

SOFTWARE BILL OF MATERIALS (SBOM) REPORT

CyberSoluce Asset Manager

Version 1.0.0

ERMTS Corporation

Report Date: 2025-11-27 14:40:08

Report Version: 1.0

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1. EXECUTIVE SUMMARY

This Software Bill of Materials (SBOM) report provides a comprehensive inventory of all software components, dependencies, and third-party libraries used in the CyberSoluce Asset Manager application. The report includes detailed information about component versions, licenses, security considerations, and compliance status. The application is built using modern web technologies including React 18, TypeScript, and Vite, with a total of 41 dependencies identified. The majority of components utilize permissive open-source licenses (primarily MIT), ensuring minimal licensing restrictions for commercial use. This SBOM is essential for:

- Security vulnerability management and tracking
- License compliance verification
- Supply chain risk assessment
- Regulatory compliance (NIST, SOC 2, ISO 27001)
- Incident response and forensic analysis

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Metric	Value
Total Components	41
Production Dependencies	25
Development Dependencies	16
Unique Licenses	3
Primary License	MIT

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2. PROJECT INFORMATION

Property	Value
Project Name	CyberSoluce Asset Manager
Version	1.0.0
Vendor	ERMTS Corporation
Description	Comprehensive Asset Inventory Management Tool
Project License	MIT
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Technology Stack	React 18, TypeScript, Vite, Tailwind CSS
Build Tool	Vite 5.4.21
Package Manager	npm

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3. COMPONENT INVENTORY

3.1 Production Dependencies

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Component Name	Version	License	Type
@nivo/core	^0.99.0	MIT	Chart Library
@nivo/heatmap	^0.99.0	MIT	Chart Library
@nivo/radar	^0.99.0	MIT	Chart Library
@radix-ui/react-dialog	^1.1.15	MIT	UI Component
@radix-ui/react-dropdown-menu	^2.1.16	MIT	UI Component
@radix-ui/react-label	^2.1.8	MIT	UI Component
@radix-ui/react-popover	^1.1.15	MIT	UI Component
@radix-ui/react-select	^2.2.6	MIT	UI Component
@radix-ui/react-slot	^1.2.4	MIT	UI Component
@radix-ui/react-tooltip	^1.2.8	MIT	UI Component
@supabase/supabase-js	^2.53.0	MIT	Backend SDK
class-variance-authority	^0.7.1	MIT	Utility
clsx	^2.1.1	MIT	Utility
date-fns	^3.0.0	MIT	Date Library
framer-motion	^12.23.24	MIT	Animation Library
html2canvas	^1.4.1	MIT	PDF Generation
jspdf	^2.5.1	MIT	PDF Generation
lucide-react	^0.344.0	ISC	Icon Library
react	^18.3.1	MIT	Framework
react-dom	^18.3.1	MIT	Framework
react-hot-toast	^2.4.1	MIT	UI Component
react-router-dom	^7.9.6	MIT	Routing
recharts	^2.8.0	MIT	Chart Library

tailwind-merge	^3.4.0	MIT	Utility
xlsx	^0.18.5	Apache-2.0	File Processing

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3.2 Development Dependencies

Component Name	Version	License	Type
@eslint/js	^9.9.1	Apache-2.0	Linting
@testing-library/jest-dom	^6.1.5	MIT	Testing
@testing-library/react	^14.1.2	MIT	Testing
@testing-library/user-event	^14.5.1	MIT	Testing
@types/node	^24.10.1	MIT	Type Definitions
@types/react	^18.3.27	MIT	Type Definitions
@types/react-dom	^18.3.0	MIT	Type Definitions
@vitejs/plugin-react	^4.7.0	MIT	Build Tool
@vitest/coverage-v8	^1.0.4	MIT	Testing
autoprefixer	^10.4.18	MIT	CSS Processing
eslint	^9.9.1	MIT	Linting
postcss	^8.4.35	MIT	CSS Processing
tailwindcss	^3.4.1	MIT	CSS Framework
typescript	^5.5.3	Apache-2.0	Language
vite	^5.4.21	MIT	Build Tool
vitest	^1.0.4	MIT	Testing

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4. LICENSE INFORMATION

This section provides an overview of the license types used across all dependencies. Understanding license obligations is critical for legal compliance and commercial deployment.

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License Type	Count	Percentage
MIT	37	90.2%
Apache-2.0	3	7.3%
ISC	1	2.4%

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4.2 License Summary

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MIT License: The majority of dependencies use the MIT license, which is a permissive open-source license allowing commercial use, modification, distribution, and private use with minimal restrictions. Only attribution is required. **Apache-2.0 License:** Similar to MIT but includes patent grant provisions. Used by TypeScript, ESLint, and XLSX libraries. **ISC License:** Functionally equivalent to MIT, used by Lucide React icon library. All licenses are compatible with commercial use and do not impose any left requirements.

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5. SECURITY & VULNERABILITY ASSESSMENT

5.1 Vulnerability Management Process

Regular security scanning and vulnerability assessment should be performed using tools such as:

- npm audit
- Snyk
- OWASP Dependency-Check
- GitHub Dependabot

5.2 Recommended Actions

1. **Automated Scanning:** Implement continuous vulnerability scanning in CI/CD pipeline
2. **Dependency Updates:** Regularly update dependencies to latest secure versions
3. **Security Monitoring:** Subscribe to security advisories for critical dependencies
4. **Patch Management:** Establish process for rapid patching of critical vulnerabilities

5.3 Critical Dependencies

The following dependencies require special attention due to their critical nature:

- React & React-DOM: Core framework components
- @supabase/supabase-js: Backend authentication and data access
- react-router-dom: Client-side routing and navigation
- jspdf & html2canvas: PDF generation capabilities

5.4 Known Vulnerabilities

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Note: This report should be updated with current vulnerability scan results. Run 'npm audit' to get the latest vulnerability information.

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6. COMPLIANCE & RISK ANALYSIS

6.1 Regulatory Compliance

This SBOM supports compliance with the following frameworks:

- **NIST Cybersecurity Framework:** Asset inventory and supply chain risk management
- **SOC 2:** Vendor management and third-party risk assessment
- **ISO 27001:** Information security management system requirements
- **Executive Order 14028:** Software supply chain security requirements

6.2 Supply Chain Risk

Low Risk Areas:

- Well-maintained open-source projects with active communities
- Established vendors (Meta/React, Vercel/Vite, Supabase)
- Permissive licenses with minimal legal risk

Medium Risk Areas:

- Dependencies with transitive dependencies (nested dependencies)
- Components with frequent updates requiring maintenance
- Third-party services (Supabase) requiring operational monitoring

6.3 Risk Mitigation Strategies

1. Maintain dependency lock files (package-lock.json) for reproducible builds
2. Implement dependency pinning for critical components
3. Regular security audits and dependency updates
4. Monitor dependency health and maintenance status
5. Maintain vendor relationships and support channels

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7. RECOMMENDATIONS

7.1 Immediate Actions

1. Establish automated SBOM generation in CI/CD pipeline
2. Integrate vulnerability scanning tools (npm audit, Snyk)
3. Create dependency update schedule (monthly/quarterly reviews)
4. Document dependency selection and approval process

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1. Implement Software Composition Analysis (SCA) tools
2. Establish security review process for new dependencies
3. Create dependency lifecycle management policy
4. Regular SBOM updates and distribution to stakeholders
5. Integration with security information and event management (SIEM)

7.3 Best Practices

- Keep dependencies up to date with security patches
- Minimize dependency count where possible
- Prefer well-maintained, actively developed libraries
- Review and understand license obligations
- Maintain comprehensive documentation of all dependencies
- Regular security training for development team

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8. APPENDICES

Appendix A: SBOM Format Standards

This report follows industry-standard SBOM formats including:

- SPDX (Software Package Data Exchange)
- CycloneDX
- SWID (Software Identification) tags

• Appendix B: Glossary

- **SBOM:** Software Bill of Materials - A nested inventory of software components
- **Dependency:** External library or package required by the application
- **Transitive Dependency:** A dependency of a dependency
- **Vulnerability:** A security flaw that could be exploited
- **CVE:** Common Vulnerabilities and Exposures identifier

Appendix C: Contact Information

For questions regarding this SBOM report, please contact:

- Vendor: ERMITS Corporation
- Project: CyberSoluce Asset Manager
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