JioCloud

DATA SHEET

Application Performance Management

Full-stack application performance management for cloud-native and hybrid environments.

Deep Tracing is the Application Performance Management (APM) capability within Jio AI Cloud-CloudXP Observability. It delivers end-to-end visibility from browser and mobile clients through APIs, microservices, message queues, and databases-so platform, SRE, and engineering teams can see how applications behave in production, not just whether they are up. Built on auto-instrumentation, Deep Tracing unifies traces, metrics, and logs in a single observability workflow. AI-assisted root cause analysis correlates signals across tiers to surface likely failure points and remediation context, reducing investigation time and escalation cycles. Whether you operate cloud-native microservices, hybrid workloads, or on-premises infrastructure, Deep Tracing maps service dependencies in real time, connects user experience to back-end health, and helps teams resolve regressions before they breach SLAs or impact revenue-critical flows.

END-TO-END DISTRIBUTED TRACING	REAL USER MONITORING (WEB & MOBILE)	AI-POWERED ROOT CAUSE ANALYSIS	INTELLIGENT ALERTING & ANOMALY DETECTION

Core Capabilities

AI-Powered Root Cause Analysis
Automatically correlates signals across application tiers, infrastructure, and databases to identify likely root causes and deliver actionable remediation context-so teams spend less time triaging and more time fixing.

Real User Monitoring (Web & Mobile)
Captures page loads, API calls, and user interactions across web browsers and mobile apps in real time, connecting front-end experience directly to back-end service health.

Database Performance Visibility
Tracks database interactions-including slow queries, connection pool health, response times, and error rates-across Oracle, PostgreSQL, MySQL, MongoDB, and Cassandra.

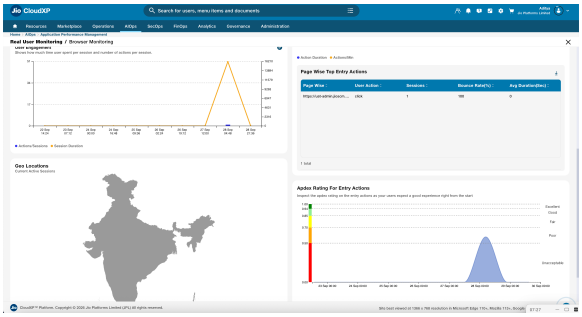
Transaction Scorecard & Business Flow Monitoring
Classifies transactions against performance thresholds and links application health to business-critical workflows-supporting proactive intervention on revenue-impacting paths.

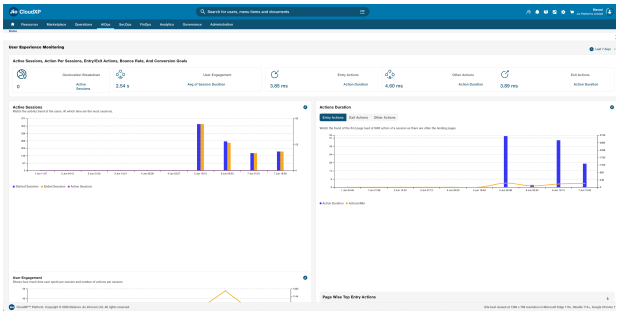
End-to-End Distributed Tracing
OpenTelemetry-native tracing captures the complete journey of every request across microservices, APIs, and data stores, with drill-down from service health to individual spans, queries, and external calls.

Unified Service Topology
Interactive, real-time service maps visualize dependencies with health indicators-helping teams spot cascading failures, isolate blast radius, and prioritize during incidents.

Intelligent Alerting & Anomaly Detection
Continuously learns normal application behavior and flags latency spikes, error patterns, and performance drift via threshold-based and anomaly-driven alerts.

Centralized Control & Custom Dashboards
Configure tracing parameters, manage onboarding, and tailor dashboards for unified monitoring across teams and environments.





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What It Does

Traces every request end-to-end across distributed services, APIs, databases, and infrastructure with waterfall views and flame charts that expose where latency accumulates.

Accelerates incident response with AI-driven root cause analysis that connects errors, latency spikes, and dependency failures across the stack.

Aligns technical performance with business outcomes via transaction scoring and business-flow monitoring that tie application health to critical workflows.

Correlates user experience with backend health by linking Real User Monitoring (RUM) for web and mobile to server-side traces and service topology.

Detects performance drift early through intelligent alerting, anomaly detection, and machine learning-driven baselines that flag deviations from normal behavior.

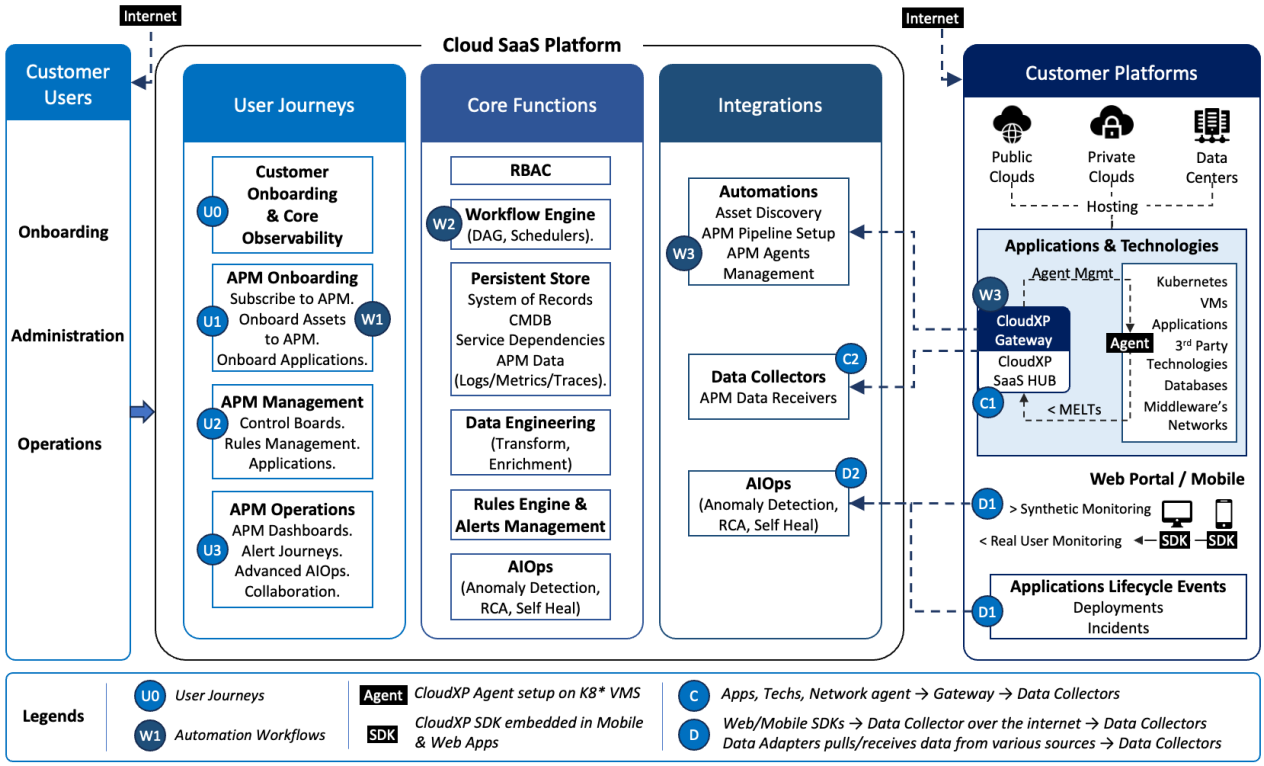
Technologies Supported

Mobile RUM	**OS Support**	Android 6.0 (API 23) through Android 15+ (API 35+); iOS 14–16+ & iOS 13 & below
Mobile RUM	**Languages & UI**	Kotlin 2.0+, Java 1.8+, Swift 5.5+, Jetpack Compose, NDK/C++
Mobile RUM	**Frameworks**	React Native 0.71+, Flutter 3.32+
Mobile RUM	**Build Tools**	AGP 8.3+, Gradle 8.0+
Mobile RUM	**Networking**	OkHttp, Retrofit
Browser RUM	**Frameworks**	Angular 12+, React 16+, Vue.js 3+ (Vue2 supported), Next.js 12+, ES5+HTML/JS
Browser RUM	**Browsers**	Chrome 80+, Firefox 75+, Safari macOS 13.1+, Safari iOS 14+, Edge 80+, Samsung Internet 13+, Opera 67+, IE 11
Backend & APIs	**Languages**	Java, Kotlin, Node.js, Python, Go, .NET/C#, PHP, JavaScript, Erlang/Elixir, Ruby, C++
Backend & APIs	**Frameworks**	Spring Boot, Micronaut, Quarkus, Ktor, Express, FastAPI, Django, gRPC, ASP.NET Core, Laravel, and opentelemetry-cpp

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Architecture



Use Cases

Post-deployment regression

A new release pushes to production. Error rates climb on a payment microservice, but infrastructure metrics look nominal. Deep Tracing correlates the deployment with trace-level span failures, surfaces the affected endpoint and dependency chain, and gives engineers a direct path from service map to failing span.

Kafka / streaming lag

A consumer group falls behind on an event-driven pipeline. Traces across producers, brokers, and consumers expose where processing stalls. Combined with log-based alerting on error patterns, teams isolate the lagging stage before downstream workflows degrade.

Checkout latency cascade

Checkout p95 latency breaches thresholds during peak traffic. RUM shows slow mobile interactions; backend traces reveal a downstream inventory API consuming disproportionate time. Unified topology highlights the bottleneck while transaction scoring flags the business-critical flow.

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