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Master DPDPA compliance—consent, data discovery, vendor risk, and ROPA in one AI-powered platform

₹250 Crore penalties under India's DPDP Act, 2023 don't discriminate by industry. Every organisation processing personal data of Indian residents must comply by **May 13, 2027**. Most organisations today have no automated system for consent management, personal data mapping, or vendor risk assessment — making them invisible to regulators until it is already too late.

What is DataDefend?

DataDefend is India's #1 AI-Powered DPDPA Compliance Platform, built by CYBERSEC Enterprises and recognised by MeitY (Ministry of Electronics & Information Technology) as a Top 6 DPDPA Compliance Solution. The platform automates consent management, personal data discovery, privacy impact assessments, DSAR workflows, vendor risk management, and compliance reporting — consolidating the full DPDPA compliance lifecycle into a single AI-driven control plane. It integrates with your existing infrastructure via 7,000+ pre-built connectors without modifying a single target system. Deployable as SaaS, Private Cloud, or fully On-Premises to fit any data-residency and regulatory requirement.

Compliance challenges DataDefend solves

No visibility into personal data
Organisations don't know what personal data they hold, where it lives, or who processes it. Without automated data mapping, compliance is impossible to prove and breach response is delayed.

Manual consent & DSAR processes
Spreadsheet-driven consent tracking and manual DSAR responses don't scale to thousands of data principals. One missed deadline means regulatory exposure, potential fines, and reputational damage.

Unmanaged third-party vendor risk
Third-party processors handle personal data with no oversight. Without continuous vendor assessments and Data Processing Agreements, a vendor breach becomes your compliance failure under DPDPA.

Why compliance leaders choose DataDefend

One AI-powered platform for the full DPDPA compliance lifecycle — consent management, personal data discovery, privacy impact assessments, DSAR automation, vendor risk, and real-time reporting — with MeitY recognition (Top 6), 99.9% AI accuracy on PIAs, 7,000+ integrations, and a go-live commitment of under 2 weeks. Trusted by 500+ enterprises across BFSI, Healthcare, Manufacturing, E-commerce, and Power sectors.

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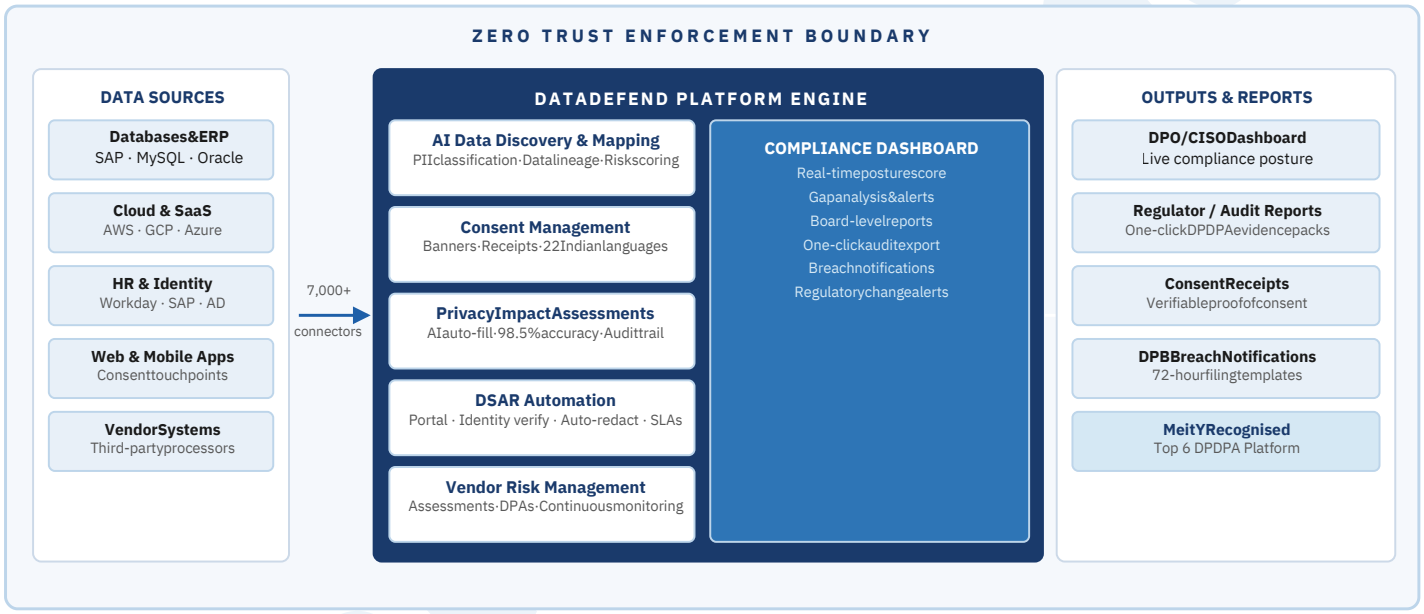
HOW DATADEFEND WORKS

AI-powered, non-invasive, integration-first

DataDefend connects to yourexisting infrastructure via 7,000+ pre-built connectors without modifying a single target system. The AI engine scans, classifies, and maps personal data in real time — building a living data inventory from Day 1. Consent workflows, PIAs, vendor questionnaires, and DSAR fulfilment are all automated. The compliance dashboard gives your DPO, CISO, and board real-time visibility at all times.

Platform architecture



Platform Performance

BuiltforEnterpriseScale andSpeed

99.9%	7,000+	<8 Wks	500+
AI Accuracy on Privacy Impact Assessments	Pre-Built Integrations Available on Day 1	Guaranteed	Across All Sectors

DataDefend is designed for enterprise data volumes. The AI engine classifies millions of PII records across databases, cloud, HR systems, and web applications — with no performance impact on production systems. Each deployment supports private cloud isolation and on-premises hosting for regulated industries.

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KEY CAPABILITIES

Capability	Description
DATA GOVERNANCE & CONSENT MANAGEMENT	
Consent banner & preference centre	Deploy DPDPA-compliant consent banners on websites, mobile apps, and digital portals in minutes using pre-built templates. Provide granular preference centres so data principals can manage their consent per purpose. Every consent interaction is timestamped and stored as a verifiable receipt with full audit trail.
Multi-language consent notices	Deliver privacy notices and consent flows in all 22 scheduled Indian languages — critical for organisations with consumers across multiple states. Language selection is automatic based on browser and device locale. Vernacular notices are pre-translated and legally reviewed for DPDPA compliance.
Consent receipts & proof of consent	Every consent event generates a cryptographically signed, timestamped receipt stored in a tamper-proof ledger. Receipts are searchable by data principal, purpose, and date — providing instant, irrefutable proof of consent for any regulator query or audit.
Cookie consent management	Auto-scan and categorise all cookies and tracking technologies on your web properties. Deploy a compliant cookie banner with granular category controls (necessary, analytics, marketing). Cookie consent records are synced to the central consent ledger. Integrates with all major tag managers (GTM, Adobe, Tealium).
AI personal data discovery & mapping	Connect DataDefend to your databases, cloud storage, SaaS applications, HR systems, and file shares via 7,000+ pre-built connectors. The AI engine automatically scans, classifies, and tags every PII record — names, Aadhaar, PAN, health data, financial data, location data — and builds a living, real-time data map with risk scoring and data lineage.
Data flow mapping & ROPA	Automatically generate your Record of Processing Activities (ROPA) from the AI-discovered data map. Every data flow — from collection to processing to transfer — is mapped, documented, and kept current as your infrastructure changes. ROPA is always audit-ready and exportable in regulator-required formats.
Data lifecycle & retention management	Define retention policies per data category, processing purpose, and regulatory requirement. DataDefend monitors retention timelines, triggers alerts when data exceeds defined windows, and automates deletion workflows. Minimum 1-year retention of processing logs and traffic logs as mandated by DPDP Rules, 2025 is enforced automatically.
Purpose limitation enforcement	Tag every personal data record against its consented processing purpose. DataDefend detects and flags any access or processing attempt that goes beyond the consented purpose — generating real-time alerts to the DPO and automatically blocking downstream data flows that violate purpose limitation.

Capability	Description
PRIVACY IMPACT ASSESSMENTS & DSAR AUTOMATION	
AI-powered PIA / DPIA auto-fill	Privacy Impact Assessments and Data Protection Impact Assessments are auto-populated by the AI engine with 98.5% accuracy, using data extracted from the live data map. Assessment templates are pre-built for DPDPA obligations and cover all mandatory sections. Assessors review and approve — not build from scratch — cutting PIA time from weeks to hours.
Risk scoring & recommendations	Every PIA produces an automated risk score with prioritised recommendations. High-risk findings generate tasks assigned to the relevant business unit owner, with SLA timers and escalation paths. Risk trends are tracked over time on the compliance dashboard, providing a continuous view of your organisation's privacy risk posture.
DSAR request portal	A branded, publicly accessible portal where data principals can submit access, correction, erasure, nomination, and grievance requests in their preferred language. Identity verification is automated. Every request is timestamped and tracked against the mandatory 30-day (extendable to 45-day) response SLA — with automatic escalation alerts if deadlines approach.
Automated DSAR fulfilment	DataDefend locates all personal data belonging to the requesting data principal across every connected system, applies automatic PII redaction to protect third-party data, and packages the response. For erasure requests, deletion workflows are dispatched to all relevant systems automatically. Full audit trail of every step is maintained for regulatory evidence.
Parental consent for minors	Built-in workflows for verifying parental consent for users under 18 years of age, as mandated by DPDP Rules 2025. Supports self-declaration by the child with subsequent parent verification via DigiLocker authentication, existing records, or government-authorised sources. All verifications are logged with timestamps.
VENDOR RISK MANAGEMENT & COMPLIANCE REPORTING	
Vendor risk assessment & scoring	Dispatch automated security and privacy questionnaires to third-party vendors, sub-processors, and data processors. DataDefend scores each vendor on a risk scale, flags high-risk processors, and generates recommended mitigations. Assessment cycles are scheduled automatically — ensuring continuous, not point-in-time, vendor oversight across your entire supply chain.
Data Processing Agreement library	Pre-built DPA templates compliant with DPDP Rules 2025 requirements for data processor contracts. Customise, version, and track DPA status for every vendor. DataDefend alerts when DPAs are missing, expired, or non-compliant — providing a complete contractual coverage map of your data processing ecosystem.
Compliance dashboard & gap analysis	Real-time compliance posture score across all six DPDPA obligation pillars. Gap analysis identifies exactly which controls are missing, which are in progress, and which are complete. Prioritised action plans with owner assignments and deadlines are generated automatically. Board-level summary and detailed DPO views are available as separate report templates.
Breach notification workflow	Structured incident response workflow triggers automatically on detection of a potential personal data breach. DataDefend guides the DPO through the mandatory

INTEGRATIONS & TECHNOLOGY FIT

DataDefend is designed to drop into the infrastructure you already run. Pre-built connectors cover every data source, and the platform exposes a full REST API and webhooks so your IT, DevOps, and compliance teams can automate everything they need — with zero modification to target systems.

Category	Supported Technologies
ERP & CRM systems	SAP S/4HANA, SAP ECC, Oracle ERP, Microsoft Dynamics 365, Salesforce, HubSpot, Zoho CRM — direct connector with schema-aware PII scanning and real-time data lineage mapping.
Databases	MySQL, PostgreSQL, Oracle DB, Microsoft SQL Server, MariaDB, Redis, MongoDB, ClickHouse, Cassandra, Snowflake, BigQuery, Amazon Redshift — connected with full schema discovery and automatic PII classification.
Cloud & infrastructure	AWS (S3, RDS, DynamoDB, Redshift, Lambda), Google Cloud (GCS, BigQuery, Cloud SQL), Microsoft Azure (Blob Storage, Azure SQL, Cosmos DB), Alibaba Cloud, Oracle Cloud — with cross-region data residency mapping.
HR & workforce systems	SAP SuccessFactors, Workday, Oracle HCM, BambooHR, ADP, Darwinbox, greytHR — employee and contractor personal data mapped and governed with automated Joiner-Mover-Leaver lifecycle triggers for access and retention.
Identity & directory	Microsoft Active Directory, Azure AD (Entra ID), Okta, Google Workspace, Ping Identity, OneLogin — SAML 2.0 / OAuth 2.0 / OIDC for SSO; RBAC for DPO, CISO, and business unit role separation within DataDefend.
Web & tag management	Google Tag Manager, Adobe Experience Platform, Tealium, Segment — automatic cookie and tracker scanning with consent signal propagation across all marketing and analytics stacks.
ITSM & ticketing	ServiceNow, Jira Service Management, BMC Remedy, Freshservice, Zendesk — DSAR requests, PIA tasks, vendor assessment follow-ups, and breach notification workflows integrated with your existing ticketing SLAs and change management processes.
Communication & collaboration	Microsoft Teams, Slack, Google Chat, PagerDuty, Opsgenie — real-time alerts on consent violations, DSAR deadline warnings, breach detections, and compliance score changes. Full REST API + webhooks for custom automation.
SIEM & security operations	Splunk, IBM QRadar, Microsoft Sentinel, Elastic SIEM, Datadog, Sumo Logic — syslog/CEF/JSON streaming of all DataDefend compliance events, consent records, and breach incidents for unified SOC visibility.
AMI & IoT platforms	Advanced Metering Infrastructure (AMI) platforms, smart meter data management systems, IoT device management platforms — real-time consumer energy data classified as personal data, with consent flows and retention controls enforced at the edge.
File storage & document management	Microsoft SharePoint, OneDrive, Google Drive, Box, Dropbox, Confluence, network file shares — unstructured PII discovery across documents, spreadsheets, and presentations with risk-based classification and access control recommendations.

DEPLOYMENT, ONBOARDING & COMPLIANCE COVERAGE

Deployment models

DataDefendis platform-agnostic. Pick the deployment topology that matches your data-residency requirements and risk posture — the AI engine, policy model, and full feature set are identical across all three options. Every enterprise deployment includes a dedicated Project Manager and an On-Premises Implementation Resource.

Model	Description	Best For
SaaS	Fully managed multi-tenant deployment on the DataDefend cloud. Zero infrastructure to operate. Automatic upgrades, patching, and 99.9% SLA included. Go live in under 2 weeks.	Fastest time-to-value; SaaS-first compliance teams; mid-market enterprises seeking rapid DPDPA certification.
Private Cloud	DataDefend deployed in your own AWS, GCP, or Azure VPC — isolated single-tenant environment. All personal data and compliance records stay within your cloud boundary. Managed by DataDefend engineering team.	Regulated workloads requiring data residency within India; enterprises with cloud-first policies but strict data isolation requirements.
On-Premises	Full control-plane and data-plane deployed within your own data centre or private network. No data leaves your perimeter. DataDefend's on-prem resource handles installation, configuration, and go-live alongside your IT team.	BFSI, defence, government, healthcare, and critical infrastructure organisations with sovereign data requirements and air-gapped environments.

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Compliance coverage

Framework / Regulation	DataDefend Coverage
DPDP Act, 2023 & Rules 2025	Full coverage of all 10 mandatory obligations: consent, data principal rights, security safeguards, vendor management, breach notification, retention, grievance redressal, parental consent, SDF requirements, and ROPA. Compliance deadline tracking to May 13, 2027.
RBI Guidelines (data localisation)	Payment data localisation compliance controls, data residency mapping, and cross-border transfer consent management aligned with RBI Payment System Data Storage guidelines.
SEBI Cybersecurity & Data Framework	Investor and client data classification, third-party vendor risk assessments, and breach notification workflows aligned with SEBI's cybersecurity and data privacy circular requirements.
IRDAI Data Privacy Guidelines	Policyholder and beneficiary data governance, health data classification, consent management for sensitive personal data categories, and vendor risk for insurance intermediaries.
ISO 27001 / ISO 27701	Privacy Information Management System (PIMS) control mapping with automated evidence collection. ISO 27701 annex controls are directly mapped to DataDefend modules for streamlined certification audits.
GDPR (cross-border transfers)	Standard Contractual Clauses (SCC) template library, cross-border transfer impact assessments, and adequacy decision monitoring — for organisations transferring personal data between India and the EU.

BUSINESS IMPACT & NEXT STEPS

Product benefits

Achievefull DPDPA compliance before the May 2027 deadline

DataDefend takesyou fromzeroto audit-ready inunder 12 weeks— well ahead of the regulatory deadline. Pre-built DPDPA templates, AI-automated assessments, and a dedicated on-premises implementation resource ensure nothing is missed. On Day 1, your compliance clock starts running in your favour, not against you.

Reduce compliance overhead by 90% with AI automation

DataDefend automates 90%ofthe manual effort in DPDPAcompliance — PIA filling, DSAR fulfilment, vendor questionnaire dispatch, consent banner management, and audit report generation. Compliance and legal teams shift from reactive firefighting to proactive governance, without growing headcount.

Eliminate vendor and third-party data risk at scale

Continuous, automated vendorrisk assessments replace point-in-time spreadsheet reviews. Every data processor in your supply chain is scored, monitored, and governed with DPA contracts — ensuring a vendor breach does not become your compliance failure under DPDPA. High-risk vendors are flagged proactively before incidents occur.

Replace a fragmented toolset with one MeitY-recognised platform

Asingle DataDefend deploymentreplaces standalone consent tools,manualDSAR trackers, spreadsheet-based data inventories, ad-hoc vendor assessment processes, and separate cookie management tools — cutting vendor complexity and total cost of ownership while delivering an always-audit-ready compliance posture that regulators and boards can see in real time.

To know more

Discover how CYBERSEC can secure your DPDP Complaince and advance your security posture.
Visit us at **https://datadefend.in** | Email **support@datadefend.in** | Call **+91 0124 3534997**