Contents

RAWS v1.1 Administrator Documentation

Operations and Administration Guide

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1. System Overview

RAWS automatically selects optimal AI models using 8-dimension scoring across 13 weight profiles and 7 domains.

Key Admin Responsibilities

- Model registry management
- Weight profile configuration
- Domain compliance enforcement

- Thermal state management
- Provider health monitoring
- Cost optimization

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2. Regulatory Compliance by Domain

2.1 Compliance Matrix

Domain	Required	Optional	Truth Engine
Healthcare	HIPAA	FDA 21 CFR Part 11, HITECH	Required
Financial	SOC 2 Type II	PCI-DSS, GDPR, SOX	Required
Legal	SOC 2 Type II	GDPR, State Bar Rules	Required
Scientific	None	FDA 21 CFR Part 11, GLP, IRB	Optional
Creative	None	FTC Guidelines	Not Required
Engineering	None	SOC 2, ISO 27001, NIST CSF	Optional
General	None	None	Not Required

2.2 Domain Regulatory Details

Healthcare Domain   Mandatory Compliance: - **HIPAA** (Health Insurance Portability and Accountability Act) - Applies to: Any system processing Protected Health Information (PHI) - Requirements: Encryption at rest/transit, access controls, audit trails, Business Associate Agreements - RAWS Enforcement: Only HIPAA-certified models are eligible; selection filtered before scoring

Conditional Compliance: - **FDA 21 CFR Part 11** (Electronic Records; Electronic Signatures) - Applies to: Clinical trials, drug development, medical device decisions - Requirements: Electronic record integrity, audit trails, electronic signatures - RAWS Enforcement: Models flagged as FDA-eligible when this compliance is required

- **HITECH Act**
    - Extends HIPAA for electronic health records
    - Increases penalties for HIPAA violations

Admin Actions:

```
# Verify HIPAA-eligible models
radiant-cli raws models list --compliance HIPAA --env production
```

```
# Healthcare selection audit
radiant-cli raws audit search --domain healthcare --last 30d --env production
```

Financial Domain   Mandatory Compliance: - **SOC 2 Type II** - Applies to: Financial services handling customer data - Requirements: Security controls, availability, processing integrity, confidentiality, privacy - Audit Period: 6-12 months of operational evidence - RAWS Enforcement: SOC2-certified models only for financial domain

Conditional Compliance: - **PCI-DSS** (Payment Card Industry Data Security Standard) - Applies to: Processing, storing, or transmitting payment card data - Requirements: Network security, access control, encryption, testing

- **GDPR** (General Data Protection Regulation)
  - Applies to: EU resident financial data
  - Requirements: Data minimization, consent, right to erasure, data portability
- **SOX** (Sarbanes-Oxley Act)
  - Applies to: Publicly traded companies
  - Requirements: Audit trail, internal controls, financial reporting integrity
- **SEC/FINRA Regulations**
  - Investment advice must not mislead
  - AI outputs used in investment decisions face regulatory scrutiny

Admin Actions:

```
# Financial compliance report
radiant-cli raws compliance report --framework SOC2 --domain financial --env production

# Check models with PCI-DSS
radiant-cli raws models list --compliance PCI_DSS --env production
```

Legal Domain **Mandatory Compliance:** - **SOC 2 Type II** - Protects attorney-client privilege - Ensures confidential document security - Required for legal tech platforms

Conditional Compliance: - **ABA Model Rules of Professional Conduct** - Lawyers remain liable for AI outputs - Must maintain competent representation - Confidentiality obligations extend to AI tools

- **GDPR**
  - Required for EU data subjects in legal matters
  - Special categories of data (legal proceedings) have heightened protections
- **State Bar Requirements**
  - Many jurisdictions require disclosure of AI use in legal documents
  - Continuing education requirements on AI tools

Admin Actions:

```
# Legal domain with source citation requirement
radiant-cli raws domains get legal --env production

# Verify citation tracking enabled
radiant-cli raws config get truth_engine.require_citation --domain legal --env production
```

Scientific Domain **No Mandatory Compliance** (varies by research type)

Conditional Compliance: - **FDA 21 CFR Part 11** - Applies to: Pharmaceutical research, drug development - Required for submissions to regulatory agencies

- **GLP** (Good Laboratory Practice)
  - Applies to: Non-clinical laboratory studies
  - Required for studies submitted to FDA, EPA, etc.

- **IRB Approval** (Institutional Review Board)
  - Applies to: Human subjects research using AI tools
  - Required for federally funded research
- **NIH Data Management Requirements**
  - Data integrity for federally funded research
  - Public access requirements
- **Journal Disclosure Requirements**
  - Many journals require disclosure of AI use
  - ICMJE guidelines on AI authorship

Admin Actions:

```
# Scientific domain configuration
radiant-cli raws domains get scientific --env production


# Enable FDA compliance for pharma research
radiant-cli raws domains update scientific --add-compliance FDA_21_CFR --env production
```

Creative Domain   No Mandatory Compliance

Considerations: - **FTC Guidelines** - AI-generated advertising may require disclosures - Endorsements using AI must be transparent

- **Copyright**
  - Not a compliance requirement but legal consideration
  - AI-generated content copyright status varies by jurisdiction

Admin Actions:

```
# Creative domain has no compliance requirements
radiant-cli raws domains get creative --env production


# Lowest ECD threshold - hallucinations acceptable
# ECD threshold: 0.20 (vs 0.05 for healthcare)
```

Engineering Domain   No Mandatory Compliance (varies by application)

Conditional Compliance: - **SOC 2 Type II** - Required if AI-generated code processes sensitive data - Common for SaaS/enterprise applications

- **ISO 27001**
  - Information security management
  - Enterprise software development
- **NIST Cybersecurity Framework**
  - Recommended for security-sensitive applications
  - Federal government contractors
- **FDA 21 CFR Part 11**
  - Required for medical device software (SaMD)
  - Software in diagnostic or therapeutic devices
- **IEC 62443**
  - Industrial control systems

– Critical infrastructure software

Admin Actions:

```
# Engineering domain - compliance varies by use case
radiant-cli raws domains get engineering --env production

# For medical device software, add FDA compliance
radiant-cli raws domains update engineering --add-compliance FDA_21_CFR --tenant medical-device
```

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3. Weight Profile Management

3.1 All 13 System Profiles

ID	Category	Primary Use
BALANCED	Optimization	Default, general purpose
QUALITY_FIRST	Optimization	Maximum accuracy
COST_OPTIMIZED	Optimization	Budget-conscious
LATENCY_CRITICAL	Optimization	Real-time applications
HEALTHCARE	Domain	Medical/clinical (HIPAA)
FINANCIAL	Domain	Finance/investment (SOC2)
LEGAL	Domain	Contracts/litigation (SOC2)
SCIENTIFIC	Domain	Research/academic
CREATIVE	Domain	Content/marketing
ENGINEERING	Domain	Code/software
SYSTEM_1	SOFAI	Fast, simple queries
SYSTEM_2	SOFAI	Complex reasoning
SYSTEM_2_5	SOFAI	Maximum reasoning

3.2 Profile Compliance Mapping

```
# View profile with compliance requirements
radiant-cli raws profiles get HEALTHCARE --env production

# Output:
id: HEALTHCARE
weights: {Q: 0.30, C: 0.05, L: 0.10, K: 0.15, R: 0.10, P: 0.20, A: 0.05, E: 0.05}
constraints:
  minQualityScore: 80
  requiredCompliance: [HIPAA]
  forcedSystemType: SYSTEM_2
  requireTruthEngine: true
  maxEcdThreshold: 0.05
regulatory_rationale: |
  HIPAA mandatory for PHI. FDA 21 CFR Part 11 optional for clinical trials.
  High compliance weight (P=0.20) ensures only certified models selected.
```

```
    Quality threshold (80) prevents low-quality models for medical use.
    System 2 forced - no fast/cheap models for patient safety.
```

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4. Domain Configuration

4.1 Domain Settings

```
# List all domains
radiant-cli raws domains list --env production

# Output:

  Domain        Profile         Min Q   ECD     Compliance

  healthcare    HEALTHCARE      80      0.05    HIPAA
  financial     FINANCIAL       75      0.05    SOC2
  legal         LEGAL           80      0.05    SOC2
  scientific    SCIENTIFIC      70      0.08    -
  creative      CREATIVE        -       0.20    -
  engineering   ENGINEERING     70      0.10    -
  general       BALANCED        -       0.10    -
```

4.2 Modifying Domain Compliance

```
# Add compliance requirement for a tenant's domain usage
radiant-cli raws domains tenant-override \
  --tenant enterprise-tenant \
  --domain engineering \
  --add-compliance SOC2 \
  --add-compliance ISO_27001 \
  --env production

# View tenant override
radiant-cli raws domains get engineering --tenant enterprise-tenant --env production
```

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5. Compliance Monitoring

5.1 Compliance Dashboard

```
# Generate compliance summary
radiant-cli raws compliance summary --env production

# Output:
Compliance Summary (January 2026)

HIPAA Selections:       12,453 (100% compliant)
```

```
SOC2 Selections:          45,892 (100% compliant)
FDA 21 CFR Selections:       234 (100% compliant)
Non-Compliant Attempts:        0 (blocked at filter stage)

By Domain:
  healthcare:  12,453 selections   HIPAA required   0 violations
  financial:   28,743 selections   SOC2 required    0 violations
  legal:       17,149 selections   SOC2 required    0 violations
  scientific:   8,234 selections   optional         N/A
  creative:    15,892 selections   none             N/A
  engineering: 22,156 selections   optional         N/A
  general:     34,521 selections   none             N/A
```

5.2 Compliance Reports

```
# Generate HIPAA compliance report for auditors
radiant-cli raws compliance report \
  --framework HIPAA \
  --period 2026-Q1 \
  --output hipaa-audit-q1-2026.pdf \
  --include-audit-trails \
  --env production

# Generate SOC 2 evidence package
radiant-cli raws compliance evidence \
  --framework SOC2 \
  --period 2025 \
  --output soc2-evidence-2025.zip \
  --env production
```

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6. Model Compliance Status

6.1 Viewing Model Compliance

```
# List models by compliance certification
radiant-cli raws models list --compliance HIPAA --env production

# Output:
HIPAA-Certified Models (12 total):
```

Model	Provider	Quality	Additional Compliance
claude-opus-4-5	anthropic	87.2	SOC2, GDPR, HIPAA
claude-sonnet-4-5	anthropic	83.4	SOC2, GDPR, HIPAA
gpt-4o	openai	79.2	SOC2, HIPAA
gpt-4-turbo	openai	76.5	SOC2, HIPAA
gemini-2.5-pro	google	82.3	SOC2, HIPAA, ISO_27001

```
  ...
```

6.2 Model Compliance Matrix

```
# Full compliance matrix
radiant-cli raws models compliance-matrix --env production

# Output shows which models have which certifications
```

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7. Alerts and Notifications

7.1 Compliance Alerts

Alert	Threshold	Severity	Action
HIPAA model disabled	Any	Critical	SNS + PagerDuty
SOC2 cert expiring	30 days	Warning	SNS + Slack
Compliance filter blocking >5%	Rate	Warning	SNS
Non-compliant selection attempt	Any	Info	Log only

7.2 Alert Configuration

```
# Configure compliance alerts
radiant-cli raws alerts set compliance-expiry \
  --framework SOC2 \
  --days-before 30 \
  --severity warning \
  --notify slack:#compliance-alerts \
  --env production
```

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8. Quick Reference

Common Commands

```
# Compliance
radiant-cli raws compliance summary --env production
radiant-cli raws compliance report --framework HIPAA --env production
radiant-cli raws models list --compliance SOC2 --env production

# Domains
radiant-cli raws domains list --env production
radiant-cli raws domains get healthcare --env production

# Profiles
radiant-cli raws profiles list --env production
```

```
radiant-cli raws profiles get HEALTHCARE --env production

# Audit
radiant-cli raws audit search --domain healthcare --last 24h --env production
```

Compliance Contacts

Framework	Internal Contact	External Auditor
HIPAA	compliance@radiant.example.com	[Auditor Name]
SOC 2	security@radiant.example.com	[Auditor Name]
GDPR	privacy@radiant.example.com	[DPO Name]
FDA	regulatory@radiant.example.com	[Consultant]

End of Administrator Documentation

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