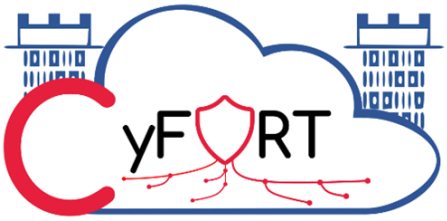

C5-DEC CAD DocEngine

Report template

This document is a C5-DEC CAD DocEngine template report. Modify the various configuration files as described in the user manual to tailor this to your requirements.

General information

Name of the company	itrust Abstractions Lab
Project title	CyFORT
Type	Report (REP)
Reference	3C0A0
Version	1.0
State	Final
Owner	Shafi
Authors	Dijkstra
Application date	03/07/2024
Classification	Confidential

This document can be found in the ALab repository.

Document history

Version	Date	Author	Modifications
1.0	04/07/2024	Ada	First release
0.1	03/07/2024	Alan	First draft

Approval

Name	Role	Responsibility	Signature
Grace	CTO	Content agreement	A
Knuth	RD Scientist	Content agreement	I
Babbage	RD Specialist	Content agreement	I

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Preface

This page can also be used to provide an executive/management summary.

Chapter 1

Introduction

This is a C5-DEC report template that is used by the C5-DEC CAD to generate Common Criteria Evaluation Technical Reports (ETR). The C5-DEC report generation solution relies on specification languages and a series of technologies, with the main ones being Markdown, YAML, LaTeX, Pandoc, Quarto, spreadsheets (ods/xlsx, alternatively plain CSV), and Python; See Chapter 1 on Introduction.

The evaluation basis for the current TOE is version 3.1 (Revision 5) of the Common Criteria (see [1], [2], [3]) and the Common Evaluation Methodology (see [4]).

1.1 Objective

The objective of this document is to provide a report on

1.2 Scope

The scope of this report is limited to

1.3 Enforcement and reading instructions

This document becomes effective once approved by the owner and published on the ALab repository available to all employees of itrust Abstractions Lab. It will remain in effect until revoked or revised by the owner. Only the official documentation available in the Abstractions Lab repository is to be relied upon as the currently applicable version.

The owner's signature is an official recognition of the mandatory character of this document. It is to be respected by all employees of itrust Abstractions Lab.

The use of the simple present tense or the terms '**must**', '**mandatory**', '**required**', or '**shall**' in a statement means that the statement is considered a formal requirement.

The use of words such as '**should**' or the adjective '**recommended**' means that there may be legitimate reasons to disregard the statement, but that the implications of such an exception are to be assessed. The use of terms such as '**may**' or the adjective '**optional**' means that the implementation of the statement is at the discretion of the implementer.

1.4 Audience

This document is intended for the staff members of ALab contributing to this project.

1.5 Document structure

Table 1.1 shows how this document is structured.

Chapter	Title	Description
Chapter 1	Introduction	Provides a short introduction outlining the purpose, objectives, and context of this document.
Chapter 4	Analysis	Describes…
Chapter 5	Summary	Briefly describes…
Chapter 6	Bibliography	Provides bibliographic references.

Table 1.1: Document structure

1.6 Acronyms

Abbreviation	Expansion
ALab	itrust Abstractions Lab
C5-DEC	Common Criteria for Cybersecurity, Crypto, Clouds – Design Evaluation and Certification
CAD	Computer-Aided Design/Development
CC	Common Criteria
CM	Configuration Managmeent
CPSSA	Cyber-Physical System Security Analysis
CyFORT	Cloud Cybersecurity Fortress of Open Resources and Tools for Resilience (CyFORT)
EAL	Evaluation Assurance Level
ECSS	European Cooperation for Space Standardization
ESA	European Space Agency
ICT	Information and Communication Technology
ITR	itrust consulting
OSP	Organization Security Policies
OWASP	Open Web Application Security Project
PIM	Platform Independent Model
PM	Project Management
PMP	Project Management Plan
RID	Review Item Discrepancy
SAMM	Software Assurance Maturity Model
SAR	Security Assurance Requirement
SDLC	Software Development Life Cycle
SDP	Software Development Plan
SFR	Security Functional Requirement
SPD	Security Problem Definition
SSA	Software Security Assurance

Abbreviation	Expansion
SSAP	Secure Software Assurance Plan
SSDLC	Secure SDLC
ST	Security Target
SVVM	Software Verification and Validation Model
TM	Threat Modelling
TOE	Target of Evaluation
TRL	Technology Readiness Levels
TSF	TOE Security Functionality
VVP	Verification and Validation Plan
WBS	Work Breakdown Structure

Table 1.2: Acronyms

1.7 Glossary

Term	Meaning
CM access control	Set of mechanisms and procedures guaranteeing that only authorised access is granted to configuration items.
CM documentation	Set of documents describing how the CM system is defined and used. This encloses handbooks, regulations, documentation of tools used for CM, relation of used tools (if any), and so on.

Table 1.3: Glossary

See [5] for additional discussion of literate programming.

This is a C5-DEC report template that is used by the C5-DEC CAD to generate Common Criteria Evaluation Technical Reports (ETR). The C5-DEC report generation solution relies on specification languages and a series of technologies, with the main ones being Markdown, YAML, LaTeX, Pandoc, Quarto, spreadsheets (ods/xlsx, alternatively plain CSV), and Python.

Here is a footnote reference,[1] and another.[2]

This paragraph won't be part of the note, because it isn't indented.

[1] Here is the footnote.

[2] Here's one with multiple blocks.

Subsequent paragraphs are indented to show that they belong to the previous footnote.

```
{ some.code }
```

The whole paragraph can be indented, or just the first line. In this way, multi-paragraph footnotes work like multi-paragraph list items.

Chapter 2

Test section in the same file

Some text

Chapter 3

Change log

Version	Date	Author	Changes
`0.1`	2024-09-14 00:00:00	ALAB	First version of C5-DEC DocEngine auto-table-generating code
`0.2`	2024-09-14 00:00:00	ALAB	• add scripts • add input and generated-input folders • add **formatted content** and math notation $e = mc^2$

Table 3.1: ICT change log

Chapter 4

Analysis

Here we demonstrate some of the benefits and capabilities of using the C5-DEC DocEngine to publish via Quarto.

4.1 Math

ADBox main target will be anomaly-detection in time-series. We recall that a univariate time-series is a sequence of real values

$$\vec{x} = (x_1, .., x_n) \in R^n$$

Similarly, a multivariate time-series sequence of real vectors

$$\overrightarrow{X} = (\vec{x}_1, .., \vec{x}_n) \in \mathbb{R}^{n \times k}$$

where n is the maximum length of timestamps, and k is the number of features in the input.

4.2 Diagrams

4.3 Code snippets

4.3.1 Some code in R

```
library(tidyverse)
library(palmerpenguins)
penguins |>                                                    ①
  mutate(                                                      ②
    bill_ratio = bill_depth_mm / bill_length_mm,
    bill_area  = bill_depth_mm * bill_length_mm
  )
```

① Take `penguins`, and then,
② add new columns for the bill ratio and bill area.

4.3.2 Some code in Python

```
def get_all_submenus(self):
        """Get all submenus (also nested) of a menu as objects.

        :return: List of all submenus (and its submenus) in a menu
        :rtype: list
        """
        all_submenus = list(self.submenus.values())
        index = 0
        while index < len(all_submenus):
            cur_menu = all_submenus[index]
            cur_submenus = list(cur_menu.submenus.values())
            all_submenus.extend(cur_submenus)
            index += 1
        return all_submenus
```

4.4 Import section

Some random text

Chapter 5

Summary

In summary, this book has no content whatsoever.

Chapter 6

References

[1] "ISO/IEC 15408-1: Common Criteria for Information Technology Security Evaluation - Part 1: introduction and general model," International Organization for Standardization; International Electrotechnical Commission, Geneva, CH, Standard, Apr. 2017.

[2] "ISO/IEC 15408-1: Common Criteria for Information Technology Security Evaluation - Part 2: security functional components," International Organization for Standardization; International Electrotechnical Commission, Geneva, CH, Standard, Apr. 2017.

[3] "ISO/IEC 15408-1: Common Criteria for Information Technology Security Evaluation - Part 3: security assurance requirements," International Organization for Standardization; International Electrotechnical Commission, Geneva, CH, Standard, Apr. 2017.

[4] "ISO/IEC 18045: Common Criteria for Information Technology Security Evaluation - common evaluation methodology," International Organization for Standardization; International Electrotechnical Commission, Geneva, CH, Standard, Apr. 2017.

[5] D. E. Knuth, "Literate programming," *Comput. J.*, vol. 27, no. 2, pp. 97–111, May 1984, doi: 10.1093/comjnl/27.2.97.