Sure, here is the instantiated security case for an Instant Messaging (IM) software based on the provided security case pattern, using the domain details for IM software. The tree will be represented in a hierarchical format.

@Assurance\_case

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G1: Instant messaging software is acceptably secure in instant messaging system

- 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 IM software critical assets (Registration information, Registration process, User account information, Authentication information, Login process, Chat logs)

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

- G3.0: Registration information is protected

- G3.1: Registration process is protected

- G3.2: User account information is protected

- G3.3: Authentication information is protected

- G3.4: Login process is protected

- G3.5: 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 (Process, Environment Entity, Data Exchange, Data Storage)

- J3: Types of software assets are according to PEDD

- G4.0: Registration information which belongs to Data Storage is protected

- G4.1: Registration process which belongs to Process is protected

- G4.2: User account information which belongs to Data Storage is protected

- G4.3: Authentication information which belongs to Data Storage is protected

- G4.4: Login process which belongs to Process is protected

- G4.5: Chat logs which belongs to Data Storage are protected

- C1: Definition and description of Instant Messaging software

- C2: Definition and description of Instant Messaging system

- C3: Definition of acceptably secure

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@End\_Assurance\_case

In this security assurance case, we expanded the goals, strategies, and contexts based on the information about the IM software, focusing specifically on its critical assets as identified within the domain information, and mapped each asset to the classification types as per the PEDD model (Process, Environment Entity, Data Exchange, Data Storage). Justifications are applied to assure the argument between the security structure and its effectiveness.