

Data Governance & Security

Lenses® provides a Data Operation layer that accelerates time to value and opens up data streams to a wider audience. Lenses enables rapid construction and deployment of data pipelines at scale, for enterprises, with governance and security.

Lenses tackles out of the box, the following main challenges when considering data governance and data-in-motion systems:

1. **Auditing:** Knowing **Who** did **What** and **When** and audit data access
2. **Access Control:** Who can access the data
3. **PII Management:** Effectively manage personal identifiable data: Track & retrieve PII data, know how PII data are processed and be GDPR compliant.
4. **Data Protection:** For particular sensitive data and for a Data Officer enablement

Lenses is following the secure-by-design principles and offers a fine topic-centric and field-centric security model. PII, Data Protection and GDPR coverage are parts of the building blocks of Lenses.

Data Ops is offering a transformative new view in data layers. Having a data first culture means that all data person should be enabled to participate from the entire business. A data platform team can now bring data in the hands of its users, as simple as their email, to enable innovation and minimise time to value. Lenses empowers this.

BENEFITS

- ✓ Data Compliance
- ✓ Data and Access Auditing
- ✓ Data Governance
- ✓ Data Policies for PII data
- ✓ Data Classification
- ✓ Support a large set of Data techs
- ✓ Empower the Data Officer
- ✓ Reduce engineering effort
- ✓ Focus on data and business requirements

Protection & Security for business integration

In the modern hyper-connected and digitally transformed business, enterprise risk continues to increase. From fraud, to ever-changing compliance regulations, you need to increase visibility and unlock the power of real-time data streaming and advanced analytics to lower enterprise risk.

With the new regulations around data privacy such as GDPR, HIPAA, AML, companies handling private data put a lot of effort to minimise their risks. We make sure we keep Data Governance at high standards for your data in motion.

- ✓ Right to request a copy of personal data
- ✓ Keep detailed records of data activities
- ✓ Protect Sensitive Data
- ✓ Role-based Data Access
- ✓ Access Control Lists
- ✓ SSL Encryption and Kerberos
- ✓ LDAP and Active Directory

Auditing

All system and data actions are fully audited by default

Auditing	
Audit Logs	Immutable audit logs to track all CRUD actions in a who did what and when fashion. Lenses also audits actions happen outside Lenses, by periodically monitoring your infrastructure.
Audit Data access	Lenses automatically logs all queries and data access for its users to ensure compliance and reporting.

Access Control

360 degree access control and administration for fine level security access control

Access Control	
Role Based Access	Lenses supports role-based authorisation to protect your cluster and your data, especially in a multi-tenant environment.
Basic Authentication	Token-based authentication scenarios
LDAP	Integrate via memberOf or pluggable LDAP, or AD (Active Directory) and provide the people in your organization role-based access to Kafka streaming data
Kerberos	JaaS, Utilise Kerberos Authentication, Authorization, Single sign-on
TLS Certificates	Authenticate and Authorise Clients and Application via signed TLS certificates
ACLs	Manage Access Control Lists (Kafka ACLs) via Lenses interface / CLI
Quotas	Manage Kafka quotas for clients via Lenses Interface / CLI
Multi-tenancy	Blacklist and Whitelist capabilities for user groups. It applies topic-centric security which can restrict access to various topics and its involved pipelines

PII Management

Personal Identification Information management

Personal Identifiable Information management	
Track PII data	Automatically track PII data and application and consumers of such data
Classify & Protect PII data	Classify the severity and type of PII data and protect them
GDPR - Right to request a copy of personal data	Retrieve data about particular PII fields in order to extract a copy of all personal data using simple SQL queries or even automate a process via an API / CLI request.
GDPR - Keep detailed records on data activities	Lenses Topology provides visibility across data transformation and processing, across a large set of data technologies (Kafka Connect, KStream, Spark, Flink, Akka, Micro-Services. Kubernetes)
GDPR - The deletion of personal data	Lenses supports the deletion of personal data (on compacted topics) - and can also help in rewriting the data when an immutable system is in place

Data Protection

Protect and track data at a field-level.

Data Protection	
Data Schema Management	Manage the underlying schemas and meta-store. Lenses integrates with popular open source Schema Registries and provides an additional role-base access and governance layer
Impact Classification	Classify your data across different categories or impact levels
Data Reduction	Apply data reduction at the presentation layer - so that your Data Engineers for example can inspect production systems, while respecting data privacy.
Data Officer	The Data Officer can easily set up Data Policy rules - and track the usage of Protected Data

Reach out for more

We are happy to discuss with you additional requirements such as PCI compliance (tokenisation) or HIPAA, AML or any other data regulation that is relevant to you at info@landoop.com

Find out more

- ➔ [Read docs on Lenses Data Policies](#)
- ➔ [LDAP - AD - Kerberos](#)
- ➔ [Interesting Resources](#)

About Us

A team of passionate distributed system specialists based in the City of London with high-frequency trading, investment banking, betting, media and retail experience are the creator of **Lenses** ®

We aim to define Data Ops and assist companies open up their business data to all relevant users seamlessly by giving them the power of data operations. DataOps is currently transforming data management. Building a data-driven culture mandates that all data personas work with data, enabling participation from the entire business.

Modern organisations are trying hard to expose their data via platform teams. As a result, many end up with customised DIY solutions with in-house engineering teams spending most of their time building infrastructure and tooling.

We believe that data should be in the hands of its users, as simple as their email, to enable innovation and minimise time to value and used ethically.

Wanna give it a try ?

[Lenses.io](#)