Here is the derived security case for Instant Messaging (IM) software based on the given security case pattern. The placeholders {} have been replaced with system-specific or concrete information.

```

G1: IM software is acceptably secure in the messaging system

- C1: Definition and description of Instant Messaging software

- C2: Definition and description of messaging system

- C3: Definition of acceptably secure

- S1: Argument that IM software 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 of IM software critical assets

- C4: List of IM software critical assets

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

- G3 (1st instance): User data 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 data which belongs to personal information is protected

- (Further development needed)

- G3 (2nd instance): Chat history 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: Chat history which belongs to sensitive information is protected

- (Further development needed)

- G3 (3rd instance): File attachments 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: File attachments which belong to data files are protected

- (Further development needed)

- G3 (4th instance): Contact 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: Contact information which belongs to personal identifiers is protected

- (Further development needed)

```

Here's the hierarchical tree format using dashes to denote different levels:

```

- G1: IM software is acceptably secure in the messaging system

- C1: Definition and description of Instant Messaging software

- C2: Definition and description of messaging system

- C3: Definition of acceptably secure

- S1: Argument that IM software 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 of IM software critical assets

- C4: List of IM software critical assets

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

- G3 (1st instance): User data 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 data which belongs to personal information is protected

- (Further development needed)

- G3 (2nd instance): Chat history 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: Chat history which belongs to sensitive information is protected

- (Further development needed)

- G3 (3rd instance): File attachments 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: File attachments which belong to data files are protected

- (Further development needed)

- G3 (4th instance): Contact 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: Contact information which belongs to personal identifiers is protected

- (Further development needed)

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