Sure, here's the hierarchical tree structure for the security case of ACAS Xu (Airborne Collision Avoidance System Xu) based on the provided predicates and using dashes to denote different levels:

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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 ACAS Xu from malicious entities)

- Justification (J0, The argumentation is based on the satisfaction of security requirements)

- Assumption (A0, System security requirements 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)

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

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

- Strategy (S3, Argue over each security threat)

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

- Goal (G6, ACAS Xu architecture is validated)

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

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

- Justification (J1, Detection and mitigation of threats fulfill security requirements)

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

- Goal (G2, ACAS Xu satisfies secure development requirements)

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Key points to note:

- Uninstantiated elements and placeholders are indicated by the curly braces which need to be filled.

- Some elements (e.g., G2, G4, G6, G0.X) are noted as undeveloped or undevelopStantiated.

- "ACAS Xu" replaces placeholders in Goals and Contexts as needed.

The tree shows how goals are supported by strategies and how assumptions, contexts, and justifications provide additional information to support the assurance case.