Here is the instantiated security case for Instant Messaging (IM) software based on the provided security case pattern:

### Level 1

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

- \*\*C1:\*\* Definition and description of IM software.

- \*\*IM software:\*\* Software for real-time text transmission over the internet.

- \*\*C2:\*\* Definition and description of the communication system.

- \*\*Communication system:\*\* A system facilitating user-to-user communication.

- \*\*C3:\*\* Definition of acceptably secure.

- \*\*Acceptably secure:\*\* Meets specified security requirements and standards.

- \*\*S1:\*\* Argument of that software assets are under protection.

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

### Level 2

- - \*\*G2:\*\* All identified IM software critical assets are protected.

- \*\*S2:\*\* Respective arguments of IM software critical assets.

- \*\*C4:\*\* List of IM software critical assets.

- \*\*IM software critical assets:\*\* User data, Message logs, Encryption keys, Connection sessions.

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

- - \*\*G3:\*\* 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.

- \*\*User data:\*\* Protected under Data Security.

- \*\*J3:\*\* Types of software assets are according to PEDD.

- \*\*G4:\*\* User data which belongs to Data Security is protected. (inactive)

- - \*\*G3:\*\* Message logs are protected.

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

- \*\*C5:\*\* List of software critical asset types in PEDD.

- \*\*Message logs:\*\* Protected under Data Security.

- \*\*J3:\*\* Types of software assets are according to PEDD.

- \*\*G4:\*\* Message logs which belong to Data Security are protected.

- - \*\*G3:\*\* Encryption keys are protected.

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

- \*\*C5:\*\* List of software critical asset types in PEDD.

- \*\*Encryption keys:\*\* Protected under Key Management.

- \*\*J3:\*\* Types of software assets are according to PEDD.

- \*\*G4:\*\* Encryption keys which belong to Key Management are protected.

- - \*\*G3:\*\* Connection sessions are protected.

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

- \*\*C5:\*\* List of software critical asset types in PEDD.

- \*\*Connection sessions:\*\* Protected under Session Management.

- \*\*J3:\*\* Types of software assets are according to PEDD.

- \*\*G4:\*\* Connection sessions which belong to Session Management are protected (undeveloped).