Here is the security case for the Instant Messaging (IM) software, created by instantiating the provided security case pattern with the specific domain information for IM software:

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- G1: The IM software is acceptably secure in the given context.

- C1: Definition and description of IM software

- C2: Description of context for IM software (e.g., usage environment, threat model)

- C3: Definition of what constitutes "acceptably secure"

- S1: Argument that the IM software's critical assets are under protection.

- J1: Protection of software assets supports that IM software is acceptably secure.

- G2: All identified IM software critical assets are protected.

- S2: Respective arguments for each of the IM software's critical assets.

- C4: List of IM software critical assets (e.g., Registration information, Registration process, User account information, Authentication information, Login process, Chat logs)

- J2: Relationship between assets is clear and can be argued separately.

- G3: Registration information is protected.

- S3: Argument based on the type of asset (Process)

- C5: List of software critical asset types in PEDD

- J3: Types of software assets are according to PEDD

- G4: Registration information which belongs to Process is protected. (undeveloped)

- G3: Registration process is protected.

- S3: Argument based on the type of asset (Process)

- C5: List of software critical asset types in PEDD

- J3: Types of software assets are according to PEDD

- G4: Registration process which belongs to Process is protected. (undeveloped)

- G3: User account information is protected.

- S3: Argument based on the type of asset (Data Storage)

- C5: List of software critical asset types in PEDD

- J3: Types of software assets are according to PEDD

- G4: User account information which belongs to Data Storage is protected. (undeveloped)

- G3: Authentication information is protected.

- S3: Argument based on the type of asset (Data Storage)

- C5: List of software critical asset types in PEDD

- J3: Types of software assets are according to PEDD

- G4: Authentication information which belongs to Data Storage is protected. (undeveloped)

- G3: Login process is protected.

- S3: Argument based on the type of asset (Process)

- C5: List of software critical asset types in PEDD

- J3: Types of software assets are according to PEDD

- G4: Login process which belongs to Process is protected. (undeveloped)

- G3: Chat logs are protected.

- S3: Argument based on the type of asset (Data Storage)

- C5: List of software critical asset types in PEDD

- J3: Types of software assets are according to PEDD

- G4: Chat logs which belongs to Data Storage is protected. (undeveloped)

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This hierarchical tree structure captures the argumentation for establishing the security case of IM software based on the instantiated pattern.