To create a security case for Instant Messaging (IM) software based on the provided security case pattern, we'll instantiate the placeholders and construct the hierarchical tree structure.

\*\*Instant Messaging (IM) Security Case\*\*

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- Goal (G1, IM software is acceptably secure in Communication System)

- Context (C1, Definition and description of IM software)

- Context (C2, Definition and description of Communication System)

- Context (C3, Definition of acceptably secure)

- Strategy (S1, Argument that IM software assets are under protection)

- Justification (J1, Protection of IM software assets supports that the software is acceptably secure)

- Goal (G2, All identified IM software critical assets are protected)

- Strategy (S2, Respective arguments of IM software critical assets)

- Context (C4, List of IM software critical assets)

- Justification (J2, Relationship between IM software critical assets is clear and can be argued separately)

- Goal (G3.1, IM software critical asset 'User Data' is protected)

- Strategy (S3.1, Argument of the type which the software critical asset 'User Data' belongs to)

- Context (C5, List of IM software critical asset types in PEDD)

- Justification (J3, Types of IM software assets are according to PEDD)

- Goal (G4.1, IM software critical asset 'User Data' which belongs to 'Personal Information' is protected)

- Goal (G3.2, IM software critical asset 'Messages' is protected)

- Strategy (S3.2, Argument of the type which the software critical asset 'Messages' belongs to)

- Context (C5, List of IM software critical asset types in PEDD)

- Justification (J3, Types of IM software assets are according to PEDD)

- Goal (G4.2, IM software critical asset 'Messages' which belongs to 'Communication Data' is protected)

- Goal (G3.3, IM software critical asset 'Contact List' is protected)

- Strategy (S3.3, Argument of the type which the software critical asset 'Contact List' belongs to)

- Context (C5, List of IM software critical asset types in PEDD)

- Justification (J3, Types of IM software assets are according to PEDD)

- Goal (G4.3, IM software critical asset 'Contact List' which belongs to 'Personal Information' is protected)

- Goal (G3.4, IM software critical asset 'Connection Logs' is protected)

- Strategy (S3.4, Argument of the type which the software critical asset 'Connection Logs' belongs to)

- Context (C5, List of IM software critical asset types in PEDD)

- Justification (J3, Types of IM software assets are according to PEDD)

- Goal (G4.4, IM software critical asset 'Connection Logs' which belongs to 'Usage Data' is protected)

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I've instantiated the placeholders and constructed the hierarchical tree structure, adhering to the given predicate rules. This security case proves that the IM software is acceptably secure within the communication system by ensuring all its critical assets are protected, classified, and argued separately.