To represent the security case for ACAS Xu (Airborne Collision Avoidance System Xu) using the provided security case pattern and to include the placeholders replaced with the system's specific details, observe the hierarchical tree structure below:

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- Goal (G0, ACAS Xu satisfies security requirements)

- Context (C0, Description of ACAS Xu)

- Context (C1, SR are requirements about protecting the system from malicious entities)

- Justification (J0, The argumentation is based on satisfaction of SRs)

- Assumption (A0, ACAS Xu 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 SRs)

- 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) (Uninstantiated, UndevelopStantiated)

- Goal (G6, ACAS Xu architecture is validated) (Uninstantiated, UndevelopStantiated)

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

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

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

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

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### Explanation

1. \*\*Top-Level Goal (G0)\*\*: The main goal, asserting that ACAS Xu meets all security requirements, is supported by a strategy (S0) which is subdivided further to argue through asset protection and secure development requirements.

2. \*\*Strategy (S0)\*\*: This divides into two subordinate goals, G1 and G2. G1 focuses on asset protection which is further developed through several connected sub-goals and strategies detailed at lower levels.

3. \*\*Uninstantiated/Undeveloped Goals\*\*: Certain goals such as G0.X, G2, and G6 are marked as Uninstantiated and UndevelopStantiated, indicating placeholders that need detailed instantiation and development.

4. \*\*Assumptions and Contexts\*\*: These elements provide necessary conditions and the context under which the security case holds.

5. \*\*Undeveloped (G4)\*\*: This goal lacks further development in the current structure, illustrating an area for potential future expansion or detailing.

This constructed hierarchy provides a structured approach to navigating through the security requirements and mitigations intended for ACAS Xu, with clear provision for expanding sections that are currently underdeveloped or uninstantiated.