Domain	Mechanic SPICE ⓘ
Safety Rating Options	0
Target Level	3
Read only?	No

Assessors

Assign Assessors	
Lead Assessor	Assessor Demo
Report Assessor	Report for Demo Assessment 4 2024-08-07

Additional Information

Assessment period	2024-08-09 - 2024-08-16
Assessment sponsor	demo sponsor
Local assessment coordinator	demo coordinator

EDIT ASSESSMENT

Assessment Information

Project	Test Project 4
Assessment Name	Demo Assessment 4
Description	none
Domain	Mechanic SPICE ⓘ
Target Level	3
Read only?	<input type="checkbox"/>

Assessors

Report for Demo Assessment 4 2024-08-07	Assessor Demo	Remove Assessor	Add
-----------------------------------------	---------------	-----------------	-----

Assign Assessors

Lead Assessor	Assessor Demo
Report Assessor	Report for Demo Assessment 4 2024-08-07

# ASSESSMENT SCHEDULING

Additionally we're adding a scheduling tool that allows you to set the time of each interview session, how long each day will be, etc.

At the end you'll be able to create a full assessment schedule within CapAdv that is also changeable. So if one session is moved, all the other sessions are reordered accordingly.

This view will also be exportable to .ical.

## SCHEDULE ASSESSMENT

### Process Interviews

Duration of Process Interview (in minutes)	120	MAN.3
Duration of Process Interview (in minutes)	120	SUP.1
Duration of Process Interview (in minutes)	120	SUP.8
Duration of Process Interview (in minutes)	120	SWE.1
Duration of Process Interview (in minutes)	120	SWE.2
Duration of Process Interview (in minutes)	120	SWE.3
Duration of Process Interview (in minutes)	120	SWE.4
Duration of Process Interview (in minutes)	120	ACQ.4
Duration of Process Interview (in minutes)	120	SWE.6
Duration of Process Interview (in minutes)	120	SUP.9
Duration of Process Interview (in minutes)	120	SUP.10
Duration of Process Interview (in minutes)	120	SWE.5

### Schedule Information

Start of work day	<input type="text" value="07:00 AM"/>
End of work day	<input type="text" value="04:00 PM"/>
Consolidation Duration (in minutes)	<input type="text" value="30"/>
Feedback Session Preparation Time (in minutes)	<input type="text" value="120"/>
Feedback Session (in minutes)	<input type="text" value="180"/>

### Breaks

Duration of Breaks (in minutes)	<input type="text" value="15"/>
Lunchbreak Start Time	<input type="text" value="12:00 PM"/>
Duration of Lunchbreak (in minutes)	<input type="text" value="60"/>



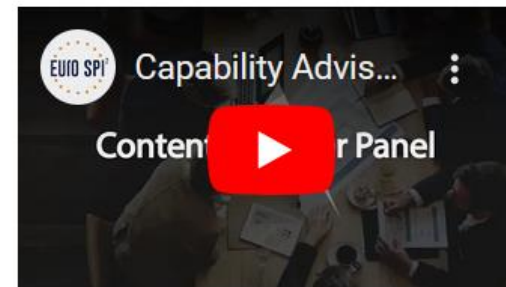
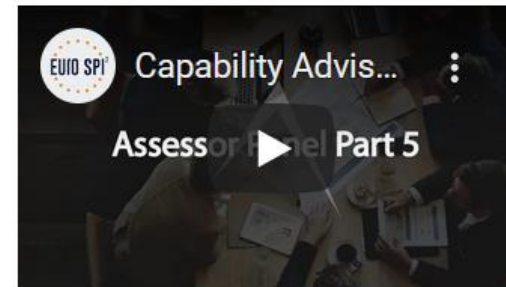
# OTHER PLANNED FEATURES

- Re-Assessment functionality featuring specific helper functions and a UI to streamline usage of prior ratings/notes and creation of new ratings/notes, highlighting changes, etc.
- Merging of partial assessments to create a „full-scope“ assessment
- Evidence user – can only add/update the evidence list



**Thank you.**  
[capadvsupport@iscn.com](mailto:capadvsupport@iscn.com)

# CAPABILITY ADVISER TUTORIALS



## Thank you for cooperating with ISCN GmbH.



ISCN is INTACS certified training provider for Automotive SPICE assessor courses



ISCN moderates the German task force SOQRATES (<https://soqrates.eurospi.net>) since 2003 where >20 Tier 1 collaborate on ASPICE, Safety and Security.



ISCN organises the EuroSPI conference since 1994 where e.g. VW is organising a workshop community, and VW, Rheinmetall AG, EB, MAGNA, AVL held key notes. <http://www.eurospi.net>



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ISCN is certified by VDA to hold provisional and competent ASPICE assessor

**Thank you for cooperating with EuroSPI<sup>2</sup> Certificates & Services GmbH.**



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