### Privacy & Data Protection Risk Assessment – Insurance Industry

Date: 03/01/2025

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### 1. Executive Summary

#### Overview

This assessment evaluates **privacy and data protection risks** for a **large insurance company** (simulated as State Farm), using **GLBA**, **CCPA**, **and NIST Privacy Framework** compliance principles.

### **Key Findings**

- Data Privacy Gaps No clear opt-out process for data sharing (CCPA risk).
- Access Control Risks Employees have excessive access to customer PII.
- Third-Party Vendor Weaknesses No regular security audits for vendors handling sensitive insurance data.
- Encryption Concerns Some legacy systems store unencrypted PII, increasing data breach risks.
- No Incident Response Plan (IRP) for Data Breaches High risk of regulatory penalties for slow breach response.

#### **Recommended Actions**

- ✓ Implement customer opt-out mechanisms for data sharing (CCPA compliance).
- ✓ Enforce Role-Based Access Control (RBAC) to limit PII exposure.
- ✓ Mandate third-party vendor security audits and compliance monitoring.
- ✓ Encrypt all customer PII in storage and transit.
- ✓ **Develop and test a Data Breach Response Plan** following NIST 800-61 guidelines.

### 2. Business Context & Compliance Overview

### **Company Profile (Simulated – State Farm Insurance)**

- Industry: Insurance (Auto, Home, Life, Business)
- **★ Size:** Large (50,000+ employees, multiple locations)
- Data Processed:
  - Personally Identifiable Information (PII): Name, DOB, SSN, Address
  - Financial Data: Credit history, claims, payments
  - Medical & Claims Records: Accident reports, healthcare data
  - Customer Communication Logs: Calls, emails, online support

## **Relevant Privacy & Data Protection Regulations**

Regulation	Requirement	Applicability to Insurance	
GLBA (Gramm- Leach-Bliley Act)	Requires financial institutions to protect customer PII	Insurance companies must implement strict data security policies	
CCPA (California Consumer Privacy Act)	Gives consumers rights to access, delete, and opt out of data sharing	Insurance companies handling CA residents' data must comply	
NIST Privacy Framework	Provides best practices for privacy risk management	Helps establish data protection and governance policies	

## 3. Privacy & Security Risk Assessment Findings

The following table highlights key **privacy & data protection risks**, their **impact levels**, and **recommended mitigations**.

Privacy Risk Category	Security Gaps Identified	Risk Level	Recommendations	
Customer Data Privacy (GLBA, CCPA)	No clear opt-out process for data sharing	High	Implement an automated opt-out system	
Third-Party Risk Management	Vendors handling PII are not regularly audited	High	Conduct annual security audits for vendors	
Data Retention & Deletion	No automated deletion of expired customer records	High	Enforce data retention policies with auto-deletion	
Encryption & Data Storage	Some legacy systems store PII unencrypted	Critical	Implement full-disk encryption & tokenization	
Access Control & Internal Permissions	Employees have excessive access to PII	High	Apply Role-Based Access Control (RBAC)	
Incident Response & Breach Notification	No structured data breach response plan	Critical	Develop a <b>Data Breach</b> <b>Response Plan</b>	

### 4. Risk Matrix & Data Protection Recommendations

### **Privacy Risk Matrix**

The **risk matrix** categorizes threats based on **likelihood and impact**, helping prioritize risk mitigation efforts.

Risk	Likelihood (1-5)	Impact (1-5)	Overall Risk (L x I)	Mitigation
No customer opt-out mechanism	4	3	12 (Moderate)	Implement CCPA- compliant opt-out system
No security audits for vendors	5	4	20 (High)	Require annual security audits
No encryption on legacy data	5	5	25 (Critical)	Enforce data encryption (AES-256)
Employees have excessive PII access	5	4	20 (High)	Implement Role-Based Access Control (RBAC)
No Incident Response Plan	5	5	25 (Critical)	Develop Data Breach Response Playbook

#### 5. Recommended Remediation Plan

## **✓** Short-Term Fixes (0-3 Months)

- 1. **Develop a Consumer Privacy Policy** Publish a policy explaining data rights and CCPA compliance.
- 2. Restrict Employee Access to PII Enforce Role-Based Access Control (RBAC).
- 3. **Implement Opt-Out Mechanisms** Allow customers to control data sharing preferences.

# Mid-Term Fixes (3-6 Months)

- 1. Encrypt Sensitive Data Implement AES-256 encryption for data at rest.
- 2. Conduct Security Awareness Training Train employees on data protection best practices.
- 3. Begin Third-Party Security Audits Assess vendors handling PII for compliance risks.

# **●** Long-Term Fixes (6-12 Months)

- 1. **Develop a Data Breach Response Plan (IRP)** Prepare for data leaks & cyber incidents.
- 2. **Establish Continuous Compliance Monitoring** Implement tools to track **privacy compliance**.
- 3. **Deploy SIEM & Threat Detection** Monitor real-time threats to **sensitive customer** data.

### 6. Conclusion & Next Steps

This assessment identified key data protection weaknesses in customer privacy, access control, encryption, and vendor risk management. To improve compliance and security, the insurance company must:

- 1. Implement better privacy controls (CCPA & GLBA compliance).
- 2. Reduce unauthorized employee access to customer data.
- 3. Strengthen vendor security audits and data protection policies.
- 4. Develop an Incident Response Plan (IRP) for privacy breaches.
- 5. Encrypt all sensitive customer data using AES-256.
- ★ Next Steps:
- ✓ Implement privacy policies & opt-out mechanisms
- ✓ Develop data encryption & access control policies
- **✓** Test incident response drills for data breaches