

Data Privacy Whitepaper

Secure Data and AI From Code-to-Cloud

Dynamic Data Privacy Management for AI Era

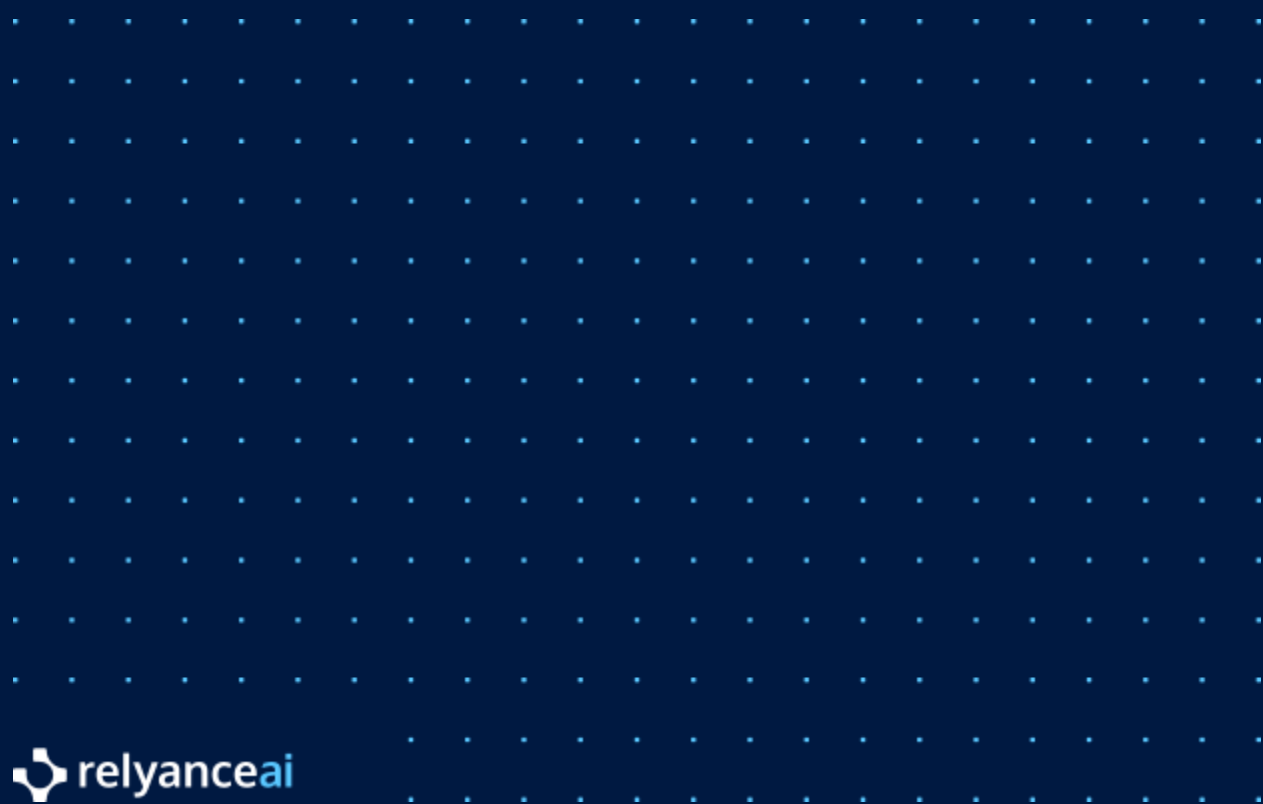


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Executive Summary

The rapid rise of AI and increasingly fragmented regulations have widened the gap between innovation and compliance, exposing the limits of traditional privacy tools. Relyance AI's Data Privacy Suite is purpose-built for this new reality, delivering an AI-native, automated platform that unifies discovery, mapping, consent, assessments, and records into a living, auditable source of truth. It provides real-time visibility and control over sensitive data across its entire lifecycle, critically including its use within AI models and applications. For security, privacy, and legal teams, this means eliminating manual effort, reducing risk exposure, and generating always-current compliance artifacts. By replacing siloed, reactive processes with a proactive and connected approach, organizations can safeguard against penalties and reputational damage while enabling business innovation with confidence.

The Evolving Landscape of Data Privacy: Navigating Complexity in an AI-Driven World

The digital era has fundamentally transformed data, from a static asset into a dynamic, ever-expanding torrent across countless interconnected systems. This shift presents immense opportunities but also unprecedented risks. Today, data privacy is no longer just about compliance; it's a cornerstone of trust, a strategic differentiator, and a non-negotiable imperative.

The New Data Reality: Beyond Control

Traditional privacy approaches struggle to keep pace with today's data. Organizations face:

- **Explosive Growth:** Vast, often uncatalogued data lakes driven by every digital interaction.
- **Decentralization:** Data dispersed across multi-cloud, SaaS, partner ecosystems, and edge devices.
- **Dynamic Nature:** Constant data movement—copied, transformed, analyzed, shared—making real-time lineage understanding nearly impossible.



- **Shadow IT:** Unsanctioned data management outside central oversight, creating significant privacy blind spots.

This sprawling, opaque environment makes identifying, classifying, and protecting personal information a monumental challenge.

The AI Imperative: New Fronts for Privacy Risk

The rise of Artificial Intelligence (AI) profoundly amplifies these complexities. AI's vast data requirements introduce critical new privacy challenges:

- **Data Hunger at Scale:** Mass data collection for training models raises questions about consent, purpose, and minimization.
- **Opaque Decision-Making:** "Black box" AI models hinder understanding of decisions impacting individuals, conflicting with transparency and explainability mandates.
- **Re-identification Risks:** Powerful AI inference can re-identify seemingly anonymized data, eroding traditional privacy safeguards.
- **Algorithmic Bias:** AI models trained on biased data can perpetuate discrimination, leading to legal and reputational damage.
- **Data Leakage:** Generative AI introduces new vectors for sensitive data exposure through malicious prompts or unintentional training data leaks.
- **Third-Party AI Risk:** Integrating external AI services extends privacy burdens to vendor practices.

The Regulatory Onslaught: A Fragmented Minefield and the Innovation Drag

A rapidly evolving regulatory landscape further complicates matters. Governments worldwide are enacting stringent, often overlapping data protection laws like GDPR, CCPA/CPRA, and emerging AI-specific regulations such as the EU AI Act. These laws often require specific operational workflows and maintenance of compliance artifacts that are both difficult to implement and can conflict with business objectives such as R&D, data monetization, and even security.

- Navigating this dynamic web requires organizations to:



- Maintain real-time data visibility.
- Prove lawful processing.
- Manage individual rights at scale.
- Conduct proactive privacy impact assessments.
- Maintain accurate Records of Processing Activities (RoPA).
- Demonstrate accountability and governance to regulators.

Crucially, fulfilling these obligations under tight deadlines can become a significant drain on resources, directly impacting an organization's capacity for innovation:

- **Data Subject Requests (DSRs):** With deadlines often as short as 30 days under GDPR, manually locating, compiling, and anonymizing data across scattered sources and disparate systems can consume hundreds of hours per request.
- **Consent Management:** Ensuring continuous, granular, and auditable consent across multiple channels (websites, apps, IoT) and data uses is a complex, ongoing task. Manually managing consent lifecycles, withdrawal requests, and preferences without real-time enforcement leads to significant operational overhead and compliance gaps.
- **Privacy Assessments (PIAs/DPIAs and beyond):** Essential for new products, features, or AI initiatives, manual PIAs are often lengthy, resource-intensive processes involving multiple stakeholders, interviews, and document reviews. They can delay time-to-market by weeks or even months, especially for complex projects or those involving novel AI applications.
- **Records of Processing Activities (RoPA):** While foundational, keeping an accurate RoPA is not a one-time exercise. It's a 'living document' that requires continuous updates as data flows change, new systems are introduced, purposes evolve, or vendors are onboarded. Manually updating RoPA, often across multiple spreadsheets and through cross-departmental interviews, is a tedious, error-prone process that consumes substantial time and resources, making it nearly impossible to maintain a truly current and auditable record.

The sheer time and effort spent on these manual compliance tasks not only burdens legal and privacy teams but also diverts valuable engineering and IT resources away from strategic initiatives, hindering an organization's ability to develop new products, optimize services, and stay competitive.



The Cost of Inaction: From Burden to Breach

- Failure to adapt carries severe consequences:
- Exorbitant Fines: Multi-million dollar penalties are increasingly common.
- Reputational Damage: Breaches and missteps erode consumer trust and harm brand image.
- Operational Disruption: Manual processes are inefficient bottlenecks, stifling innovation.
- Legal Scrutiny: Increased enforcement leads to costly litigation.
- Stifled Innovation: Fear of non-compliance can prevent leveraging new technologies.

The traditional, reactive approach to privacy is unsustainable. Organizations urgently need a **proactive, intelligent, and integrated solution built for the dynamic, AI-driven reality of today and tomorrow.**

Beyond Reactive Compliance: Unifying Privacy Operations with Dynamic Data Journeys

The era of reactive, siloed privacy compliance is over. In today's hyper-connected, AI-driven world, managing personal data solely through manual assessments, fragmented tools, and after-the-fact reporting is a recipe for escalating risk, operational drain, and stifled innovation. Relyance AI introduces a revolutionary approach purpose-built to continuously understand, govern, and control how personal and sensitive data flows through modern digital ecosystems.

By mapping every "data journey" from its origin in code, through cloud infrastructure, SaaS applications, and even into complex AI systems and contractual obligations, Relyance AI provides continuous, context-aware visibility and control over personal data flows that were previously opaque. Without real-time, end-to-end visibility into these dynamic journeys, privacy leaders are left with critical blind spots that jeopardize compliance, invite regulatory penalties, and erode customer trust. In the AI-driven era, organizations demand a new approach that illuminates precisely how personal data is collected, used, and transformed across complex, evolving ecosystems – in real time and in context.



“Privacy leaders need to see the entire personal data journey, not just static snapshots. You need to know how data moves, its purpose at each step, who touches it, and what happens at every stage of its lifecycle. That's exactly what Relyance AI delivers.”

Relyance AI's **Data Journeys** elevate data lineage to the next level by capturing the full end-to-end story of each personal data element in your system. Unlike isolated, column-level lineage within a single database, Data Journeys provide an ecosystem-wide view: they trace personal data from its original point of collection, through every transformation, microservice, API call, **across international borders**, and to every third-party touchpoint, all the way to storage or deletion.

By starting at the source (code) and ingesting signals from live systems, Relyance AI can illuminate personal data flows with unparalleled precision and context. This continuous lineage map allows privacy teams to see every hop and transformation in context – from an initial data collection in a web application, through microservice pipelines and databases, into model training, or **to a recipient in a third country** – along with the **purpose, legal basis, data subject identity, sensitive data classification, and critically, the associated transfer mechanism and legal obligations** at each step.

The Relyance platform provides a visual, intuitive view of the entire journey of personal data across applications, services, infrastructures, and third parties – **including explicit call-outs for data transfers, particularly those from one country to another**. It reveals the underlying purpose and context of processing (the “why” of data usage) and automatically identifies specific legal obligations triggered by cross-border transfers. Critically, it highlights privacy risks and potential violations throughout the data flow and at every node, providing actionable remediation to mitigate those risks proactively. This comprehensive view ensures that your **Records of Processing Activities (RoPA)** are automatically enriched with accurate, real-time data transfer details, including the identification of the third country or international organization and documentation of suitable safeguards, as mandated by privacy regulations.

The power of this continuous, contextual data mapping extends directly to empowering core privacy operations:

- **Accelerated Data Subject Requests (DSRs):** The deep visibility into all data journeys and their locations directly empowers DSR fulfillment. It provides the necessary insights to quickly identify, locate, and process data for individual rights requests, replacing fragmented, manual searches with efficient, auditable workflows and enabling faster



response times and less manual intervention.

- **Robust Consent Management & Enforcement:** By linking data usage to its precise journey, Relyance AI ensures organizations are consistently adhering to stated consent purposes. The platform's real-time understanding of data flows enables precise enforcement of consent preferences, verifying that data is only used for the purposes for which consent was explicitly given, across all systems.
- **Streamlined Privacy Assessments (PIAs/DPIAs):** The platform's rich, automatically generated data map and context about data processing activities serve as a dynamic knowledge base for privacy assessments. This dramatically reduces the manual effort required to complete PIAs and DPIAs, enabling privacy teams to pull from existing, verified information, accelerate assessment completion, and ensure accuracy, especially for complex or AI-driven projects.

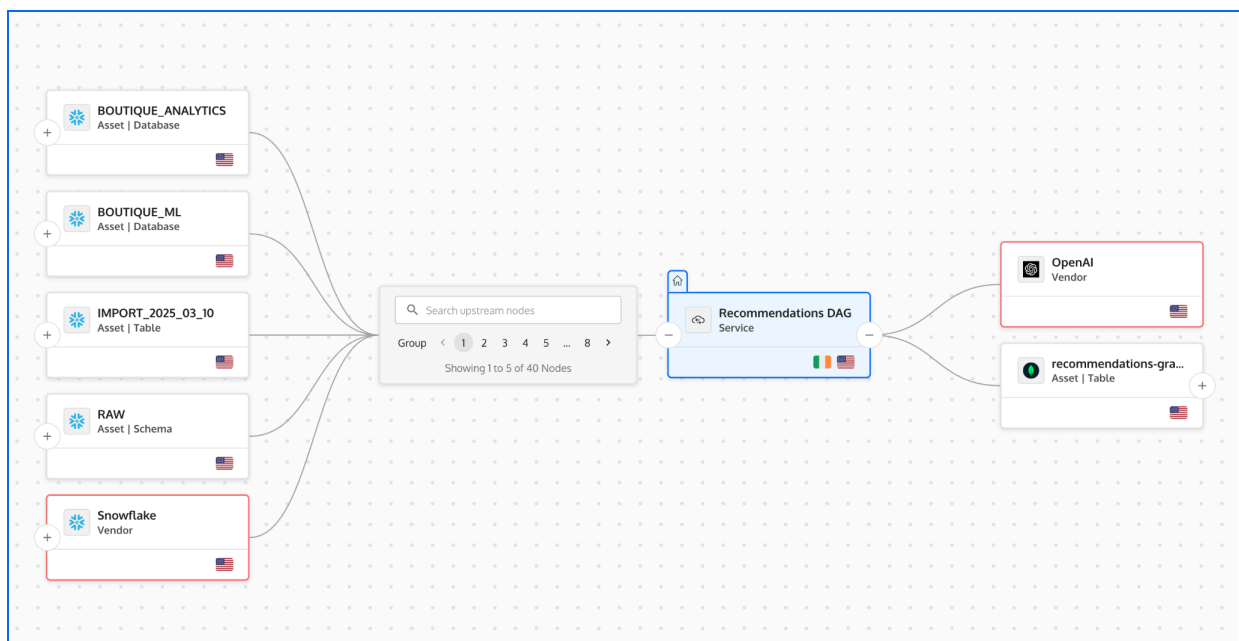


Fig 1. Relyance Data Journeys™: End-to-End Personal Data Flow Visualization with Transfer Markers

Critically, Data Journeys capture context that is vital for privacy. The platform doesn't just show that personal data moved from point A to B; it also records *why* – linking each data flow to the specific business process, application, or AI algorithm that generated or used it, **and annotating legal frameworks for international transfers**. This context-aware approach directly addresses

critical compliance questions and regulatory requirements around **purpose limitation, lawful processing, data minimization, AI transparency, and particularly, the complex demands of cross-border data transfer mechanisms (e.g., SCCs, BCRs, adequacy decisions)**. Stakeholders and auditors can finally get visual, audit-ready proof of how personal data is used, combined, and transformed, with explanations that make sense in business and regulatory terms, especially for multi-jurisdictional processing.

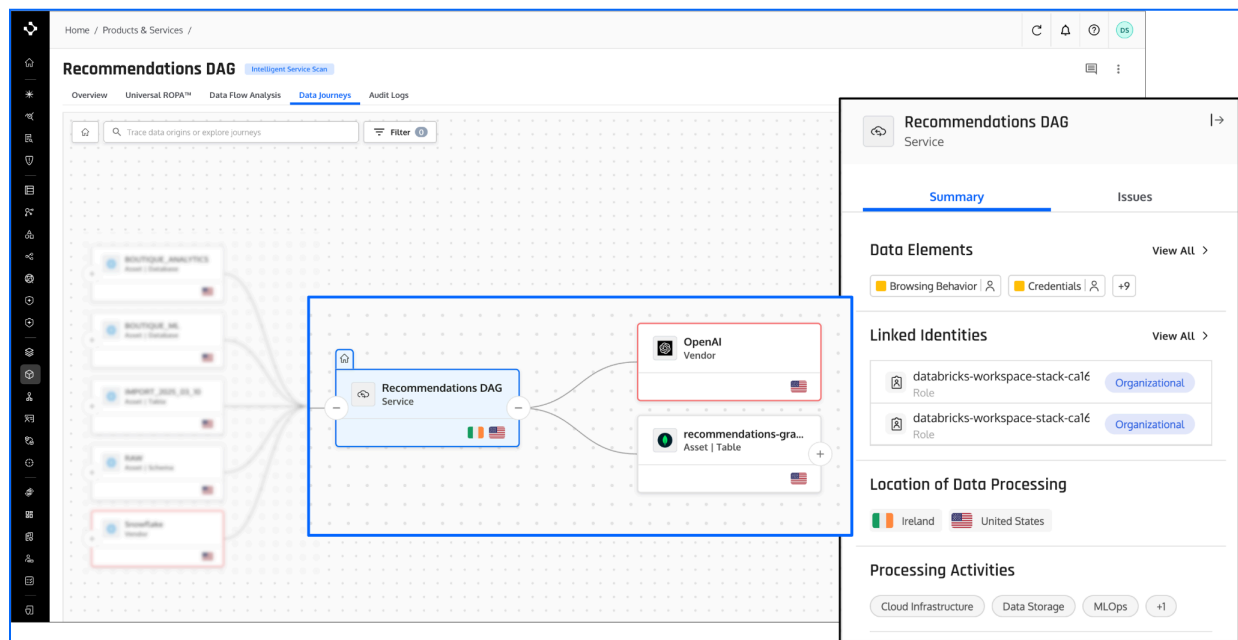


Fig 2. Data Journeys™ with Privacy-Specific Details for Each Data Hop, Highlighting Transfer Compliance

In short, Reliance AI turns what was once a murky “black box” of personal data activity into an open book of explainable, auditable data usage, with a particular emphasis on the intricacies of data transfers. By providing live, continuous personal data flow lineage instead of after-the-fact reports, Data Journeys™ empower organizations to identify risky, non-compliant, or unauthorized personal data use – including problematic international transfers – *before* it causes an incident, regulatory violation, or erosion of trust. This proactive, intelligent, and integrated approach is the foundation for truly effective data privacy management.



Achieving Continuous Privacy Assurance: AI-Powered Privacy Operations

The Relyance AI Data Privacy Suite provides an unparalleled level of control and insight by integrating advanced capabilities that span the entire data lifecycle. It's designed to ensure that privacy is embedded by design and by default, rather than being an afterthought or a compliance burden. Key components of this unified suite include:

- **Real-time Data Discovery and Classification (TrustIQ™):** Go beyond stale data inventories. Our AI-powered discovery engine, TrustIQ™, continuously scans and classifies personal and sensitive data across your entire digital estate – from code repositories and cloud environments to SaaS applications and AI models. This provides a live, accurate understanding of where personal data resides, its context, and its attributes, forming the essential foundation for all privacy operations.
- **Automated Records of Processing Activities (RoPA) Generation:** Eliminate the tedious, error-prone manual process of maintaining RoPA. The Data Privacy Suite automatically generates and continuously updates your Records of Processing Activities by ingesting real-time data flows and linking them to identified purposes, legal bases, and data processing activities, ensuring your RoPA is always accurate and audit-ready.
- **Dynamic Data Subject Request (DSR) Orchestration:** Transform DSRs from a disruptive, time-consuming challenge into an efficient, auditable process. Leveraging the comprehensive data map generated by TrustIQ™ and Data Journeys, the platform automates the identification, retrieval, redaction, and fulfillment of DSRs, empowering workflows that provide unprecedented visibility and control where previously there was none.
- **Intelligent Consent and Preference Management:** Take control of user consent across your digital touchpoints. The Suite provides robust tools to manage consent lifecycles, preferences, and granular permissions, ensuring that consent is collected, recorded, and honored in real-time across all data uses. This seamless connection to data journeys ensures that data is only processed for the purposes for which consent was explicitly given.
- **Proactive Privacy Assessments (PIAs/DPIAs):** Accelerate and streamline your privacy assessment processes. By drawing directly from the live data map and existing knowledge within the platform, the Suite simplifies the completion of Privacy Impact



Assessments (PIAs) and Data Protection Impact Assessments (DPIAs), making them easier, faster, and more accurate, particularly for new projects or AI initiatives.

- **Data Journeys – A New Class of Privacy Artifact:** This is the bedrock of our proactive approach. Moving beyond static inventory spreadsheets, Data Journeys provide a dynamic, end-to-end visualization of how every piece of personal data is collected, transformed, used, shared (including international transfers), and deleted across your entire technology supply chain. This rich, context-aware lineage reveals the 'who, what, when, where, and why' of data processing, enabling businesses to proactively identify and mitigate privacy risks, ensure compliance with purpose limitation, and confidently demonstrate accountability at any moment.

Agentless, AI-Native Architecture & Deployment Flexibility

A key operational advantage of the Relyance AI platform lies in its architecture: it is both *agentless* and *AI-native*. “Agentless” means that unlike traditional security tools, Relyance AI does not require installing any heavy sensors or software agents on your servers to monitor data flows. Instead, it integrates via APIs, reads from logs, source code repositories, cloud configuration, and other existing data sources to gather its intelligence. This approach dramatically reduces deployment friction and time-to-value – most organizations can connect Relyance AI to their environment and start seeing insights within minutes, not weeks. The platform was designed to work *with* modern development workflows (cloud-native and DevOps practices) rather than slow them down. Because there are no agents consuming resources or needing constant updates, the solution scales easily across cloud and hybrid environments. Security teams appreciate that an agentless design means one less potential point of failure or vulnerability on their systems, and business stakeholders appreciate the rapid, hassle-free rollout.

Being AI-native means that Relyance AI's core is built on advanced machine learning and natural language processing techniques that continuously learn from your data landscape. The platform's intelligence engine (TrustIQ™) uses AI to automatically classify data (including unstructured data and code) and to infer the context of data processing activities. For example, it can distinguish personal health information from log data, or recognize that a piece of data is an email address being used for marketing vs. for authentication, based on how it flows through the code. This intelligent classification and context enrichment is far beyond what any manual



rule-based system could achieve at scale. It enables more accurate policy enforcement and fewer false positives – the system “understands” your data environment in a holistic way and adapts as it changes. Moreover, as new patterns (like a new type of cloud service or an emerging AI library) appear, the AI models help Relyance quickly accommodate them, making the platform future-proof by design.

In terms of deployment model, Relyance AI offers flexibility to meet enterprise needs.

1. **Relyance Full SaaS:** Cloud-hosted SaaS deployment
2. **Relyance AI InHost™:** a self-hosted option within your VPC.
3. **Relyance DirectConnect:** private link between your internal network and Relyance platform

Relyance Full SaaS Deployment

Relyance AI's Full SaaS deployment mode is designed to deliver an enterprise-grade solution. In this mode, all data processing occurs within a multi-tenant SaaS environment hosted in Google Cloud Platform (GCP), where each customer is logically isolated through dedicated IAM roles and resource boundaries.

Data from the customer's environment—such as metadata, asset schemas, policies & contracts, logs, and, if configured, sampled data—is securely transmitted to the Relyance environment via encrypted channels (TLS 1.3). Optional structured and unstructured samples, when enabled, are retained only for the duration of the scan and are never persisted. These inputs are processed by ephemeral, autoscaling AI services that extract findings and insights and display them in the Relyance SaaS UI. This architecture enables a secure, low-maintenance deployment model aligned with Zero Trust principles, ensuring data remains protected in transit and at rest, with customer configurations over what is shared. It offers a balance of scalability, automation, and enterprise security readiness—ideal for CISOs seeking a compliant SaaS solution without operational overhead.



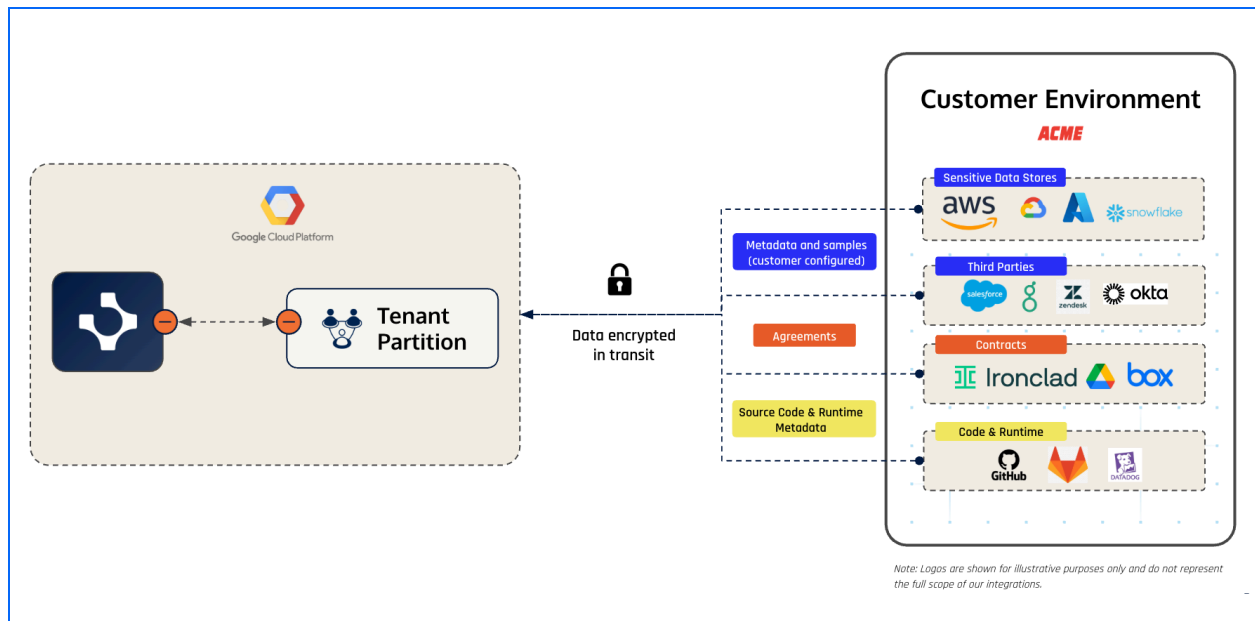


Fig 3. Full SaaS Architecture Diagram

Relyance InHost™ Deployment

With InHost, the entire platform runs within your own private cloud (VPC), ensuring that sensitive telemetry never leaves your environment. This is especially important for industries with strict data sovereignty and security requirements – you get all the benefits of Relyance AI's intelligence while keeping data under your own roof. Whether SaaS or self-managed, the platform is built with enterprise-grade security and privacy in mind (e.g. strong encryption, role-based access controls, audit logs), as evidenced by Relyance AI's transparent Trust Center and compliance with standards like SOC 2. In all cases, deployment does not require ripping and replacing any existing tools – Relyance AI augments your stack by integrating with developer tools, CI/CD pipelines, cloud accounts, and ticketing systems. This **architectural agility** means faster ROI and the ability to continuously adapt as your data ecosystem and regulatory landscape evolve.



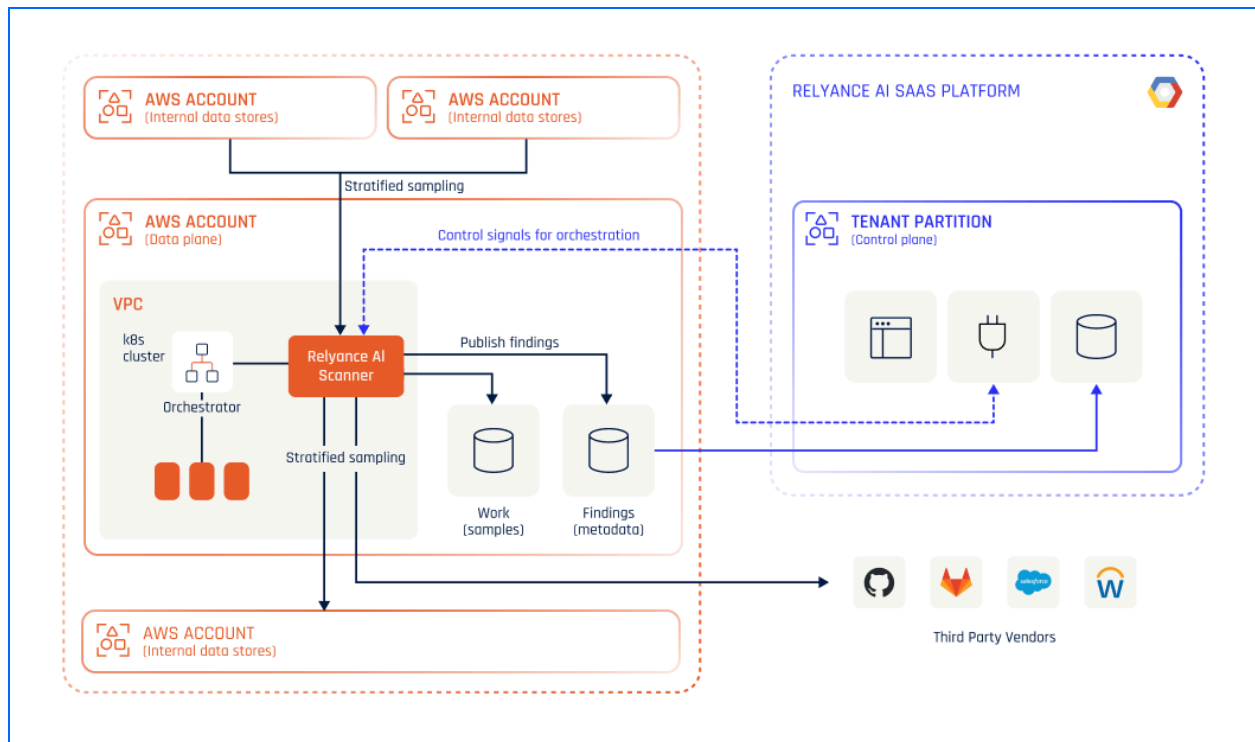


Fig 4. InHost™ Architecture Diagram

Relyance DirectConnect Deployment

DirectConnect is a private, fully managed deployment model that enables secure connectivity between your internal network and Relyance platform - without requiring you to install or manage any infrastructure. By establishing a dedicated Google Cloud project for each customer, DirectConnect ensures strict tenant isolation and complete control over network access. All communication occurs via a secure private link, such as VPN or VPC peering, allowing you to expose only selected internal IPs and services. No public internet exposure or endpoint configuration is necessary, and you maintain full data privacy while we handle the underlying processing infrastructure.

This architecture enables all scans, analytics, and data queries to run entirely within your dedicated cloud environment, offloading all compute and bandwidth costs to us. With no need for agents, VMs, or containers on your end, setup is fast—typically completed within hours. DirectConnect is ideal for enterprises needing to securely scan internal databases or integrate with private cloud data warehouses like Snowflake or Redshift. It's a frictionless, compliant option that offers high security, rapid onboarding, and zero operational burden for your teams.



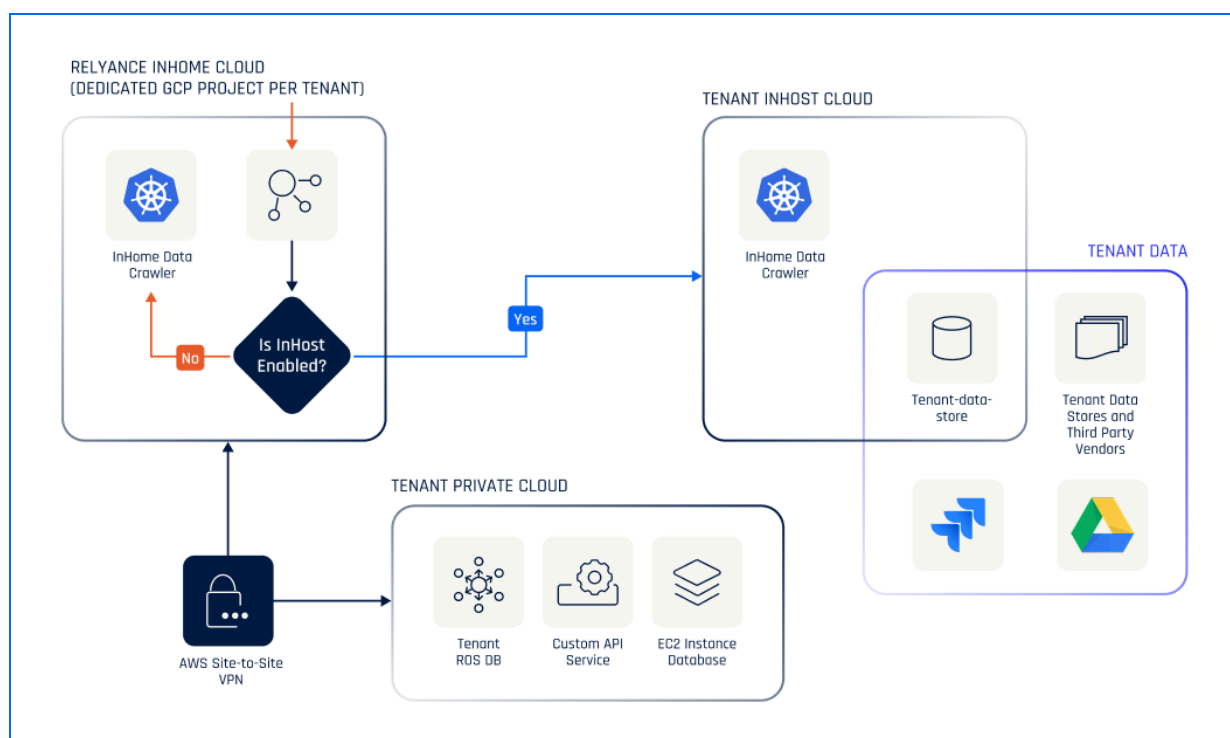


Fig 5. DirectConnect Architecture Diagram

Transforming Privacy into a Strategic Brand Advantage

The Relyance AI Data Privacy Suite delivers a profound range of strategic and operational benefits that align directly with modern corporate data privacy priorities, transforming a perceived cost center into a core pillar of business strength and innovation.

Firstly, the platform establishes a single, unified source of truth for all personal data usage across the organization. Instead of various teams maintaining separate, often conflicting spreadsheets, dashboards, or assumptions about how personal data flows, everyone – from Privacy and Legal teams to Security, Engineering, Data Science, and DevOps – can rely on one comprehensive, unified data graph. This dramatically improves cross-functional collaboration, effectively breaking down silos between privacy, legal, security and technical departments. When a Data Subject Request (DSR) arises, an audit inquiry is launched, or a new AI model needs assessment, all stakeholders are working from the same real-time, factual information.



Such alignment is absolutely crucial for responding to privacy incidents or regulatory inquiries under stringent deadlines, ensuring accuracy and reducing friction.

Secondly, the Suite enables evidence-based privacy assurance and demonstrable accountability. In critical board meetings or during rigorous regulatory audits, Chief Privacy Officers (CPOs) and Data Protection Officers (DPOs) can move beyond high-level assurances. They can confidently demonstrate precisely how the organization's personal and sensitive data is controlled, processed, and protected. Need to prove compliance with GDPR's Article 30 (RoPA) requirements, or demonstrate adherence to emerging AI ethics guidelines? With a few clicks, Relyance AI can produce audit-ready documentation showing complete data journeys, applied privacy controls, and real-time policy compliance status. This capability transforms compliance from a costly, anxiety-ridden, and manual effort into a more automated, continuous reporting and assurance function. It provides peace of mind to executive leadership that the company can withstand intense scrutiny from regulators, partners, or customers on questions of data use, consent, and AI ethics. In essence, Relyance AI operationalizes the principle of "Privacy by Design" and "Trust by Design," giving companies a robust way to build and verify trust at every step of their data lifecycle.

Operationally, one of the most significant benefits is unprecedented efficiency and time savings. By automating continuous data discovery, real-time data mapping, the platform liberates privacy managers, legal teams, and DPOs from tedious, manual, and reactive work. Tasks that traditionally consume hundreds of hours – like:

- Chasing down the owner of a dataset required for a DSR.
- Manually compiling and updating Records of Processing Activities (RoPA) across a dynamic data landscape.
- Figuring out which APIs touch a certain type of Personal Identifiable Information (PII) or sensitive data.
- Coordinating multi-stakeholder interviews for complex Privacy Impact Assessments (PIAs) or Data Protection Impact Assessments (DPIAs) for new AI initiatives.
- Manually managing granular consent preferences and ensuring their enforcement across diverse systems.

These are now handled by the platform's continuous intelligence. This shift allows highly skilled privacy and legal staff to focus on higher-value activities, such as analyzing strategic privacy risks, developing ethical AI policies, and improving overall privacy posture, rather than playing data detective. The substantial reduction in manual effort directly translates to significant cost savings – enabling organizations to achieve more with existing headcount and crucially, avoid



the multi-million dollar fines and legal costs that often stem from undetected compliance gaps or privacy incidents. Moreover, faster risk mitigation and proactive identification of issues (thanks to real-time alerts and privacy guardrails) dramatically lower the likelihood of costly data breaches and privacy violations, averting the substantial costs associated with incident response, reputational damage, and lost customer trust.

Strategically, Relyance AI positions privacy teams as enablers of responsible innovation. With this platform, CPOs and DPOs can confidently support digital transformation initiatives, from adopting new AI tools and migrating sensitive data to the cloud to expanding globally or partnering with data-intensive third parties. Privacy leaders gain the foresight to manage risks proactively, turning privacy from a roadblock into a competitive advantage. Companies that embed privacy and compliance from the start will outpace those slowed by caution. Relyance AI helps enterprises move fast, build responsibly, and secure customer trust while delivering the unified oversight across privacy, AI, and security that today's organizations demand.

About Relyance.AI

Relyance.AI is the leading Dynamic DSPM platform built for the AI era. It was founded by security and privacy experts to meet the demands of modern enterprises facing explosive data growth, AI adoption, and regulatory scrutiny.

With customers across financial services, retail, SaaS, and healthcare, Relyance.AI is redefining how organizations discover, secure, and govern data at the speed of innovation.

Trusted by:

logitech

Bolt

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PLAID

coinbase

Notion

samsara

ClickUp

Grafana

Canva

dayforce

dialpad

NAVAN

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