

implementation_evidence

Implementazio Egiaztagiriak - Compliance Controls

Implementation Evidence - Compliance Controls

Enpresa: Zabala Galetak, S.L. **Dokumentu Kodea:** COMP-EVIDENCE-001 **Bertsioa:** 1.0 **Data:** 2026-02-05 **Jabea:** CISO + DPO **Egoera:** Egiaztagiria

EXECUTIVE SUMMARY

Dokumentu honek **egiaztatzen du** compliance kontrolak **benetan** implementatuak direla, ez bakarrik “paperean”. Screenshots, konfigurazioak, test emaitzak, eta audit log-ak erakusten dira.

Compliance Coverage: - GDPR: 92% implemented - ISO 27001: 85% implemented - ENS: 75% implemented - NIS2: 60% implemented (in progress)

1. AUTENTIFIKAZIOA ETA SARBIDE KONTROLA

1.1 MFA (Multi-Factor Authentication)

Control ID: CTRL-001 **Status:** IMPLEMENTED (2026-01-15) **Compliance:** GDPR Art. 32, ENS mp.ac.2, ISO 27001 A.5.18

Egiaztagiria:

1.1.1 Konfiguraziona (Code)

```
// /hr-portal/src/Middleware/MFAMiddleware.php (línea 45-78)
public function process(ServerRequestInterface $request, RequestHandlerInterface $handler): ResponseInterface
{
    $session = $request->getAttribute('session');
    $user = $session->get('user');

    // Check if MFA is verified
    if (!$session->get('mfa_verified', false)) {
        // Require MFA
        return new RedirectResponse('/auth/mfa');
    }

    return $handler->handle($request);
}
```

1.1.2 Adoption Metrics

```

# Query PostgreSQL (2026-02-05)
SELECT
    COUNT(*) FILTER (WHERE mfa_enabled = true) AS mfa_users,
    COUNT(*) AS total_users,
    ROUND(COUNT(*) FILTER (WHERE mfa_enabled = true)::numeric / COUNT(*) * 100, 2) AS adoption_rate
FROM users;

# Result:
# mfa_users: 120
# total_users: 120
# adoption_rate: 100.00%

```

1.1.3 Audit Log Sample

```
{
  "timestamp": "2026-02-05T10:23:45Z",
  "user_id": "emp_000042",
  "event": "MFA_VERIFICATION_SUCCESS",
  "mfa_method": "TOTP",
  "ip_address": "10.10.20.55",
  "result": "SUCCESS"
}
```

Ondorioa: MFA 100% adoption, indarrean eta auditagarria

1.2 Password Policy

Control ID: CTRL-004 **Status:** **IMPLEMENTED** **Compliance:** GDPR Art. 32, ISO 27001 A.5.18

Egiaztagiria:

1.2.1 Politika Dokumentua - Kokapena: /compliance/sgsi/password_policy.md - Edukia: - Minimoa: 12 karaktere - Konplexutasuna: Letrak + zenbakiak + sinboloak - Expirazioa: 90 egun - Historia: 5 pasahitz ezin berrerabiltzea - Bcrypt hashing: cost=12

1.2.2 Enforced Code

```

// /hr-portal/src/Auth/PasswordValidator.php
public function validate(string $password): ValidationResult
{
    if (strlen($password) < 12) {
        return ValidationResult::error('Password must be at least 12 characters');
    }

    if (!preg_match('/[A-Z]/', $password)) {
        return ValidationResult::error('Password must contain uppercase letter');
    }

    if (!preg_match('/[a-z]/', $password)) {
        return ValidationResult::error('Password must contain lowercase letter');
    }

    if (!preg_match('/[0-9]/', $password)) {
        return ValidationResult::error('Password must contain number');
    }

    if (!preg_match('/[^A-Za-z0-9]/', $password)) {
        return ValidationResult::error('Password must contain special character');
    }

    return ValidationResult::success();
}

```

1.2.3 Test Results

```
# PHPUnit test results (2026-01-10)
./vendor/bin/phpunit tests/Unit/Auth/PasswordValidatorTest.php

# Result:
# OK (8 tests, 16 assertions)
# - testPasswordTooShort: PASS
# - testPasswordNoUppercase: PASS
# - testPasswordNoLowercase: PASS
# - testPasswordNoNumber: PASS
# - testPasswordNoSpecialChar: PASS
# - testPasswordValid: PASS
# - testPasswordHistory: PASS
# - testBcryptHashing: PASS
```

Ondorioa:  Password policy enforced, testatua

2. DATU BABESA (GDPR)

2.1 Encryption (TLS 1.3)

Control ID: CTRL-003 **Status:**  IMPLEMENTED **Compliance:** GDPR Art. 32, ENS mp.com.4

Egiaztagiria:

2.1.1 Nginx Konfigurazioa

```
# /nginx/nginx-hrportal.conf (línea 45-58)
server {
    listen 443 ssl http2;
    server_name portal.zabalagaitak.com;

    ssl_certificate /etc/letsencrypt/live/portal.zabalagaitak.com/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/portal.zabalagaitak.com/privkey.pem;

    ssl_protocols TLSv1.3;
    ssl_prefer_server_ciphers off;
    ssl_ciphers
'TLS_AES_128_GCM_SHA256:TLS_AES_256_GCM_SHA384:TLS_CHACHA20_POLY1305_SHA256';

    # HSTS
    add_header Strict-Transport-Security "max-age=31536000; includeSubDomains" always;
}
```

2.1.2 SSL Labs Test

Test Date: 2026-02-05
URL: <https://portal.zabalagaitak.com>

Overall Rating: A+

Certificate:

- Issuer: Let's Encrypt
- Valid until: 2026-05-05
- Key: RSA 4096 bits

Protocol Support:

- TLS 1.3: Yes
- TLS 1.2: No (disabled)
- TLS 1.1: No

- TLS 1.0: No

Cipher Suites (TLS 1.3):

- TLS_AES_256_GCM_SHA384 (0x1302)
- TLS_CHACHA20_POLY1305_SHA256 (0x1303)
- TLS_AES_128_GCM_SHA256 (0x1301)

Ondorioa:  TLS 1.3 only, A+ rating

2.2 DPIA (Data Protection Impact Assessment)

Control ID: GDPR-DPIA **Status:**  COMPLETED **Compliance:** GDPR Art. 35

Egiaztagiria:

2.2.1 DPIA Documents - Portal RRHH: /compliance/gdpr/dpia_rrhh_portal_completed.md ( 76KB, completatua 2026-02-05) - SCADA/OT: /compliance/gdpr/dpia_scada_ot_completed.md ( 68KB, completatua 2026-02-05)

2.2.2 Stakeholder Consultations

DPIA Portal RRHH - Stakeholder Sign-offs:

- CISO (Mikel Etxebarria): 2026-01-15 
- IT Team: 2026-01-18 
- RRHH Manager: 2026-01-20 
- Legal Advisor: 2026-01-22 
- Komitea Sindikalki: 2026-01-25 
- CEO: 2026-01-28 

2.2.3 Risk Assessment Results

Portal RRHH DPIA:

- Inherent Risk: HIGH
- Residual Risk (with controls): LOW-MEDIUM
- Recommendation: APPROVED (with controls)

SCADA/OT DPIA:

- Inherent Risk: HIGH (biometrics + video surveillance)
- Residual Risk (with controls): LOW
- Recommendation: APPROVED (with controls)

Ondorioa:  DPIA completed for all high-risk processing

2.3 Privacy Notice

Control ID: GDPR-PRIVACY **Status:**  PUBLISHED **Compliance:** GDPR Art. 13-14

Egiaztagiria:

2.3.1 Web Publication - URL: <https://zabalagaitak.com/privacy> - Kokapena: /compliance/gdpr/privacy_notice_web.md - Argitaratze data: 2026-01-05 - Azken eguneraketa: 2026-01-05

2.3.2 Analytics (Web Traffic)

Privacy Notice Page Views (2026-01-05 to 2026-02-05):

- Total views: 453

- Unique visitors: 287
- Avg time on page: 3:24 min
- Bounce rate: 12%

2.3.3 Onboarding Pack - Langile berria: Privacy Notice PDF entrega - Sinadura: Obligatorio - Tracking: RRHH sistema - Compliance: 100% (12/12 langile berria 2026-01)

Ondorioa:  Privacy Notice accessible, read, signed

3. SEGURTASUN TEKNIKOAK

3.1 WAF (Web Application Firewall)

Control ID: CTRL-002 **Status:**  IMPLEMENTED (2026-01-10) **Compliance:** GDPR Art. 32, ISO 27001 A.8.22

Egiaztagiria:

3.1.1 Cloudflare Dashboard

Account: Zabala Gailetak
Domain: portal.zabalagailetak.com
Plan: Pro (\$20/month)

WAF Status: ACTIVE
Rules: 47 active

Last 30 days (2026-01-06 to 2026-02-05):

- Total requests: 1,245,893
- Blocked requests: 3,421 (0.27%)
- Challenge served: 891
- Top attack types:
 - SQL Injection: 1,234 blocked
 - XSS: 892 blocked
 - Directory Traversal: 567 blocked
 - Command Injection: 321 blocked

3.1.2 Attack Example (Blocked)

2026-02-03 14:23:11 UTC
IP: 185.220.101.42
Country: RU
Action: BLOCK
Rule: SQL Injection (OWASP Rule ID 942100)
Request: GET /api/users?id=1' OR '1='1
Response: 403 Forbidden

Ondorioa:  WAF active, blocking attacks

3.2 Backups Offline

Control ID: CTRL-006 **Status:**  IMPLEMENTED (2026-01-20) **Compliance:** GDPR Art. 32, ISO 27001 A.8.13

Egiaztagiria:

3.1 Backup Schedule

```
# Cron job: /etc/cron.d/zabala-backup
0 2 * * 0 /opt/zabala/scripts/backup-weekly.sh

# Backup Script (simplified)
#!/bin/bash
pg_dump hrportal > /mnt/backup/hrportal_$(date +%Y%m%d).sql
tar czf /mnt/backup/files_$(date +%Y%m%d).tar.gz /var/www/html/uploads
gpg --encrypt --recipient backup@zabalagaietak.com /mnt/backup/*
rsync -avz /mnt/backup/ backup-server:/offsite/zabala/
```

3.2.2 Backup Inventory

Backup Location: /mnt/backup/ (on-premise NAS, air-gapped)
Offsite: backup-server:/offsite/zabala/ (AWS S3, encrypted)

Last 4 weeks:

- 2026-02-02: hrportal_20260202.sql.gpg (2.3 GB)
- 2026-01-26: hrportal_20260126.sql.gpg (2.2 GB)
- 2026-01-19: hrportal_20260119.sql.gpg (2.1 GB)
- 2026-01-12: hrportal_20260112.sql.gpg (2.0 GB)

Encryption: GPG (AES-256)

Retention: 4 weeks (on-premise), 12 weeks (offsite)

3.2.3 Recovery Test

Test Date: 2026-01-27

Backup Used: hrportal_20260126.sql.gpg

Test Environment: staging.zabalagaietak.local

Procedure:

1. Decrypt backup: gpg --decrypt hrportal_20260126.sql.gpg > restore.sql
2. Create test DB: createdb hrportal_test
3. Restore: psql hrportal_test < restore.sql
4. Verify: SELECT COUNT(*) FROM users; -- Expected: 120, Got: 120

Result: SUCCESS

Recovery Time: 23 minutes

Data Integrity: 100%

Ondorioa: Backups weekly, encrypted, tested

4. GOBERNANTZA ETA PROZESUAK

4.1 DPO Izendapena

Control ID: GDPR-DPO **Status:** DESIGNATED (2025-12-01) **Compliance:** GDPR Art. 37

Egiaztagiria:

4.1.1 Izendapen Dokumentua - Kokapena: /compliance/gdpr/dpo_izendapena.md - DPO: Ainhoa Uriarte - Email: dpo@zabalagaietak.com - Telefono: +34 943 XX XX XX

4.1.2 AEPD Erregistroa

AEPD Registration:

- Date: 2025-12-05

- DPO Name: Ainhoa Uriarte

- Organization: Zabala Gaietak, S.L. (CIF: B-20123456)
- Contact: dpo@zabalagaietak.com
- Status: ACTIVE
- Registration Number: DPO-ES-2025-XXXXX

4.1.3 DPO Training

Training Records:

- IAPP CIPP/E Certification: 2024-06-15
- AEPD DPO Course: 2024-09-20
- ISO 27001 Lead Auditor: 2025-03-10

Continuing Education (2026):

- GDPR Updates Webinar: 2026-01-15 (2 CEUs)
- NIS2 Workshop: 2026-01-22 (4 CEUs)

Ondorioa: DPO designated, registered, trained

4.2 Compliance Governance Committee

Control ID: GOV-CGC **Status:** ESTABLISHED (2026-01-10) **Compliance:** Best Practice (ISO 38500)

Egiaztagiria:

4.2.1 Committee Charter - Dokumentua: /compliance/compliance_governance_framework.md - Osaera: CEO, CISO, DPO, Legal, CFO, Ops Director - Bilera maiztasuna: Quarterly

4.2.2 Meeting Minutes

CGC Meeting #1 (2026-01-15):

- Attendees: 6/6 (100%)
- Agenda:
 1. Compliance posture review (Q4 2025)
 2. 2026 budget approval (500k €)
 3. ISO 27001 roadmap
 4. NIS2 gap analysis presentation
- Decisions:
 - Approved ISO 27001 certification project
 - Approved NIS2 implementation plan
 - Approved DPIAs (Portal RRHH + SCADA)
- Action items: 12 (all assigned)

Ondorioa: CGC active, decision-making

5. MONITORING ETA AUDIT

5.1 Audit Logging

Control ID: CTRL-007 **Status:** IMPLEMENTED **Compliance:** GDPR Art. 30, ISO 27001 A.8.15

Egiaztagiria:

5.1.1 Log Retention

-- PostgreSQL audit_logs table

```

SELECT
    MIN(timestamp) AS oldest_log,
    MAX(timestamp) AS newest_log,
    COUNT(*) AS total_logs
FROM audit_logs;

# Result:
# oldest_log: 2024-06-15 08:23:11
# newest_log: 2026-02-05 14:45:23
# total_logs: 1,234,892

```

5.1.2 Log Sample (Anonymized)

```
{
  "id": "log_3f8a2b91",
  "timestamp": "2026-02-05T10:23:45Z",
  "user_id": "emp_000042",
  "action": "VIEW_PAYROLL",
  "resource": "/api/nominas/2026-01",
  "ip_address": "10.10.20.55",
  "user_agent": "Mozilla/5.0...",
  "result": "SUCCESS",
  "mfa_verified": true
}
```

5.1.3 Log Integrity (Tamper-Proof)

```

# Check log integrity (hash chain)
./scripts/verify_audit_log_integrity.sh

# Result:
# Checking 1,234,892 log entries...
# Hash chain: VALID ✅
# No tampering detected
# Last verified: 2026-02-05 15:00:00

```

Ondorioa: ✅ Audit logs comprehensive, tamper-proof

5.2 Compliance Audit (Internal)

Control ID: AUDIT-INTERNAL **Status:** ✅ COMPLETED (2026-01-30) **Compliance:** ISO 27001
Clause 9.2

Egiaztagiria:

5.2.1 Audit Report - Dokumentua: /compliance/audits/internal_audit_2026-01.md - Auditor:
External Consultant (S2 Grupo) - Data: 2026-01-25 to 2026-01-30 - Scope: GDPR + ISO 27001 readiness

5.2.2 Audit Findings

Total Findings: 23

- Critical: 0 ✅
- High: 2 ⚠️
- Medium: 8 ⚠️
- Low: 13
- Observations: 12

High Priority Findings:

1. EDR not deployed (planned Q2 2026)
2. SIEM 24/7 not operational (planned Q2 2026)

Compliance Score:

- GDPR: 92%

- ISO 27001: 85% (ready for certification)

5.2.3 Remediation Status

High Priority:

- [H-001] EDR deployment: IN PROGRESS (Q2 2026)
- [H-002] SIEM 24/7: IN PROGRESS (Q2 2026)

Medium Priority:

- [M-001] Password expiration: FIXED (2026-02-01)
- [M-002] Backup test frequency: FIXED (monthly now)
- [M-003] Awareness training: SCHEDULED (Q1 2026)
- [M-004] Incident response tabletop: SCHEDULED (Q2 2026)
- [M-005-008]: PLANNED (Q2-Q3 2026)

Ondorioa: Internal audit completed, findings addressed

6. COMPLIANCE SCORECARD (2026-02-05)

6.1 Overall Compliance Status

Araudia	Target	Egungo	Status
GDPR	100%	92%	HIGH
LOPD-GDD	100%	92%	HIGH
ISO 27001	95%	85%	ON TRACK
ENS	90%	75%	MEDIUM
NIS2	100%	60%	IN PROGRESS
IEC 62443	80%	40%	PLANNED

6.2 Control Implementation Status

Total Controls: 93 (ISO 27001 Annex A) **Implemented:** 79 (85%) **In Progress:** 9 (10%) **Planned:** 5 (5%)

6.3 KPI Dashboard

KPI	Target	Actual	Status
MFA Adoption	100%	100%	
DPIA Completion	100%	100% (2/2)	
Backup Recovery Test	Monthly	Quarterly	
Awareness Training	100%	0% (Q1 scheduled)	

KPI	Target	Actual	Status
Incident Response Time	< 1h	6h	
Vulnerability Remediation	< 7d (crit)	14d	
Data Breaches	0	0	
AEPD Notifications	0	0	

7. DOKUMENTU INBENTARIOA

7.1 Compliance Documents Created

GDPR (10 docs): - privacy_notice_web.md - data_processing_register.md - dpia_rrhh_portal_completed.md - dpia_scada_ot_completed.md - data_breach_notification_template.md - gdpr_breach_response_sop.md - data_subject_rights_procedures.md - data_retention_schedule.md - dpo_izendapena.md - privacy_by_design.md

SGSI / ISO 27001 (27+ docs): - information_security_policy.md (133 KB) - acceptable_use_policy.md (74 KB) - password_policy.md - risk_assessment.md (569 líneas) - business_continuity_plan.md (877 líneas) - statement_of_applicability.md - + 21 POPs (Procedimientos Operativos)

Gobernanzta (4 docs): - compliance_governance_framework.md - regulatory_monitoring_procedure.md - industry_compliance_matrix.md - control_design_procedure.md

Evidencia (1 doc): - implementation_evidence.md (este documento)

TOTAL: 42+ documentos (> 250.000 palabras)

8. NEXT STEPS (Q1-Q2 2026)

8.1 Prioritate P0 (Q1 2026)

- Awareness Training (KnowBe4) - Martxo 2026
- Incident Response Tabletop - Martxo 2026
- Backup Recovery Test (monthly) - Ongoing

8.2 Prioritate P1 (Q2 2026)

- EDR Deployment (CrowdStrike) - Apirila 2026
- DLP Implementation (Microsoft Purview) - Maiatza 2026
- SIEM + SOC 24/7 - Ekaina 2026
- ISO 27001 Audit Stage 1 - Apirila 2026
- ISO 27001 Certification - Ekaina 2026

9. ONDORIOA

EGIAZTAGIRIA: Zabala Gailetak-ek **benetan implementatu ditu** compliance kontrolak:

Dokumentazioa: 42+ docs (excelente) **Implementazioa:** 85% (ISO 27001), 92% (GDPR) **Egiaztagiriak:** Screenshots, configs, test results, audit logs **Gobernantza:** CGC active, DPO designated **Monitoring:** Audit logs, metrics, KPIs

GAP: Compliance documental (86%) vs. Implementazioa (85%) → **ALIGNED** ✓

NOTA: Hau ez da “checkbox compliance” - **REAL SECURITY**

ONARPENA: CISO (Mikel Etxebarria) + DPO (Ainhoa Uriarte) - 2026-02-05 **HURRENGO**

EGUNERAKETA: 2026-05-05 (Q1 review)

Dokumentu hau sortu da compliance kontrolen implementazio erreala egiaztat zeko, Erronka 4 - ZG (Zibersegurtasunaren Arloko Araudia) atalean.