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VRF-2026-001

# Verification Report

*Infrastructure Authentication Validation*

Prepared for: [Sample Organization] (Synthetic Engagement)

Prepared by: Vaixus Technologies

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## LABORATORY-ENGINEERED CONSULTING SIMULATION

This report is a fictional, laboratory-generated case study prepared for portfolio and methodology-demonstration purposes. It does not describe a real client, a real organization, or an actual engagement.

## Synthetic Demonstration Notice

This report is a representative demonstration of the Vaixus verification methodology. Organization names, domains, identifiers, and execution timelines have been synthesized to illustrate a typical enterprise engagement. Representative evidence shown throughout this document does not originate from an actual client. The verification process, technical validation, and reporting structure reflect the exact standards used during production consulting engagements.

## Document Control

| Field            | Value                                       |
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### Revision History

| Version | Date          | Author     | Summary of Changes                              |
|---------|---------------|------------|-------------------------------------------------|
| 1.0     | July 07, 2026 | Soorya S V | Final release following technical verification. |

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## 1. Verification Objectives

The objective of this Verification Report is to formally validate the successful deployment of the authentication parameters outlined in Remediation Plan (REM-2026-001). Verification ensures that the SPF lookup limit has been resolved, CRM platforms are cryptographically signing via DKIM, and the domain has successfully achieved DMARC policy enforcement at the quarantine level without impacting legitimate mail flow.

## 2. Verification Scope

### In Scope

- SPF record verification and lookup counting
- DKIM selector and cryptographic signing validation (Salesforce, SendGrid, Google)
- DMARC policy enforcement verification via DNS and XML parsing
- Monitoring and aggregate reporting validation

### Out of Scope

- Inbox placement testing and marketing performance metrics
- Security penetration testing

## 3. Implementation Summary

| Change ID | Description                              | Status      | Verification Status |
|-----------|------------------------------------------|-------------|---------------------|
| C-001     | Replace existing SPF record              | Implemented | Verified            |
| C-002     | Provision DKIM key pair in Salesforce    | Implemented | Verified            |
| C-003     | Modify _dmarc TXT record to p=quarantine | Implemented | Verified            |

### 3.1 Infrastructure Improvement Summary

| Area  | Before Remediation      | After Remediation             |
|-------|-------------------------|-------------------------------|
| SPF   | 11 Lookups (PermError)  | 4 Lookups (RFC Aligned)       |
| DKIM  | Salesforce CRM Unsigned | Salesforce Active (2048-bit)  |
| DMARC | Policy: p=none          | Policy: p=quarantine; pct=100 |

## 4. Verification Methodology

Verification was performed via direct CLI DNS queries against authoritative name servers. Post-implementation DMARC XML aggregate reports were parsed to confirm cryptographic alignment. Live test emails were triggered from Google Workspace and Salesforce to manually inspect raw RFC 5322 header blocks for valid DKIM-Signature tags.

### 4.1 Verification Metadata

| Field                 | Value                                   |
|-----------------------|-----------------------------------------|
| Verification Window   | July 05, 2026 – July 07, 2026           |
| Propagation Allowance | 48 Hours                                |
| Resolver Used         | Cloudflare (1.1.1.1) / Google (8.8.8.8) |
| Verification Analyst  | Soorya S V                              |

## 5. DNS Verification

### 5.1 SPF

| Field               | Value                                                                            |
|---------------------|----------------------------------------------------------------------------------|
| Record Verified     | v=spf1 include:_spf.google.com include:_spf.salesforce.com ip4:192.0.2.0/24 ~all |
| Lookup Count        | 4 of 10                                                                          |
| Alignment Status    | Aligned                                                                          |
| Verification Status | Verified                                                                         |
| Observations        | Legacy nested includes removed. Direct IP blocks utilized.                       |
| Evidence Reference  | Appendix A – E-001                                                               |

### 5.2 DKIM

| Field               | Value            |
|---------------------|------------------|
| Selectors Verified  | google, sf1, s1  |
| Signing Status      | Active           |
| Key Length          | 2048 bits        |
| Alignment           | Strict Alignment |
| Verification Status | Verified         |

| Field              | Value                                                              |
|--------------------|--------------------------------------------------------------------|
| Observations       | Salesforce UI confirms active CNAME delegation. Headers show pass. |
| Evidence Reference | Appendix B – E-002                                                 |

### 5.3 DMARC

| Field               | Value                                                                       |
|---------------------|-----------------------------------------------------------------------------|
| Policy              | v=DMARC1; p=quarantine; pct=100; rua=mailto:reports@[Demonstration Domain]; |
| Alignment Status    | Aligned                                                                     |
| Enforcement Status  | Enforced (Quarantine)                                                       |
| Reporting Status    | Active Data Ingestion                                                       |
| Verification Status | Verified                                                                    |
| Observations        | Policy successfully escalated. XML data confirms CRM alignment.             |
| Evidence Reference  | Appendix C – E-003                                                          |

## 6. Vendor Configuration Verification

| Platform         | Purpose         | Auth Status        | Verification Status |
|------------------|-----------------|--------------------|---------------------|
| Google Workspace | Corporate Email | SPF / DKIM Aligned | Verified            |
| Salesforce       | CRM Platform    | SPF / DKIM Aligned | Verified            |
| SendGrid         | Transactional   | DKIM Aligned       | Verified            |
| Mailchimp        | Marketing       | DKIM Aligned       | Verified            |

## 7. Evidence Register

| Evidence ID | Type           | Description                   | Reference  |
|-------------|----------------|-------------------------------|------------|
| E-001       | DNS Output     | SPF Record Lookup Calculation | Appendix A |
| E-002       | Header Extract | Salesforce Raw Email Headers  | Appendix B |
| E-003       | JSON Snippet   | DMARC RUA Parsed Data         | Appendix C |

## 8. Residual Risks

**IMPORTANT** — The following residual risks have been identified following successful remediation. These items fall outside the immediate scope of this engagement and require ongoing client awareness, monitoring, and future mitigation where appropriate.

| Risk               | Reason                                                                          | Business Impact                           | Recommended Action                  |
|--------------------|---------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------|
| Quarantine Bypass  | p=quarantine allows some strict gateways to accept mail if they ignore the tag. | Spoofing remains partially viable.        | Escalate to p=reject after 30 days. |
| Subdomain Exposure | No explicit sp=reject tag applied.                                              | Subdomains could theoretically be abused. | Deploy strict subdomain policy.     |

## 9. Limitations of Verification

- Snapshot-in-time: verification reflects infrastructure state on July 07, 2026.
- Third-party provider behaviour is outside Vaixus control and may change independently.
- Infrastructure changes occurring after the verification date are not reflected in this report.

### 9.1 Verified Improvements

- [✓] SPF structure verified and aligned below 10 lookups.
- [✓] DKIM signing verified across all authorised platforms.
- [✓] DMARC enforcement verified at quarantine policy level.
- [✓] Post-implementation monitoring is actively ingesting XML data.

## 10. Overall Infrastructure Status

### VERIFIED

| Field                      | Value                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Overall Consultant Opinion | Infrastructure authentication controls have been successfully validated. Residual risks remain as documented in Section 8. |
| Current Risk Profile       | Low. Immediate deliverability threats resolved.                                                                            |
| Recommended Next Step      | Monitor for 30 days, then escalate DMARC to p=reject.                                                                      |

## 11. Consultant Conclusion

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The technical remediation detailed in REM-2026-001 has been successfully implemented and fully verified across all public DNS layers. The primary domain is now protected by strict cryptographic alignment, significantly improving global deliverability and protecting the enterprise brand from unauthorized spoofing. Vaixus Technologies concludes that the remediation objectives have been successfully verified.

**RECOMMENDATION** — Project Closure Recommended. Maintain monitoring for 30 days.

## Appendices

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### Appendix A – DNS Output

Representative terminal output demonstrating successful SPF flattening ( $\leq 10$  lookups):

```
; <<>> DiG 9.16.1-Ubuntu <<>> TXT [Demonstration Domain]
;; ANSWER SECTION:
[Demonstration Domain]. 300 IN TXT "v=spf1 include:_spf.google.com
include:_spf.salesforce.com ip4:192.0.2.0/24 ~all"
```

### Appendix B – Raw Headers

Extracted RFC 5322 headers confirming successful 2048-bit DKIM signature from Salesforce CRM:

```
Authentication-Results: mx.google.com;
    dkim=pass header.i=@[Demonstration Domain] header.s=sf1 header.b=X9a8B7c;
    spf=pass (google.com: domain of support@[Demonstration Domain] designates
192.0.2.55 as permitted sender)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=[Demonstration Domain];
    s=sf1; t=1688725801; h=from:to:subject:date:message-id;
```

### Appendix C – DMARC Reports

Parsed JSON DMARC aggregate data proving strict alignment and applied quarantine policy:

```
"record": {
  "row": {
    "source_ip": "192.0.2.55",
    "count": 1084,
    "policy_evaluated": {
      "disposition": "none",
      "dkim": "pass",
      "spf": "pass"
    }
  }
}
```