Sure! Below is a security case for Instant Messaging (IM) software displayed in a hierarchical tree format using dashes to represent different levels in Goal Structuring Notation (GSN):

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- Goal: Ensure the Security of Instant Messaging (IM) Software

- Strategy: Mitigate Security Risks

- Goal: Secure Communication Channels

- Solution: Implement End-to-End Encryption

- Solution: Use Secure HTTPS Protocols

- Context: Adherence to Industry Standard Encryption (e.g., AES-256)

- Goal: Protect User Data

- Solution: Secure Storage Mechanisms (e.g., Encrypted Databases)

- Solution: Strict Access Controls (e.g., Role-Based Access Control)

- Context: Compliance with Data Protection Regulations (e.g., GDPR)

- Goal: Ensure Software Integrity

- Solution: Code Signing Deployment

- Solution: Regular Software and Security Updates

- Context: Source Code Review and Static Analysis

- Goal: Guard Against Unauthorized Access

- Solution: Multi-Factor Authentication (MFA)

- Solution: Periodic User Activity Logging and Review

- Context: Adherence to Authentication Best Practices (e.g., NIST Guidelines)

- Goal: Mitigate Social Engineering Risks

- Solution: User Training on Phishing and Security Practices

- Solution: Anti-Phishing Mechanisms

- Context: Regular Security Awareness Programs

- Strategy: Continuous Monitoring and Incident Response

- Goal: Real-time Intrusion Detection

- Solution: Intrusion Detection Systems (IDS)

- Solution: Anomaly Detection Algorithms

- Context: Integration with Security Information and Event Management (SIEM)

- Goal: Rapid Incident Response

- Solution: Predefined Incident Response Plans

- Solution: Incident Response Team Availability

- Context: Regular Incident Response Drills and Updates

- Strategy: Assurance and Compliance

- Goal: Regular Security Audits

- Solution: Third-party Security Audits

- Solution: Internal Security Audits and Penetration Testing

- Context: Compliance with Applicable Security Standards and Regulations (e.g., ISO 27001)

- Goal: Security Certification

- Solution: Obtain Security Certifications (e.g., SOC 2, ISO 27001)

- Solution: Maintain Certification Requirements

- Context: Ongoing Compliance and Certification Reviews

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This hierarchical tree structure captures the main goals of securing an Instant Messaging (IM) software, the strategies to achieve these goals, the solutions to be implemented, and the context within which these solutions operate.