CASS 61508 & 62061 Workshop

Overview of the CASS IEC 61508 and IEC 62061 Templates

T6A Members

IEC 61508 CASS Templates

- What are Targets of Evaluation (TOEs)?

- CASS-508-FSM for *Functional Safety Management.*

- CASS-508-SLC for the *Safety Lifecycle.*

- CASS-508-SUB for the *Subsystems* and / or *Elements.*

- CASS-508-SYS for the *Safety-related System.*

- CASS-508-SW for any *Full Variability Language* (FVL) software.

- CASS-508-PLC for any PLC with *Limited Variability Language* (LVL) software.

IEC 62061 CASS Templates

- What are Targets of Evaluation (TOEs)?
- CASS-061 for FSM, hardware and lifecycle (some software)!
- CASS-508-PLC for any PLC with *Limited Variability Language* (LVL) software.

CASS
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Why The CASS Templates Exist

- To support in the assessment of functional safety.

- Must be available before project start!

- To demonstrate compliance with IEC 61508 or related standard.

- Each functional safety standard has a lot of requirements (guide).

- Open to all and free-of-charge.

- Transparent methodology.

- Required by UKAS (accredited certification).

NOTE: Templates cover IEC, EN, and BS EN variants.

Rigor and Competence

- CASS templates reliant on the competence of the assessor!
- CASS templates can be used for any level of rigor.
  - Full FSA's.
  - Full assessments of functional safety.
  - Gap analysis of requirements.
  - Simple checklist of requirements (buying an asset).
- The rigor of any assessment must increase commensurate with the SIL.
- CASS templates must be used with a copy of the standard.
- CASS templates must be used by competent persons.

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Template Location

- Where are the templates (https://61508.org/downloads/)?

- How can I find them (search)?

- How do I know the templates have been updated?

- CASS membership.

TOE Walkthrough

- Walkthrough CASS-508-SUB/PLC NOTES….
- We'll now cover an example TOE for CASS-508-SUB (TOE 2)….
    - With a comparison TOE for CASS-508-SW (TOE 4)….
- We'll now cover an example TOE for CASS-508-PLC (TOE 10)….
    - With a quick stop at CASS-508-PLC (TOE 16a)….
- Walkthrough CASS-061 template NOTES….
- We'll now cover an example TOE for CASS-061 (TOE 6)….
    - With a quick stop at CASS-061 (TOE 19)….

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Any Questions?

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What's next....

Slot	Start Time	Paper	Workshop	Finish Time
-	12:25	LUNCH BREAK AND NETWORKING (Restaurant / Oak Room)		13:25
7	13:25	Slot A-7: Functional Safety and Artificial Intelligence	Slot B-7: CASS **61511** Workshop	13:55
8	14:00	Slot A-8: Black Box Testing for Functional Safety		14:30

We would be more than happy to discuss membership with you (https://61508.org/cass/)