











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"











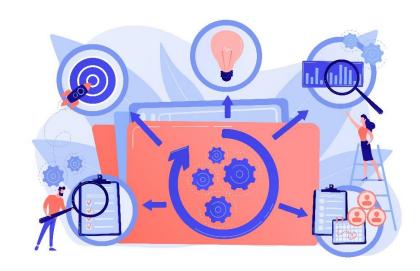




Why automatization tools for Common Criteria?

- ☐ 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



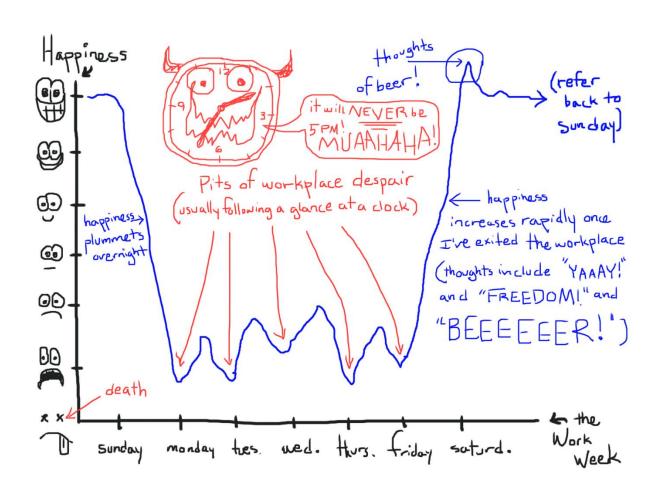






Why automatization tools for Common Criteria?

Make Engineers Happyl









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





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

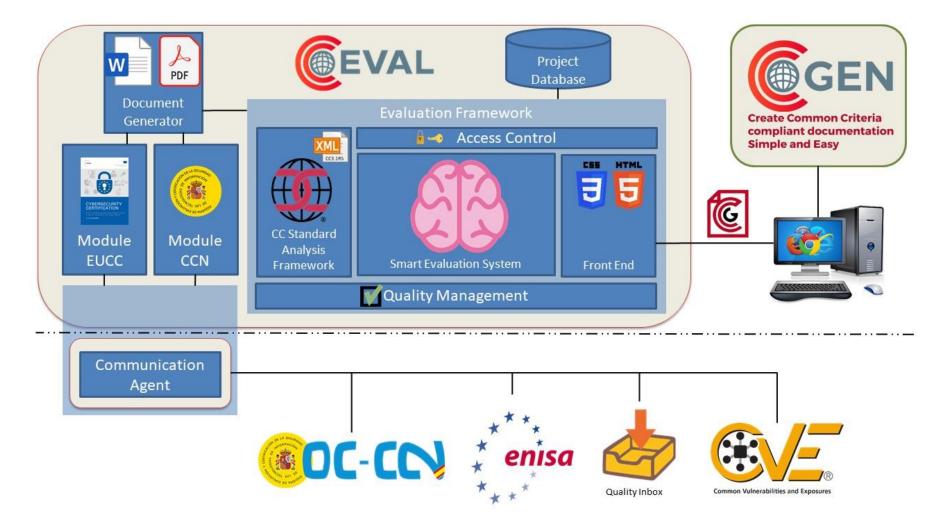
- Excellent and intuitive tool, aimed at CyberSecurity labs
- Focused on the **technical aspects offering** evaluation technical report **consistency**
- Automatization of some of the evaluation activities
- ☐ CCEval: Save from 15% to 40% in the evaluation time







CCEval - Architecture



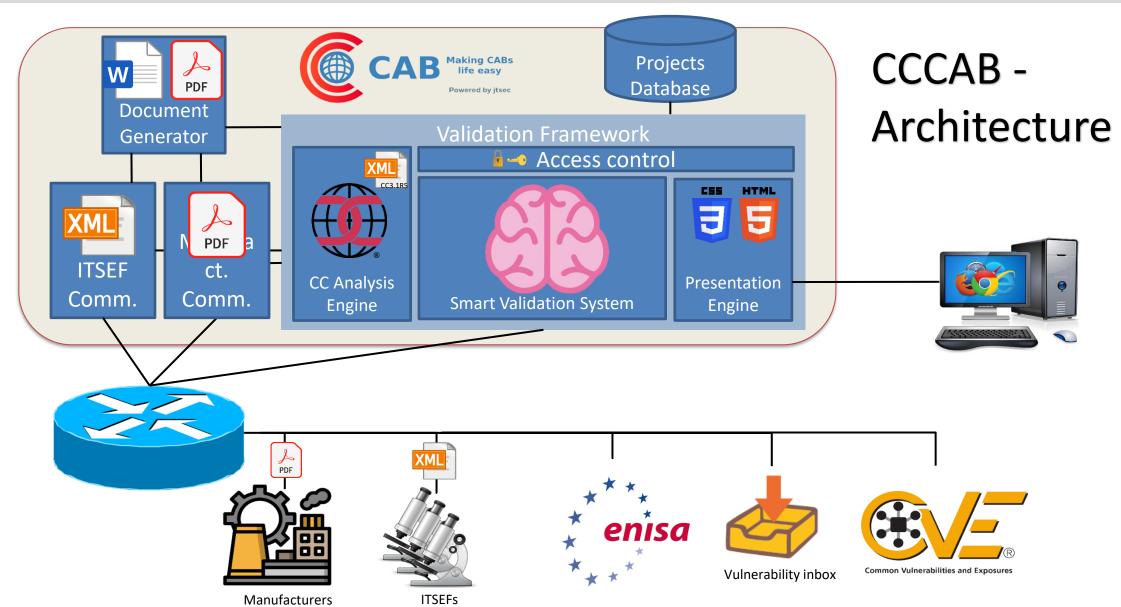




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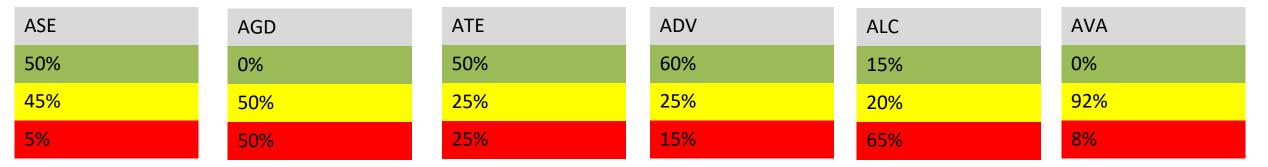




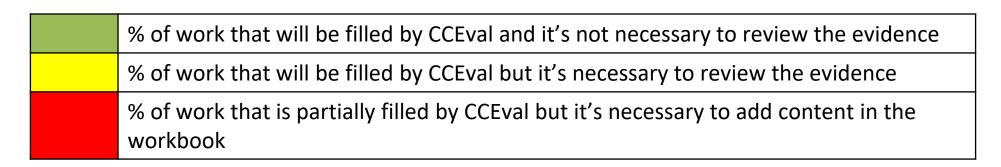




CCToolBox Benefits



TOTAL
31%
43%
26%









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



Save money

Be on time

Go faster than your competence. Speed up

Manage your Common Criteria certification saving up to 50% costs

100% reliability

Avoid inconsistencies.

non conformities on



02





Happy engineers
Just making Common
Criteria easier







CCToolBox Direct Cost Reduction Simulation

CCGen + CCEval			CCEval	
Evaluation Price	100K	EAL 2	Evaluation Price	100K
Evaluator workload cost for EAL2	60K		Evaluator workload cost for EAL2	60K
CCGen + CCEval reduction (25% of the cost)	15K		CCEval reduction (15% of the cost)	<i>9K</i>
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	(2)	-	✓	
Available On Premise and Software as a Service	✓	*	√	
No projects limit	×	✓	✓	
Tools updates/improvements included	√	√	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

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



- Automation Key factor for the future of Common Criteria
 - More initiatives/resources are needed!









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

Woody Guthrie