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CC & EUCC Documentation Generation



CC & EUCC Paperwork Approved CC & EUCC Documentation Evaluation

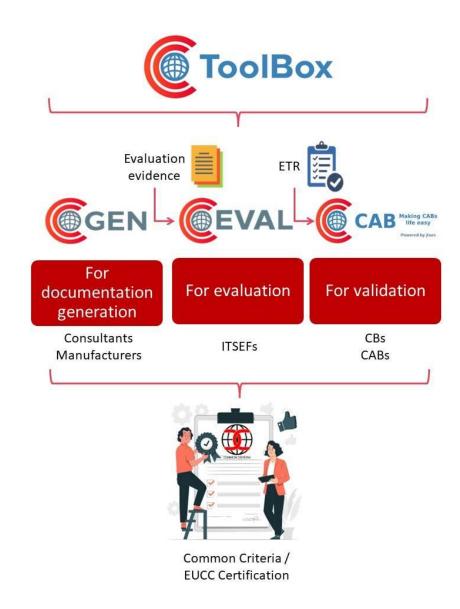


CC & EUCC Automatized & Flawless evaluations CC & EUCC Documentation Validation



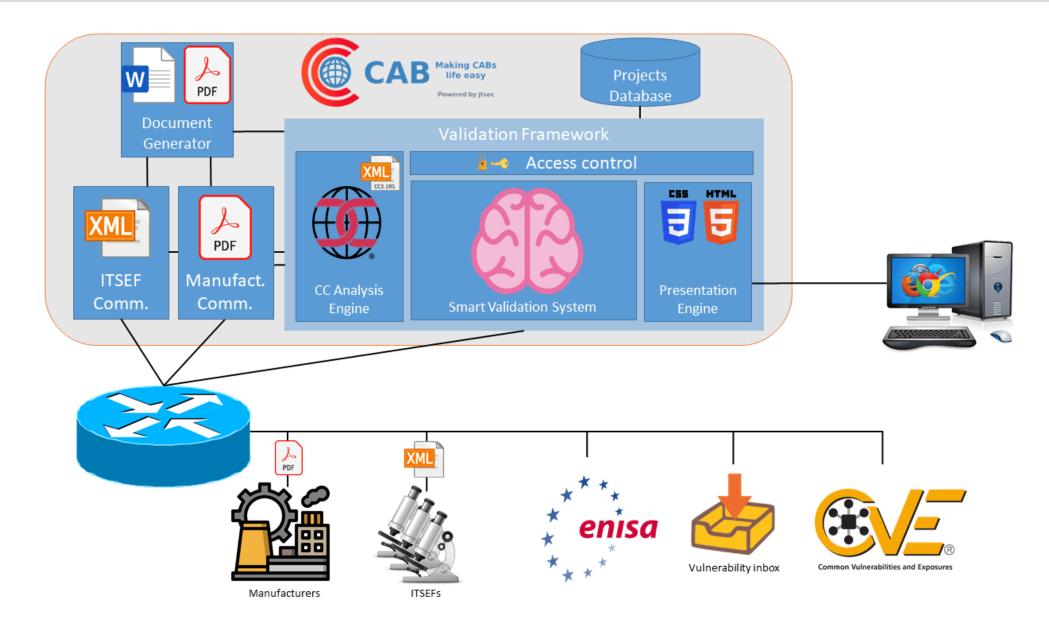
CC & EUCC Certification

















■ Alexander Krumeich

- Job Software Developer, Certification Specialist
- Company CompuGroup Medical Deutschland
- CC EAL 3+ for KoCoBox MED+ since 2015
- Background Java, Unix, LaTeX, DevOps
- Automation Project Developing n-doc



CGM Deutschland AG, Cologne, Germany





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Common Criteria Certification
BSI-DSZ-CC-xyz BSI-CC-PP-00zz

Security Target

MAUVECORP MAUVEVPN CLIENT Version 2.11

MauveCorp Fliederweg 98 D-50020 Köln certification@mauvecorp.com

Document Version 1.0-SNAPSHOT 2022-10-06
[Commit 9420bce / main]

6.2.5. Cryptographic Services

FCS_COP.1/Hash Cryptographic operation

FCS_COP.1.1/Hash

The TSF shall perform hash value calculation in accordance with a specified cryptographic algorithm SHA-1, SHA-256, SHA-5128 and cryptographic key sizes none that meet the following: FIPS PUB 180-4 [FIPS PUB 180-4].

FCS_COP.1/HMAC Cryptographic operation

FCS_COP.1.1/HMAC

The TSF shall perform HMAC value generation and verification in accordance with a specified cryptographic algorithm HMAC with SHA-1, SHA-2569 and cryptographic key sizes 160 and 256 bit 10 that meet the following: FIPS PUB 180-4 [FIPS PUB 180-4], RFC 2404 [RFC 2404], RFC 4868 [RFC 4868], RFC 5996 [RFC 5996].

FCS_CKM.1 Cryptographic key generation

FCS_CKM.1.1

The TSF shall generate cryptographic keys in accordance with a specified cryptographic key generation algorithm PRF-HMAC-SHA256¹¹ and specified cryptographic key sizes 256 bit 12 that meet the following: TR-03116 [TR-03116-1].

The following algorithms and preferences are supported for TLS key negotiation

- Diffie-Hellman Group 14 according to RFC 3526 [RFC 3526] for key establishment during TLS
- DH exponent shall have a minimum length of 384 bits
- · Forward secrecy shall be provided
- Ephemeral elliptic curve DH key exchange supports the P-256 and the P-384 curves according to FIPS186-4 [FIPS PUB 186-2] as well as the brainpoolP256r1 and the brainpoolP384r1 curves according to RFC 5639 and RFC 7027 [RFC 5639; RFC 7027]
- Peer authentication (if required): X.509 certificate with RSA 2048 bit keys



⁸Assignment: list of SHA-2 Algorithms with more than 256 bit size

⁹Assignment: list of SHA-2 Algorithms with 256bit size or more

¹⁰Assignment: cryptographic key sizes

¹¹ Assignment: cryptographic key generation algorithm

¹²Assignment: cryptographic key sizes





n-doc Key features

TOE model in a relational database

IATEX as weesetting tool

Best procices of software engineering







Continuous Delivery of Documents

Authors/Editors

- edit document sources
- use tools in Docker container

git (GitLab)

- provides version control
- enables collaboration

Jenkins

- runs LaTeX
- creates PDF
- generates static web site for Intranet

Automation

nextCloud

 Document Handover to Lab







Pain Points (developer Perspective)

Insufficient/Incompatible tooling mandated by enterprise policies and ALC

- ALC restrictions prevent using cloud-based tools such as bug trackers
- Office documents are sent by email, all processing is manual
- Developers/Labs/CABs rely on decades-old, outdated Office templates
- Software Developers are not necessarily familiar with Office tools

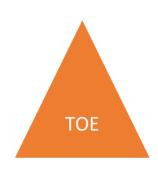
- => Automation not only saves time but ensures reliability: fewer manual, error-prone tasks
- => CC can learn a lot from software engineering: Automation comes natural to software engineers

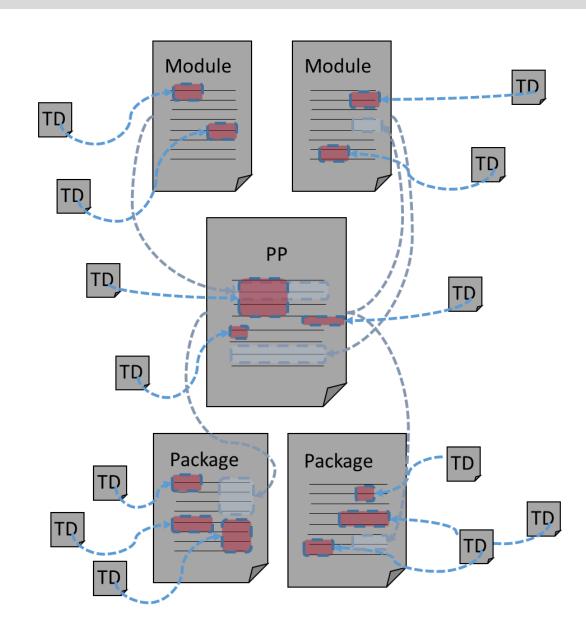






The Challenge - Part 1



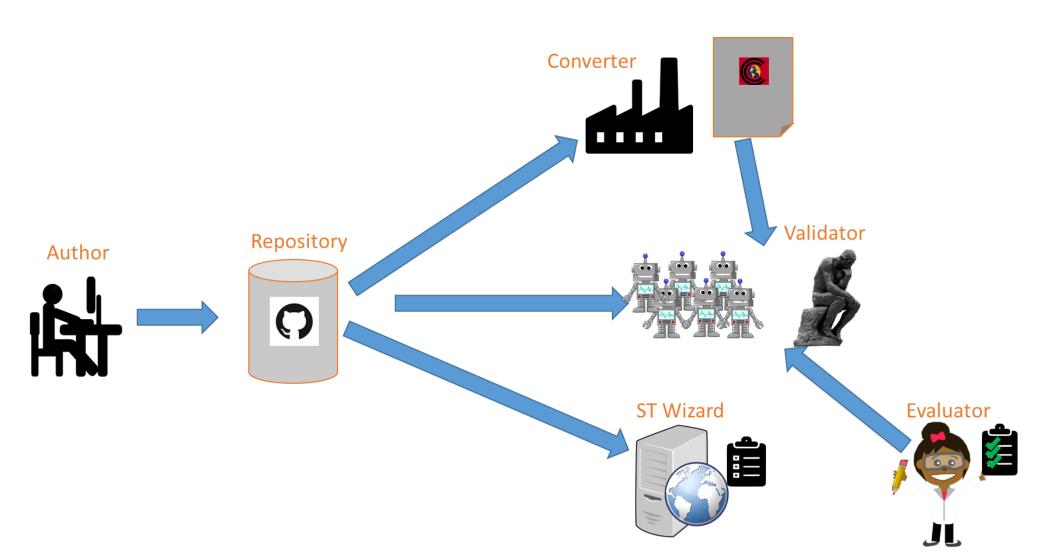








The Challenge – Part 1









QUESTIONS?











