





Automating Common Criteria



About me



José Ruiz:

- Co-Founder & CTO
- Common Criteria & FIPS 140-2 Expert
- Member of the SCCG (Stakeholder Cybersecurity Certification Group)
- □ ICCC Program Director
- Editor at thematical group "IACS Cybersecurity certification ".
- Editor at JTC13 WG3: "Cybersecurity Evaluation Methodology for ICT products"









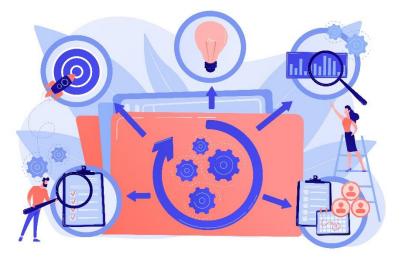




Why automatization tools for Common Criteria?

- **Scalability Issues** in the industry
 - Not enough engineers in the industry!
 - We may expect an increase of Cybersecurity certifications in the following years

Reduce Paperwork time consuming activities!
Less time to obtain the certificate
Lower cost for manufacturers

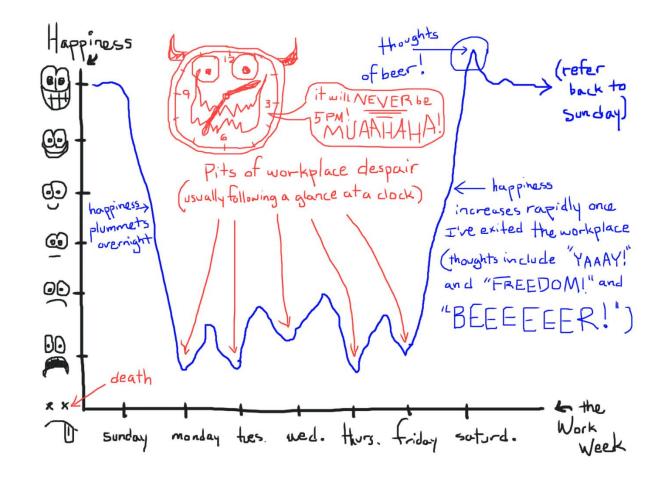






Why automatization tools for Common Criteria?

Make Engineers Happy!



ICCC 2021



Automation, an old acquaintance

- NIST announced a project called, "Automation of the Cryptographic Module Validation Program (CMVP)" for FIPS methodology.
- Other labs have done some tools for certain part of the process of Common Criteria, like Lighshipsec, with the creation of a Conformance Automation tool covering the testing part
- NIAP is developing a tool for automating Security Targets.







Automation, part of our NDA

- Developers of LinceToolbox, a tool that automates LINCE (Spanish lightweight evaluation and certification methodology for ICT security products)
- Currently developing CCCAB, which will allow Common Criteria CABs to smooth the certification process.
- Developers of CCToolbox, the all-in-one framework for Common Criteria.







CCToolbox, the all-in-one solution for Common Criteria



- Perfect tool for **Developers and Engineers**
- **Simplifies** most tedious part, **CC Documentation**
- Ensures that all the Common Criteria requirements are met
- CCGen: 40% save of the CC documentation development time

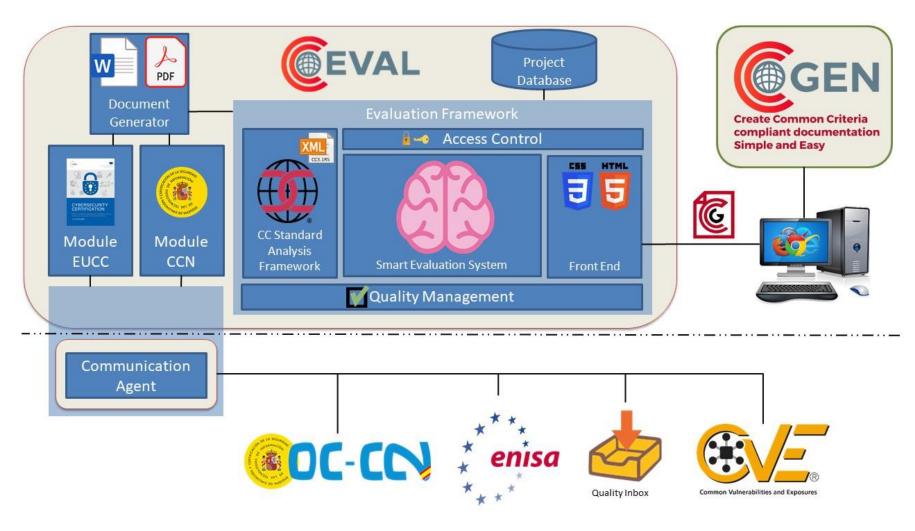


- Focused on the technical aspects offering evaluation technical report consistency
- Automatization of some of the evaluation activities
- **CCEval: Save from 15% to 40% in the evaluation time**



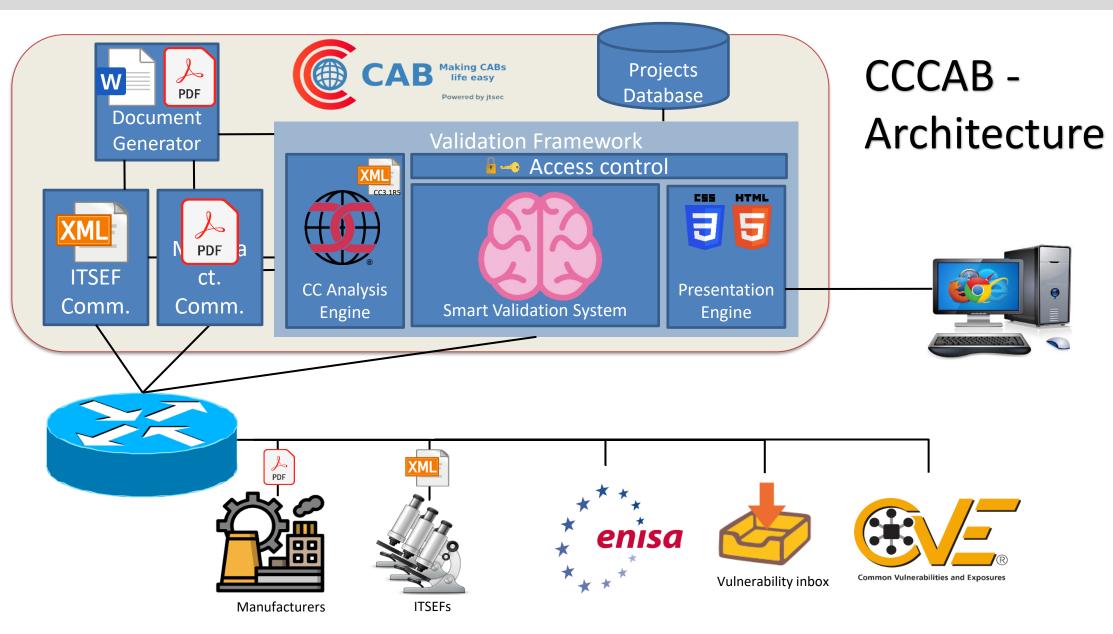


CCEval - Architecture











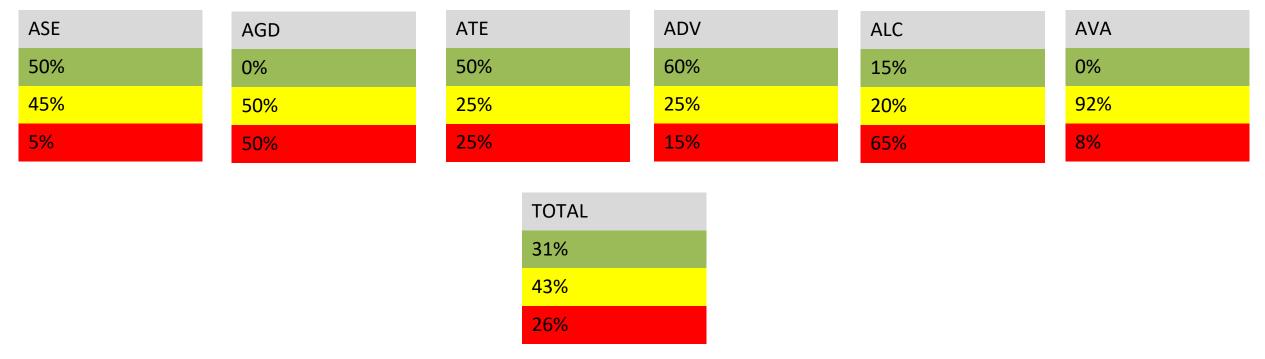








CCToolBox Benefits



% of work that will be filled by CCEval and it's not necessary to review the evidence
% of work that will be filled by CCEval but it's necessary to review the evidence
% of work that is partially filled by CCEval but it's necessary to add content in the workbook





CCToolBox Indirect Benefits

- Added value to your customers
 - Increase confidence that the certification will be smoother and quicker
 - Make CCGen available to your customers
- Speed up validation process
 - Forget about **consistency** problems
- Internal:
 - Make your engineers happy: Let them focus on the real security problems and
 - Speed up the **learning curve** of engineers



Be on time Go faster than your competence. Speed up time on market

Save money

Manage your Common Criteria certification saving up to 50% costs

100% reliability

Avoid inconsistencies, non conformities on your project

Happy engineers Just making Common Criteria easier





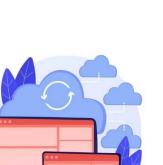
CCToolBox Direct Cost Reduction Simulation

CCGen + CCEval			CCEval		
Evaluation Price	100K		Evaluation Price	100K	
Evaluator workload cost for EAL2	60K	EAL 2	Evaluator workload cost for EAL2	60K	
CCGen + CCEval reduction (25% of the cost)	15K		CCEval reduction (15% of the cost)	9K	
Evaluator workload cost with CCGen + CCEval	45K		Evaluator workload cost with CCEval	51K	

Deployment mode

- Software as a Service
 - CCToolbox is available online providing unique access to each user

- On Premise
 - Delivery of the CCToolbox appliance with a ready to use product













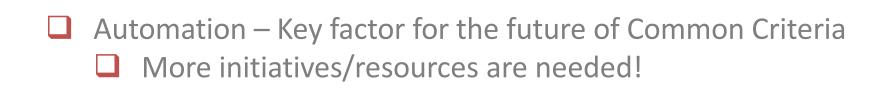
Packages and features included

Feature	Packages			
	Per project	Yearly	Lifetime	
Invoicing by tokens(1)	~	-	-	
Yearly Invoicing	-	√	-	
One Time Payment		-	\checkmark	
Available On Premise and Software as a Service	~	~	1	
No projects limit	×	√	~	
Tools updates/improvements included	1	~	x ⁽²⁾	
Bugs fixing	✓	√	√	
Initial workshop setup	×	√	√	
	Perfect for companies that have a reduced number of projects per year	Perfect for companies that have a high number of projects per year and wants to keep the tools up to date.	Perfect for companies that have a high number of projects per year and prefers not to have a yearly payment.	

Conclusions

ICCC 2021

- "Old way of doing Cybersecurity Certifications"
 - Not scalable!
 - Not attractive for engineers!
 - Cost-effectiveness Issues













Contact

jtsec Beyond IT Security Granada & Madrid – Spain <u>hello@jtsec.es</u>

@jtsecES www.jtsec.es



"Any fool can make something complicated. It takes a genius to make it simple." Woody Guthrie