

Security Control Compliance Report

Date: October 26, 2023 (Assumed - Please update with actual date)

1. Summary of Findings:

This report summarizes the findings of a review of transaction log entries against a defined set of security controls. The review identified several exceptions, indicating potential weaknesses in the current implementation of these controls. Specifically, violations were found in the areas of Transaction Verification, User Access, and Suspicious Activity monitoring. Two transactions (TX002 and TX005) were found to be compliant with the defined controls. The remaining three transactions (TX001, TX003, and TX004) require immediate attention and remediation.

2. List of Exceptions:

The following exceptions were identified during the review:

- **Transaction ID: TX001**
 - **Reason:** Violates the **Transaction Verification** control. The transaction amount (\$12,000) exceeds the \$10,000 threshold requiring 2FA, but the log indicates `Verified_2FA: False`.
- **Transaction ID: TX003**
 - **Reason:** Violates the **User Access** control. The transaction amount (\$15,000) exceeds \$5,000, but the `Approver_Role` is 'Analyst', which is not authorized to approve transactions of this magnitude.
- **Transaction ID: TX004**
 - **Reason:** Violates the **Suspicious Activity** control. The `Retry_Count` is 4, exceeding the threshold of 3 retries within 24 hours, requiring a manual audit.

3. Recommendations:

Based on the identified exceptions, the following recommendations are made to strengthen security controls and ensure compliance:

- **Transaction Verification (TX001):**

- **Immediate Action:** Investigate why 2FA was not enforced for transaction TX001. Determine if this was a system error, a user override, or a circumvention of the control.
- **Remediation:** Implement stricter enforcement of the 2FA requirement for transactions exceeding \$10,000. This may involve reviewing system configurations, updating code, and providing additional training to users.
- **Monitoring:** Enhance monitoring to detect and alert on transactions exceeding the threshold without proper 2FA verification.
- **User Access (TX003):**
 - **Immediate Action:** Investigate why an Analyst was able to approve transaction TX003. Review user roles and permissions to ensure they align with the defined User Access control.
 - **Remediation:** Restrict Analyst roles from approving transactions exceeding \$5,000. Implement technical controls to enforce these restrictions.
 - **Training:** Provide refresher training to all users, especially Analysts, on the User Access control and their respective approval limits.
- **Suspicious Activity (TX004):**
 - **Immediate Action:** Initiate a manual audit of transaction TX004 within 48 hours, as required by the Suspicious Activity control.
 - **Remediation:** Investigate the root cause of the multiple retries. This could indicate a technical issue, a user error, or a potential fraudulent attempt.
 - **Alerting:** Ensure that alerts are triggered promptly when the retry count exceeds the defined threshold.
- **General Recommendations:**
 - **Regular Control Review:** Conduct regular reviews of all security controls to ensure they remain effective and aligned with evolving threats and business requirements.
 - **Automated Monitoring:** Implement automated monitoring and alerting systems to detect and respond to control violations in real-time.
 - **Documentation:** Maintain comprehensive documentation of all security controls, including their purpose, implementation, and enforcement mechanisms.
 - **Audit Trail:** Ensure a robust audit trail is maintained for all transactions and security-related events.

By implementing these recommendations, the organization can significantly improve its security posture and reduce the risk of future control violations.

