Here is the instantiated security case for the Instant messaging (IM) software based on the provided pattern, displayed in a hierarchical tree format using dashes (-):

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G1: The Instant Messaging (IM) software is acceptably secure in the communication system.

- C1: Definition and description of Instant Messaging (IM) software

- C2: Definition and description of communication system

- C3: Definition of acceptably secure

- S1: Argument that software assets are under protection

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

- G2: All identified software critical assets are protected

- S2: Respective arguments of software critical assets

- C4: List of Instant Messaging (IM) software critical assets

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

- G3: Registration information is protected

- S3: Argument of the type which the software critical asset belongs to

- C5: List of software critical asset types in PEDD

- J3: Types of software assets are according to PEDD

- G4: Registration information which belongs to Data Storage is protected

- (Implement detailed argument and evidence here)

- G3: Registration process is protected

- S3: Argument of the type which the software critical asset belongs to

- 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

- (Implement detailed argument and evidence here)

- G3: User account information is protected

- S3: Argument of the type which the software critical asset belongs to

- 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

- (Implement detailed argument and evidence here)

- G3: Authentication information is protected

- S3: Argument of the type which the software critical asset belongs to

- 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

- (Implement detailed argument and evidence here)

- G3: Login process is protected

- S3: Argument of the type which the software critical asset belongs to

- 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

- (Implement detailed argument and evidence here)

- G3: Chat logs are protected

- S3: Argument of the type which the software critical asset belongs to

- C5: List of software critical asset types in PEDD

- J3: Types of software assets are according to PEDD

- G4: Chat logs which belong to Data Exchange are protected

- (Implement detailed argument and evidence here)

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This hierarchical tree format breaks down the top-level security goal (G1) into a structured argument, providing context and supporting evidence to establish the case for the Instant Messaging (IM) software's security.