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Goal (G0, ACAS Xu satisfies security requirements)

|- Context (C0, Description of ACAS Xu)

|- Context (C1, Security Requirements are requirements about protecting the system from malicious entities)

|- Justification (J0, The argumentation is based on satisfaction of Security Requirements)

|- Assumption (A0, System SRS are complete, adequate, and consistent)

|- Strategy (S0, Argue through asset protection and secure development requirements)

|- Goal (G1, ACAS Xu satisfies the asset protection requirements)

|- Assumption (A1, Asset inventory is established)

|- Strategy (S1, Argue through the different stages of the system development life cycle)

|- Goal (G3, Asset protection requirements are met during the architecture design phase)

|- Context (C2, Description of the ACAS Xu architecture)

|- Strategy (S2, Argue through deriving security threats from Security Requirements)

|- Justification (J1, Detection and mitigation of threats fulfill Security Requirements)

|- Goal (G5, ACAS Xu architecture is protected against identified security threats)

|- Assumption (A2, All relevant threats have been identified)

|- Strategy (S3, Argue over each security threat)

|- UndevelopStantiated Goal (G0.X, ACAS Xu architecture is protected against STX)

|- Goal (G6, ACAS Xu architecture is validated) [UndevelopStantiated]

|- Context (C3, Description of ACAS Xu architecture model)

|- Assumption (A3, ACAS Xu architecture model is well defined in formal method)

|- Undeveloped Goal (G4, Asset protection requirements are met during other phases)

|- Goal (G2, ACAS Xu satisfies secure development requirements) [UndevelopStantiated]

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\*\*Details:\*\*

- \*\*1st Level:\*\* Main goal G0 describes the overarching goal that ACAS Xu satisfies security requirements.

- \*\*2nd Level:\*\* Strategy S0 supports G0 by arguing through asset protection and secure development, which branches into G1 and G2 goals.

- \*\*3rd and deeper Levels:\*\* Further develop the strategies and goals nested within each other to address different aspects of the security requirements, from asset protection during system design (G3, G4) to directly confronting security threats (G5 and G6).

- \*\*Undeveloped and Uninstantiated Marks\*\* indicate areas requiring additional specification or development, marked accordingly within the hierarchy [UndevelopStantiated for both undeveloped and uninstantiated, and Undeveloped for goals requiring further development).

The tree structure demonstrates the hierarchical dependency of goals, strategies, and support elements like contexts, justifications, and assumptions, integral to a structured argumentation process in creating assurance cases.