Below is the instantiated security case for the Instant Messaging (IM) software in a hierarchical tree format based on the given security case pattern:

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- G1: Instant Messaging software is acceptably secure in given system

- C1: Definition and description of Instant Messaging software

- C2: Definition and description of Instant Messaging system

- C3: Definition of acceptably secure

- S1: Argument that Instant Messaging software assets are under protection

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

- G2: All identified Instant Messaging software critical assets are protected

- S2: Respective arguments of Instant Messaging software critical assets

- C4: List of Instant Messaging 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 Registration information 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 type is protected

- G3: Registration process is protected

- S3: Argument of the type which the Registration process 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 type is protected

- G3: User account information is protected

- S3: Argument of the type which the User account information 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 type is protected

- G3: Authentication information is protected

- S3: Argument of the type which the Authentication information 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 Exchange type is protected

- G3: Login process is protected

- S3: Argument of the type which the Login process 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 type is protected

- G3: Chat logs are protected

- S3: Argument of the type which the Chat logs belong 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 Storage type are protected

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In this security case for the Instant Messaging (IM) software, placeholders in the pattern were filled in with concrete information specific to IM software. Each critical asset (registration information, registration process, user account information, authentication information, login process, chat logs) is associated with their respective type according to the PEDD classification.