Here is the security case for Instant Messaging (IM) software represented in a hierarchical tree format using dashes (-) to denote different levels.

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- G1: IM software is acceptably secure in the communications system.

- C1: Definition and description of IM software.

- C2: Definition and description of communications system.

- C3: Definition of acceptably secure.

- S1: Argument that IM software assets are under protection.

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

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

- S2: Respective arguments for IM software critical assets.

- C4: List of IM software critical assets.

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

- G3: User Data is protected.

- S3: Argument of the type which the User Data belongs to.

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

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

- G4: User Data which belongs to Confidential is protected.

- G3: Message Content is protected.

- S3: Argument of the type which the Message Content belongs to.

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

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

- G4: Message Content which belongs to Sensitive is protected.

- G3: File Attachments are protected.

- S3: Argument of the type which the File Attachments belong to.

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

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

- G4: File Attachments which belong to Confidential are protected.

- G3: Connection Metadata is protected.

- S3: Argument of the type which the Connection Metadata belongs to.

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

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

- G4: Connection Metadata which belongs to Sensitive is protected.

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In this hierarchical structure:

- G1 is the top-level goal stating that the IM software is acceptably secure within the communications system.

- Supporting arguments and contexts are linked logically to form a coherent structure.

- Critical IM software assets and their relevant types from PEDD are specifically identified and argued in-depth.

addCode

addText