To develop the security case for ACAS Xu (Airborne Collision Avoidance System Xu) using the security case pattern provided, we will instantiate the placeholders and remove the uninstantiated decorators accordingly. Here is the instantiated assurance case tree for ACAS Xu:

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- G0: ACAS Xu satisfies security requirements

- C0: Description of ACAS Xu

- C1: Security requirements (SR) are requirements about protecting the system from malicious entities

- J0: The argumentation is based on the satisfaction of SRs

- A0: System SRS are complete, adequate, and consistent

- S0: Argue through asset protection and secure development requirements

- G1: ACAS Xu satisfies the asset protection requirements

- A1: Asset inventory is established

- S1: Argue through the different stages of the system development lifecycle

- G3: Asset protection requirements are met during the architecture design phase

- C2: Description of the architecture

- S2: Argue through derivating security threats from SRs

- J1: Detection and mitigation of threats fulfill SRs

- G5: ACAS Xu architecture is protected against identified security threats

- A2: All relevant threats have been identified

- S3: Argue over each security threat

- G0.X: ACAS Xu architecture is protected against STX

- G4: Asset protection requirements are met during other phases (undeveloped)

- G2: ACAS Xu satisfies secure development requirements (undeveloped)

- G6: ACAS Xu architecture is validated (undeveloped)

- C3: Description of ACAS Xu architecture model

- A3: ACAS Xu architecture model is well defined in formal method

```

This assurance case tree is structured in a hierarchical manner, starting from the top-level goal (G0) and branching out into child nodes that support and substantiate the structured reasoning toward ACAS Xu meeting its security requirements. Each node in the tree relates directly back to the predicates and logical structure you outlined in your provided security case pattern.