**Security & Compliance Validation Reports**

* **Scope**:
  + Penetration test summaries (external & internal vectors)
  + Secure coding reviews (CI/CD-integrated scans)
  + SDN & NFV attack surface analysis
* **Standards Addressed**:
  + **CAK guidelines**, **GSMA NESAS**, **ISO 27001**, **NIST 800-53**
* **Key Inclusions**:
  + Encryption compliance (e.g., TLS 1.3, AES-256 for data at rest)
  + Multi-factor authentication enforcement
  + Audit trail and log integrity verification
* **Outcome Example**:

“No critical vulnerabilities found. All medium-risk issues remediated. System declared compliant with telco-grade security standards.”

**Test Environment Setup Documentation**

* **Objective**: Ensure environment is reproducible by other teams or auditors.
* **Contents**:
  + Infrastructure topology (Cloud VPC, hybrid setups, container clusters)
  + Data mocks or sanitized Safaricom datasets (SIM provisioning, tower loads)
  + Tools used: Jenkins, Helm charts, Minikube, Grafana
* **Snapshot**:
  + “Test environment simulates 50 cell towers in Nairobi CBD, handling up to 10,000 concurrent connections with SLA triggers.”