TEA Assurance Case Sprint - A Practical Workshop Guide

Overview of the Process

- **Session 1:** Define the scope of the assurance case → understand TEA and set goals and contexts
- **Session 2:** Structure the argument → identify draft claims and strategies
- **Session 3:** Identify evidence and gaps → build a robust and justified argument

SESSION 1: Define the scope of the assurance case

- **Pre-requisites:** Read TEA introduction in our TEA learning modules.

- **Session plan**:

  - Ensure all team members understand the TEA method. Discuss assurance case structure and review **core elements**: goal, property claims, strategies, evidence, and attributes (e.g. context).
    - Why are we building an assurance case?
    - What distinguishes the elements?
  - Jointly define a **goal claim** and **contexts** based on your project, system, solution, or technology.
  - Onboard members to the **TEA platform**: Create Logins, review the "How to" guide.
    - Assign at least one technical user to record the assurance case in the TEA builder. Cases can be shared directly with multiple users.

✅ **Primary Objective:** onboard team into the TEA platform and define scope for an assurance case**.**

SESSION 2: Building the argument structure

- **Pre-requisites:** Reflect on the goal claim defined in session 1 and consider core attributes associated with the goal.

- **Session plan**:

  - Re-read the **"Claims as Propositions"** box in the TEA introduction.

- Together as a team, **brainstorm property claims** that support the goal claim.
- Review claims and group them into **strategies** for structure. Helpful prompts:
  - Are claims **clearly phrased as propositions**?
  - Are claims **necessary & jointly sufficient** for the goal claim?
  - Are they **suitable** requirements for the strategy?
  - Can the claims be **evidenced** (in general, not by you now)
  - Identify **gaps** where further claims are needed.

✅ **Primary Objective:** Develop an initial set of **property claims** structured into strategies.

SESSION 3: Linking Evidence & Identifying Gaps

◆ **Pre-requisites:** Ask for commentary by an external case reviewer.

◆ **Session plan**:

- **Review & refine** goal claim, property claims, strategies.
  - Do you need to add any justifications or assumptions?
- **Link evidence to parent claims** by identifying available reports, data, validation studies, completed standards etc.
  - Do you have existing evidence? If not, what sort of evidence could you gather at key stages of your system or project's lifecycle?
- Discuss any gaps and develop a plan for how to generate missing evidence.
  - Where do we **lack evidence (existing or planned)**? How could we generate it?
  - If we had this evidence, would it be **sufficient** to support the claim?
  - How can we **adapt** the project roadmap to evidence X property claim?

✅ **Outcome:** Have an initial draft of a complete argument, and/or a clear strategy for how to develop this draft (e.g. identifying gaps).