Below is the security case derived for ACAS Xu using the given security case pattern and instantiated with details from the provided domain information:

```plaintext

G0: ACAS Xu satisfies security requirements.

-- C0: Description of ACAS Xu.

-- C1: SR are requirements about protecting the system from malicious entities.

-- J0: The argumentation is based on 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 life cycle.

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

----- C2: Description of the ACAS Xu architecture.

----- S2: Argue through deriving security threats from SRs.

------ G5: ACAS Xu architecture is protected against identified security threats (STs).

------- A2: All relevant threats have been identified.

------- S3: Argue over each security threat.

-------- G0.1: ACAS Xu architecture is protected against ST1.

-------- G0.2: ACAS Xu architecture is protected against ST2.

-------- G0.3: ACAS Xu architecture is protected against ST3.

------ G6: ACAS Xu architecture is validated. (undeveloped)

------- C3: Description of ACAS Xu architecture model.

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

----- J1: Detection and mitigation of threats fulfill SRs.

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

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

```

The above tree structure representation illustrates the hierarchical relationships and how the different elements support each other in the assurance case for ACAS Xu, based on the instantiated security case pattern.