Contents

RADIANT Open Source Libraries Registry

Dependency Tracking & License Compliance

Version: 1.0 | **Date**: January 19, 2026
Last Updated: January 19, 2026

Overview

This document tracks all open source libraries used by RADIANT and Think Tank. It is **MANDATORY** to update this document when libraries are added or removed.

Policy: See `/.windsurf/workflows/open-source-library-policy.md`

License Classification

Category	Commercial Use	Flag	Action
Permissive	Free for commercial use	None	Auto-approved
Weak Copyleft	Usually OK with dynamic linking	**REVIEW**	Legal review recommended
Strong Copyleft	Requires source disclosure	**COPYLEFT**	Flag for review, document justification
Non-Commercial	NOT free for commercial use	**NON-COMMERCIAL**	Flag for Immediate review
Proprietary/Unknown	Requires paid license or unknown	**UNKNOWN**	Flag and verify before production

Note: Flagged licenses are NOT automatically blocked. They require documentation and review to ensure proper compliance.

Category 1: RADIANT Platform Internal Libraries

Libraries used internally by the RADIANT platform infrastructure.

AWS SDK Libraries

Library	Description	License	Date Added	Flag
@aws-sdk/client-apigatewaymanagementapi	WebSocket API management	Apache-2.0	2024-01-01	
@aws-sdk/client-bedrock-runtime	AWS Bedrock AI runtime	Apache-2.0	2024-01-01	
@aws-sdk/client-cloudwatch	CloudWatch metrics	Apache-2.0	2024-01-01	
@aws-sdk/client-cloudwatch-logs	CloudWatch logging	Apache-2.0	2024-01-01	
@aws-sdk/client-cognito-identity-provider	Cognito identity	Apache-2.0	2024-01-01	
@aws-sdk/client-cost-explorer	Cost analysis	Apache-2.0	2024-01-01	
@aws-sdk/client-dynamodb	DynamoDB operations	Apache-2.0	2024-01-01	
@aws-sdk/client-ecs	Container orchestration	Apache-2.0	2024-01-01	

Library	Description	License	Date Added	Flag
@aws-sdk/client-eventbridge	Event scheduling	Apache-2.0	2024-01-01	
@aws-sdk/client-kms	Key management	Apache-2.0	2024-01-01	
@aws-sdk/client-lambda	Lambda invocation	Apache-2.0	2024-01-01	
@aws-sdk/client-rds-data	Aurora Data API	Apache-2.0	2024-01-01	
@aws-sdk/client-s3	S3 storage	Apache-2.0	2024-01-01	
@aws-sdk/client-sagemaker	Model management	Apache-2.0	2024-01-01	
@aws-sdk/client-sagemaker-runtime	Inference runtime	Apache-2.0	2024-01-01	
@aws-sdk/client-secrets-manager	Secret storage	Apache-2.0	2024-01-01	
@aws-sdk/client-ses	Email sending	Apache-2.0	2024-01-01	
@aws-sdk/client-sns	Push notifications	Apache-2.0	2024-01-01	
@aws-sdk/client-sqs	Message queuing	Apache-2.0	2024-01-01	
@aws-sdk/client-ssm	Parameter store	Apache-2.0	2024-01-01	
@aws-sdk/lib-dynamodb	DynamoDB document client	Apache-2.0	2024-01-01	
@aws-sdk/s3-request-presigner	Presigned S3 URLs	Apache-2.0	2024-01-01	
@aws-sdk/client-budgets	Budget management	Apache-2.0	2024-06-01	
@aws-sdk/client-elasticache	Redis/ElastiCache	Apache-2.0	2024-06-01	
@aws-sdk/client-kinesis	Data streaming	Apache-2.0	2024-06-01	
@aws-sdk/client-neptune	Graph database	Apache-2.0	2024-06-01	
@aws-sdk/client-opensearch	Search	Apache-2.0	2024-06-01	
@aws-sdk/client-opensearchserverless	Serverless search	Apache-2.0	2024-06-01	
@aws-sdk/client-pricing	AWS pricing API	Apache-2.0	2024-06-01	
@aws-sdk/client-textract	Document OCR	Apache-2.0	2024-06-01	

Infrastructure Libraries

Library	Description	License	Date Added	Flag
aws-cdk-lib	AWS Cloud Development Kit	Apache-2.0	2024-01-01	
constructs	CDK constructs	Apache-2.0	2024-01-01	
source-map-support	Stack trace support	MIT	2024-01-01	

Database & Caching Libraries

Library	Description	License	Date Added	Flag
pg	PostgreSQL client for Node.js	MIT	2024-01-01	
redis	Redis client v5	MIT	2024-01-01	
ioredis	Redis client (alternative)	MIT	2024-01-01	

Payment Processing

Library	Description	License	Date Added	Flag
`stripe`	Stripe payment SDK	MIT	2024-01-01	

Validation & Utilities

Library	Description	License	Date Added	Flag
`zod`	TypeScript-first schema validation	MIT	2024-01-01	
`uuid`	UUID generation	MIT	2024-01-01	
`date-fns`	Date manipulation	MIT	2024-01-01	

Observability

Library	Description	License	Date Added	Flag
`@opentelemetry/api`	OpenTelemetry tracing API	Apache-2.0	2024-06-01	

Authentication

Library	Description	License	Date Added	Flag
`jwks-rsa`	JWKS RSA key retrieval	MIT	2024-01-01	

Category 2: Think Tank Internal Libraries

Libraries used internally by Think Tank applications.

React Framework

Library	Description	License	Date Added	Flag
`react`	React UI library	MIT	2024-01-01	
`react-dom`	React DOM bindings	MIT	2024-01-01	
`next`	Next.js framework	MIT	2024-01-01	
`next-themes`	Theme switching for Next.js	MIT	2024-01-01	

UI Component Libraries (Radix UI)

Library	Description	License	Date Added	Flag
`@radix-ui/react-accordion`	Accordion	MIT	2024-01-01	
`@radix-ui/react-alert-dialog`	Alert dialogs	MIT	2024-01-01	
`@radix-ui/react-avatar`	Avatar component	MIT	2024-01-01	

Library	Description	License	Date Added	Flag
@radix-ui/react-checkbox	Accessible checkbox	MIT	2024-01-01	
@radix-ui/react-collapsible	Collapsible sections	MIT	2024-01-01	
@radix-ui/react-dialog	Accessible modals	MIT	2024-01-01	
@radix-ui/react-dropdown-menu	Dropdown menus	MIT	2024-01-01	
@radix-ui/react-label	Form labels	MIT	2024-01-01	
@radix-ui/react-popover	Popover component	MIT	2024-01-01	
@radix-ui/react-progress	Progress indicators	MIT	2024-01-01	
@radix-ui/react-scroll-area	Custom scrollbars	MIT	2024-01-01	
@radix-ui/react-select	Accessible select	MIT	2024-01-01	
@radix-ui/react-separator	Visual separator	MIT	2024-01-01	
@radix-ui/react-slider	Range slider	MIT	2024-01-01	
@radix-ui/react-slot	Slot composition	MIT	2024-01-01	
@radix-ui/react-switch	Toggle switch	MIT	2024-01-01	
@radix-ui/react-tabs	Tab navigation	MIT	2024-01-01	
@radix-ui/react-toast	Toast notifications	MIT	2024-01-01	
@radix-ui/react-tooltip	Tooltip	MIT	2024-01-01	

State Management & Data Fetching

Library	Description	License	Date Added	Flag
@tanstack/react-query	Server state management	MIT	2024-01-01	
@tanstack/react-query-devtools	Query devtools	MIT	2024-01-01	
zustand	Lightweight state management with persistence	MIT	2026-01-19	

Styling & Animation

Library	Description	License	Date Added	Flag
tailwindcss	Utility-first CSS framework	MIT	2024-01-01	
tailwindcss-animate	Tailwind animation utilities	MIT	2024-01-01	
tailwind-merge	Merge Tailwind classes	MIT	2024-01-01	
class-variance-authority	Variant class management	Apache-2.0	2024-01-01	
clsx	Conditional classnames	MIT	2024-01-01	
framer-motion	Animation library	MIT	2024-01-01	
autoprefixer	CSS vendor prefixing	MIT	2024-01-01	
postcss	CSS transformation	MIT	2024-01-01	

Forms

Library	Description	License	Date Added	Flag
react-hook-form	Performant forms	MIT	2024-01-01	
@hookform/resolvers	Form validation resolvers	MIT	2024-01-01	

Icons & Visualization

Library	Description	License	Date Added	Flag
lucide-react	Icon library	ISC	2024-01-01	
recharts	Charting library	MIT	2024-01-01	
d3-geo	Geographic projections	ISC	2024-01-01	
react-simple-maps	Map components	MIT	2024-01-01	
topojson-client	TopoJSON parsing	ISC	2024-01-01	

Content Rendering

Library	Description	License	Date Added	Flag
react-markdown	Markdown rendering in React	MIT	2026-01-19	
react-syntax-highlighter	Code syntax highlighting	MIT	2026-01-19	

UI Utilities

Library	Description	License	Date Added	Flag
cmdk	Command palette	MIT	2024-01-01	
sonner	Toast notifications	MIT	2024-01-01	
react-resizable-panels	Resizable panel layouts	MIT	2024-01-01	

Category 3: Orchestration / User Libraries

Libraries that users or Cato can invoke for document processing, file conversion, and AI orchestration.

Document Processing

Library	Description	License	Date Added	Flag
mammoth	DOCX to HTML conversion	BSD-2-Clause	2024-01-01	
pdf-parse	PDF text extraction	MIT	2024-01-01	
xlsx	Excel file processing	Apache-2.0	2024-01-01	
pdfkit	PDF generation for AI reports	MIT	2026-01-22	

Library	Description	License	Date Added	Flag
exceljs	Excel generation for AI reports	MIT	2026-01-22	

Media Processing

Library	Description	License	Date Added	Flag
sharp	High-performance image processing	Apache-2.0	2024-01-01	
@ts-ffmpeg/fluent-ffmpeg	FFmpeg wrapper (TypeScript fork)	MIT	2026-01-20	

Collaboration (CRDT)

Library	Description	License	Date Added	Flag
yjs	CRDT implementation for real-time collaboration	MIT	2024-06-01	
y-protocols	Yjs protocol handlers	MIT	2024-06-01	

Archiving

Library	Description	License	Date Added	Flag
adm-zip	ZIP file handling	MIT	2024-01-01	
tar	TAR archive handling	ISC	2024-01-01	

Browser Automation

Library	Description	License	Date Added	Flag
playwright	Browser automation for web scraping	Apache-2.0	2024-01-01	

Category 4: CLI Libraries

Libraries used by the RADIANT CLI tool.

Library	Description	License	Date Added	Flag
commander	Command-line argument parsing	MIT	2024-01-01	
inquirer	Interactive CLI prompts	MIT	2024-01-01	
chalk	Terminal string styling	MIT	2024-01-01	

Library	Description	License	Date Added	Flag
ora	Terminal spinners	MIT	2024-01-01	
conf	Configuration storage	MIT	2024-01-01	
table	CLI table formatting	BSD-3-Clause	2024-01-01	

Category 5: Swift Libraries (macOS Deployer)

Libraries used by the Swift macOS deployer application.

Library	Description	License	Date Added	Flag
GRDB.swift	SQLite database toolkit	MIT	2024-01-01	

Category 6: Development & Testing Libraries

Libraries used only in development and testing environments.

Testing Frameworks

Library	Description	License	Date Added	Flag
vitest	Vite-native test runner	MIT	2024-01-01	
@vitest/coverage-v8	Vitest coverage with V8	MIT	2024-01-01	
@vitest/ui	Vitest UI	MIT	2024-01-01	
jest	JavaScript testing framework	MIT	2024-01-01	
ts-jest	TypeScript Jest transformer	MIT	2024-01-01	
@playwright/test	Playwright test runner	Apache-2.0	2024-01-01	
@testing-library/react	React testing utilities	MIT	2024-01-01	
jsdom	DOM implementation for Node.js	MIT	2024-01-01	
chai	Assertion library	MIT	2024-01-01	

Build Tools

Library	Description	License	Date Added	Flag
typescript	TypeScript compiler	Apache-2.0	2024-01-01	
ts-node	TypeScript execution	MIT	2024-01-01	
tsup	TypeScript bundler	MIT	2024-01-01	
esbuild	Fast JavaScript bundler	MIT	2024-01-01	
@vitejs/plugin-react	Vite React plugin	MIT	2024-01-01	

Linting & Formatting

Library	Description	License	Date Added	Flag
eslint	JavaScript linter	MIT	2024-01-01	
eslint-config-next	Next.js ESLint config	MIT	2024-01-01	
@typescript-eslint/eslint-plugin	TypeScript ESLint rules	MIT	2024-01-01	
@typescript-eslint/parser	TypeScript ESLint parser	BSD-2-Clause	2024-01-01	
husky	Git hooks	MIT	2024-01-01	
lint-staged	Lint staged files	MIT	2024-01-01	

Type Definitions

Library	Description	License	Date Added	Flag
@types/node	Node.js type definitions	MIT	2024-01-01	
@types/react	React type definitions	MIT	2024-01-01	
@types/react-dom	React DOM type definitions	MIT	2024-01-01	
@types/aws-lambda	AWS Lambda type definitions	MIT	2024-01-01	
@types/pg	PostgreSQL type definitions	MIT	2024-01-01	
@types/uuid	UUID type definitions	MIT	2024-01-01	
@types/jest	Jest type definitions	MIT	2024-01-01	
@types/inquirer	Inquirer type definitions	MIT	2024-01-01	
@types/d3-geo	D3 Geo type definitions	MIT	2024-01-01	
@types/topojson-client	TopoJSON type definitions	MIT	2024-01-01	
@types/adm-zip	ADM-ZIP type definitions	MIT	2024-01-01	
@types/fluent-ffmpeg	FFmpeg type definitions	MIT	2024-01-01	
@types/jsonwebtoken	JWT type definitions	MIT	2024-01-01	
@types/pdf-parse	PDF Parse type definitions	MIT	2024-01-01	
@types/sharp	Sharp type definitions	MIT	2024-01-01	

License Summary

License	Count	Commercial Use
MIT	85+	Free
Apache-2.0	35+	Free
ISC	5	Free
BSD-2-Clause	2	Free
BSD-3-Clause	1	Free

Total Libraries: 120+
 Copyleft Flagged: 0
 Non-Commercial Flagged: 0
 Review Required: 0

Adding a New Library

When adding a new library, you **MUST**:

1. **Check the license** - Identify the license type
2. **Categorize it** - Determine which category it belongs to
3. **Update this document** - Add it to the appropriate table
4. **Include all fields**: Name, Description, License, Date Added, Flag
5. **If flagged** - Document justification in "Flagged Libraries" section below

License Classification Process

License Type	Flag	Action
MIT, Apache-2.0, ISC, BSD		Auto-approved
LGPL-2.1, LGPL-3.0	REVIEW	Flag, legal review recommended
MPL-2.0	REVIEW	Flag, file-level copyleft
GPL-2.0, GPL-3.0	COPYLEFT	Flag, document isolation strategy
AGPL-3.0	COPYLEFT	Flag, document network usage
SSPL	NON-COMMERCIAL	Flag for immediate review
Commons Clause	NON-COMMERCIAL	Flag for immediate review
Proprietary	UNKNOWN	Flag, verify licensing terms
Unknown	UNKNOWN	Flag, must verify before production

Flagged Libraries

Libraries with non-permissive licenses that require documentation.

Library	License	Flag	Justification	Reviewed By	Date
—	—	—	No flagged libraries yet	—	—

Removing a Library

When removing a library:

1. **Update this document** - Remove from the appropriate table
2. **Add to removal log** - Document in the "Removal History" section below
3. **Update package.json** - Remove from all relevant package files

Removal History

Library	Category	Removal Date	Reason
`fluent-ffmpeg`	Media Processing	2026-01-20	Deprecated/unmaintained, replaced with `@ts-ffmpeg/fluent-ffmpeg`
`@types/fluent-ffmpeg`	Type Definitions	2026-01-20	No longer needed, replacement includes types

Policy: This document is maintained under `/.windsurf/workflows/open-source-library-policy.md`