Based on the specified security case pattern and the given domain information about Instant Messaging (IM) software, here's the structured security case built through a hierarchical tree:

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- Goal (G1, "IM software is acceptably secure in interactive systems")

- Context (C1, "IM software used for information exchange, with internal and external interactions")

- Context (C2, "Interactive systems including user devices and servers")

- Context (C3, "Acceptably secure means all critical assets are effectively protected against known threats")

- SupportedBy

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

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

- SupportedBy

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

- Context (C4, "Critical assets include: Registration information, Registration process, User account information, Authentication information, Login process, Chat logs")

- SupportedBy

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

- Justification (J2, "Clear relationship between critical assets allows for separate arguments")

- SupportedBy

- Goal (G3, "IM software critical asset is protected")

- HasMultiplicity

- Strategy (S3, "Argument for the type which the IM software critical asset belongs to")

- Context (C5, "Types of assets include Process, Environment Entity, Data Exchange, Data Storage per PEDD classification")

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

- SupportedBy

- Goal (G4, "IM software critical asset, which belongs to Data is protected")

- Goal (G4, "IM software critical asset, which belongs to Process is protected")

- Goal (G4, "IM software critical asset, which belongs to Environment Entity is protected")

- Goal (G4, "IM software critical asset, which belongs to Data Exchange is protected")

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This structure addresses the multiple critical aspects of IM software by grouping the protection of each asset under its respective type. Each goal and strategy is well supported by contexts and justifications that provide a sound basis for the argumentation structure, ensuring comprehensive coverage of essential safeguards for the security of the IM software.