To create the security case for ACAS Xu based on the provided security case pattern and instantiate the placeholders appropriately, the structure will be developed and displayed using a hierarchical tree format. Placeholders (`{}`) will be replaced with "ACAS Xu" and relevant specifics wherever applicable.

### Security Case for ACAS Xu

- \*\*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, "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 architecture for ACAS Xu")\*

- \*\*Strategy (S2, "Argue through derivating security threats from SRs")\*\*

- \*\*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")\*\*

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

- \*Undeveloped\*

- \*\*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")\*

- \*UndevelopStantiated\*

- \*Justification (J1, "Detection and mitigation of threats fulfill SRs")\*

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

- \*Undeveloped\*

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

- \*UndevelopStantiated\*

In this structure:

- Each goal, strategy, context, assumption, and justification is properly nested under its respective parent based on the "SupportedBy" and "IncontextOf" predicates.

- Placeholders within descriptions were replaced with specifics like "ACAS Xu."

- Uninstantiated and UndevelopStantiated decorators have been duly noted next to the respective elements, pointing out their need for further instantiation or both instantiation and development, respectively.

- The undeveloped decorator highlights areas like "G4" that need further development.

This hierarchical illustration simplifies understanding the assurance case structure and specifically how various elements are associated.