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<b>ON THE BEHALF OF:</b>	TStephens Information Security Committee
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# TStephens LLC

## Risk Scenario:

# SecureMail Gateway

# Risk Scenario: SecureMail Gateway (Sample)

## Purpose

To identify and evaluate potential risks associated with the SecureMail Gateway used to manage encrypted email communication for internal users and external clients. The goal was to assess threats and vulnerabilities to ensure confidentiality, integrity, and availability of sensitive messaging data.

## Methodology

TS Security Solutions performed a qualitative risk assessment using stakeholder interviews, system architecture reviews, and a walkthrough of current technical controls. Risks were scored based on Likelihood, Impact, and Overall Risk Rating. Controls were mapped to NIST 800-53 guidelines where applicable.

## Findings:

- Encryption Configuration Risk:** Encryption at rest was not enabled for archived messages.
- Insufficient Logging:** No centralized logging or alerting was in place to monitor suspicious activity.
- Limited Access Controls:** User provisioning lacked role-based restrictions and periodic reviews.

## Recommendations:

- Implement AES-256 encryption for email data at rest.
- Integrate the SecureMail Gateway with a centralized log management solution (e.g., SIEM).
- Enforce Role-Based Access Control (RBAC) and require biannual access reviews.

## Outcome:

A full risk register was created for the SecureMail Gateway and shared with the IT and compliance teams. Remediation items were prioritized based on business impact and feasibility. Control enhancements were aligned with NIST 800-53 controls AC-2, AU-6, and SC-12.

## Version History

Version	Modified Date	Approved Date	Approved By	Reason/Comments
1.0.0	July 2025		TS Security Solutions	Demo/Internal use