Sure, let's replace the placeholders with relevant information based on the domain information provided and structure the security case for ACAS Xu. Here is the hierarchical tree format representation:

- \*\*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)\*\*

- \*\*SupportedBy (S0, Argue through asset protection and secure development requirements)\*\*

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

- \*\*Assumption (A1, Asset inventory is established)\*\*

- \*\*SupportedBy (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)\*\*

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

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

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

- \*\*SupportedBy (S3, Argue over each security threat)\*\*

- \*\*Goal (G0.1, ACAS Xu architecture is protected against ST1: Tampering)\*\*

- \*\*Goal (G0.2, ACAS Xu architecture is protected against ST2: Spoofing)\*\*

- \*\*Goal (G0.3, ACAS Xu architecture is protected against ST3: Elevation of privileges)\*\*

- \*\*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)\*\*

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

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

This hierarchical structure represents the security case for ACAS Xu following the given security case pattern.