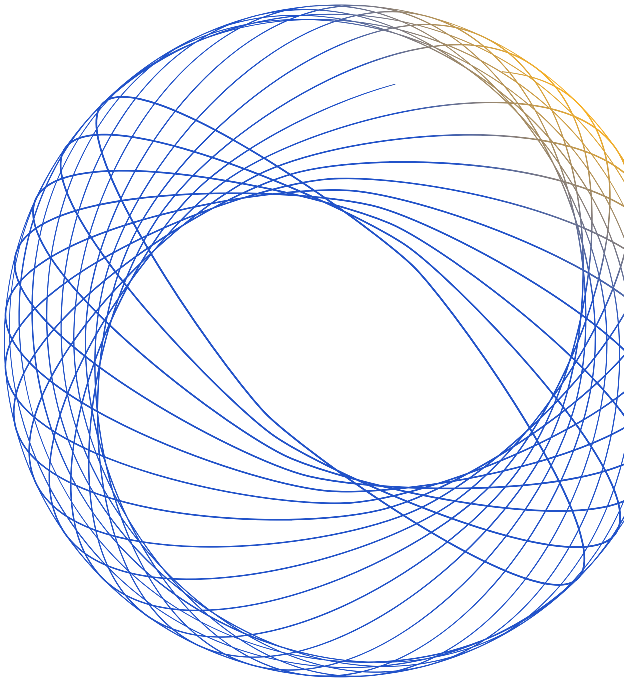
ThreatModeler®

ThreatModeler Technical DATA SHEET

DATA SHEET

Model Faster. Work Smarter.



ThreatModeler streamlines every stage of the threat modeling process, helping teams visualize, identify, mitigate, and document risks with greater speed, clarity, and confidence. Built to support applications, devices, and cloud infrastructure at enterprise scale, ThreatModeler embeds secure-by-design practices into existing workflows while applying AI in deliberate, governed ways. The platform preserves architectural context, traceability, and reviewability as systems evolve, enabling consistent, auditable threat modeling across complex, hybrid environments.

Visualize

Accelerate model creation and increase visibility across attack surfaces.
ThreatModeler makes it easy to build models from scratch or reuse existing artifacts and templates, reducing time to value while increasing consistency.

BRING YOUR OWN AI (BYOAI)

Leverage approved large language models, such as Azure OpenAI and Google Gemini, within ThreatModeler by selecting which AI models are used for specific capabilities. BYOAI enables organizations to apply AI assistance within a governed, deterministic environment, where AI operates on defined architectural context, frameworks, and approved threat and security content to produce explainable, auditable outcomes.

CANVAS

Utilize the drag-and-drop interface with Smart Search and AI-powered component suggestions, enabling faster and more complete modeling.

DOCUMENT-DRIVEN MODELING

Generate threat models with AI assistance using existing design documentation containing text and images. This enables teams to build models from prior architectural artifacts while preserving structure, reviewability, and alignment with established threat modeling practices.

REAL-TIME PREDICTIVE INSIGHTS

Deliver continuous, context-aware insights as threat models evolve, highlighting gaps and areas requiring attention to support stronger coverage and consistency over time.

AI-POWERED DIAGRAM IMPORT

Quickly turn architecture diagrams and cloud infrastructure files (Terraform, Visio, Draw.io, Miro, Microsoft TMT, JPEG, PNG) into actionable models with intelligent import.

VOICE-ENABLED AI ASSISTANT

Use voice commands to create models, ask questions, or get in-product guidance. The AI Assistant lets you describe architectures aloud and provides spoken answers to help you work faster and resolve issues hands-free.

TEMPLATES

Choose from 500+ pre-built models covering popular technologies and use cases, or build your own to standardize and accelerate adoption across teams.

NESTING

Utilize patented model chaining and nesting to embed models within other models, offering the ultimate in reuse and visibility.

CLOUD MODELING

Consistently model cloud architectures and hybrid deployments across AWS, Azure, and GCP environments.

INTELLIGENT CLOUD MAPPING[1]

Automatically import, group, arrange, and link cloud components with detailed metadata, providing the advanced clarity needed to visualize risks across large-scale environments.

IAC INTEGRATION[2]

Use the IaC-Assist plugin in VS Code to generate threat models directly from code and track security requirements.

COLLABORATION & USABILITY

Use inline editing, group comments, custom colors, persistent filters, @mentions, and an enhanced Help & Support Center to improve alignment across security, DevOps, and compliance teams.

Identify

Prioritize the risks that matter most with clear, actionable insights.
ThreatModeler enables teams to understand attacker paths, apply trusted frameworks, and clearly identify requirements.

ATTACK PATH VISUALIZATION

Record and replay how an attacker could move through your architecture, with annotations for threats and countermeasures to demonstrate real-world attack scenarios.

STRIDE THREAT CATEGORIZATION

Categorize threats by STRIDE categories, simplifying adoption and driving consistency across teams.

MODEL-LEVEL CUSTOM THREATS AND SECURITY REQUIREMENTS

Create and add custom threats and security requirements within your model. Promote them to the global library for broader visibility and control.

INTELLIGENT RISK INSIGHTS

Get AI-powered summaries that translate complex threats and security requirements into clear priorities, showing what's most at risk and what to address first.

THREAT LIBRARIES & FRAMEWORKS

Access continuously updated libraries and security requirements mapped to MITRE ATT&CK, OWASP Top 10, CAPEC, and D3FEND, providing you with the ultimate in flexibility and choice without the overhead.

CUSTOM FIELDS

Apply user-defined metadata across components, threats, security requirements, test cases, and threat models to capture ownership, classification, environment, or other organizational context. Custom Fields enable consistent filtering, reporting, and governance across models without modifying core threat or security content.

CVSS 4.0 SUPPORT

Score threats using CVSS 4.0, the latest version of the FIRST standard for vulnerability scoring, with clear version labels for easy comparison across models.

RESIDUAL RISK INSIGHTS

Identify threats that remain after countermeasures are applied, enabling teams to prioritize gaps, allocate resources effectively, and minimize exposure.

SAVED VIEWS

Save and share customized filters, tags, and layouts to reduce triage time and allow each team to focus on what matters most.

Mitigate

Close security gaps earlier in the development lifecycle while moving at full speed. ThreatModeler delivers intelligent recommendations, automated workflows, and integrations to help teams act quickly and consistently.

RISK-AWARE SECURITY CONTROLS

Define security controls to mitigate threats or implement security requirements. Security controls can then be mapped to associated threats and security requirements to model how they are protected and validated.

WORKFLOW AUTOMATION

Programmable rules-based automation with triggers and context, including cloud-native metadata, workflows are applied consistently, and redundant tasks are eliminated.

CONTENT UPDATE PREVIEW AND CONTROL

Review and approve updates to shared threat and security content before they are applied to existing models, providing visibility into changes, preventing unintended downstream impact, and maintaining consistency as content evolves.

GOVERNANCE CONTROLS

Enforce policies with scoped rules, multi-level approvals, and auto-versioning to support enterprise-scale consistency and audit traceability.

DEVSECOPS INTEGRATIONS

Bi-directionally sync security requirements with Jira, Azure Boards, and ServiceNow AVR. Create tickets in bulk, track progress in real time, and keep remediation flowing inside developer workflows.

ENTERPRISE SECURITY & ACCESS

Enforce enterprise-grade security with role-based permissions, SSO, and MFA to ensure scalable, compliant adoption across global teams.

Document & Report

Simplify reporting to any board or governing body.
ThreatModeler makes it easy to monitor and prove secure by design and framework compliance.

OPERATIONAL AND COMPLIANCE REPORTS

Generate built-in Audit, Developer, and Compliance reports, with automated coverage for 180+ frameworks (e.g. PCI DSS, NIST, ISO, OSFI, GDPR, HIPAA, FDA 524B) to reduce audit prep time and prove regulatory alignment. Create Custom Reports to tailor content by tag, threat, or category and deliver detailed insights to key stakeholders. (See technical specifications below.)

INTERACTIVE DASHBOARDS

Monitor risk posture and compliance in real time with built-in dashboards. Customize views by model status, tags, or categories to support team-specific workflows and streamline reviews.

CISO PROGRESS REPORT

Demonstrate security posture transformation with executive-level summaries that highlight mitigation progress, top 10 security requirements, and threat traceability.

Technical Specifications

Supported Formats and Sources
Image (JPG, PNG), Draw.io, Microsoft TMT, Visio, CloudFormation, Azure Resource Manager (including Resource Groups), MIRO, HOPEX, Lucid, LeanIX, JSON, Terraform Plan (via IaC-Assist)

INTEGRATIONS

Jira, Azure Boards, Azure DevOps, ServiceNow (including AVR and Request Items), Mantis, Jenkins, Azure Pipelines, GitHub, GitLab, Bitbucket, BiZZdesign, ArmorCode, HashiCorp

AUTHENTICATION

- Local, SAML, Active Directory with SSO, Azure Service Principal (for ALM integrations)
- Multi-Factor Authentication (MFA) support for enhanced login security
- Keyless authentication for GCP integrations via Workload Identity Federation
- SSO login tracking and audit visibility for UI and API access

NOTIFICATION METHODS

- Email
- Web

COMPLIANCE STANDARDS

- NIST: 800-53 (rev5), 800-171 (rev3), CSF v2.0, Privacy Framework v1.0, AI RMF
- Security: CIS CSC (v8), PCI DSS (4.0), ISO/SAE 21434, IEC 62443-4-2
- Privacy: GDPR (EU), CSA CCM v4

COMPONENT LIBRARIES

AWS, Azure, GCP AI/ML, SAP, Kubernetes, Automobile, Medical Devices, Critical Infrastructure, ThreatModeler

MODELING FRAMEWORKS

STRIDE, MAESTRO, VAST, OWASP Top 10, and custom frameworks

THREAT & SECURITY SOURCES

Organization	Threat Source	Security Requirement
MITRE	ATT&CK ATLAS CAPEC MITRE ATT&CK for Containers EMB3D	ATT&CK Mitigations ATLAS Mitigations CAPEC D3FEND
OWASP	Top 10 (Web, API, vMobile, IoT, ML, LLM) OWASP Agentic AI Threats and Mitigations (2025)	Cheat Sheet Series
Cloud Providers	–	AWS Documentation Azure Documentation GCP Documentation Kubernetes Documentation
CSA	Top 11 2024 (Azure and AWS only) Top 12 2018	–
Microsoft	Threat Matrix for Kubernetes	–
CWE	Where applicable	–
CIS	–	Yes
WP.29	Yes	Yes
Mobile	iOS Documentation Android Documentation	iOS Documentation Android Documentation

Discover how ThreatModeler can help your organization model faster, work smarter, and stay ahead of risk.

Schedule your personalized demo today.

[1] Intelligent Cloud Mapping requires a CloudModeler license.
[2] IaC integration requires an IaC-Assist license.