intertrust®

Intertrust Platform

Intertrust Platform™ is a neutral, composable platform for governing access to multi-party data and facilitating secure collaboration between internal stakeholders as well as third-party service providers. The Platform enables organizations to manage distributed data and devices at scale, so they can make data-driven business decisions, confidently and securely.

Organizations frequently engage with third-party vendors or service partners who require access to data assets in order to perform their work. Typically these interactions are facilitated by granting access to a REST API or standard data interface. When data is delivered in this fashion, it exits the governance boundary and is no longer under the control of the organization, at which point a contractual agreement may be the only insurance against misuse of the data.

While it is possible to consume data in Intertrust Platform this way, the Platform provides an interface for direct integration with third-party applications and software.

Intertrust Platform is designed with features that enable organizations to securely share data with their partners in isolated environments. It is a composable architecture, and also includes a high performance time-series database that can be optionally used for time-stamped data, such as IoT data, in an agile way.

The Intertrust Platform achieves all this by integrating the following functions:

Identity and Access Management

Intertrust Platform supports user authentication via an open standard for token-based authentication and authorization. Authorization tokens issued by the Platform are refreshed at a configurable interval, at which point users must reauthenticate with the system.

Data Virtualization

Data does not need to be migrated onto the Intertrust Platform for governed access. Fine-grained privileges may be applied to existing databases, creating a unified point of access control that governs all interactions via the Intertrust Platform data interfaces. Data access privileges include Read, Write, Select, Insert, Update, and Delete. Optional restrictions may be expressed with a privilege grant to limit the scope of data by column or row, and may include logical operators such as 'and' or 'or' to further refine access.

The Platform also enables users to create 'virtual datasets' by joining data from one or more physical data stores. These virtual datasets may include data from any number of tables in a single database, or multiple tables from multiple databases.

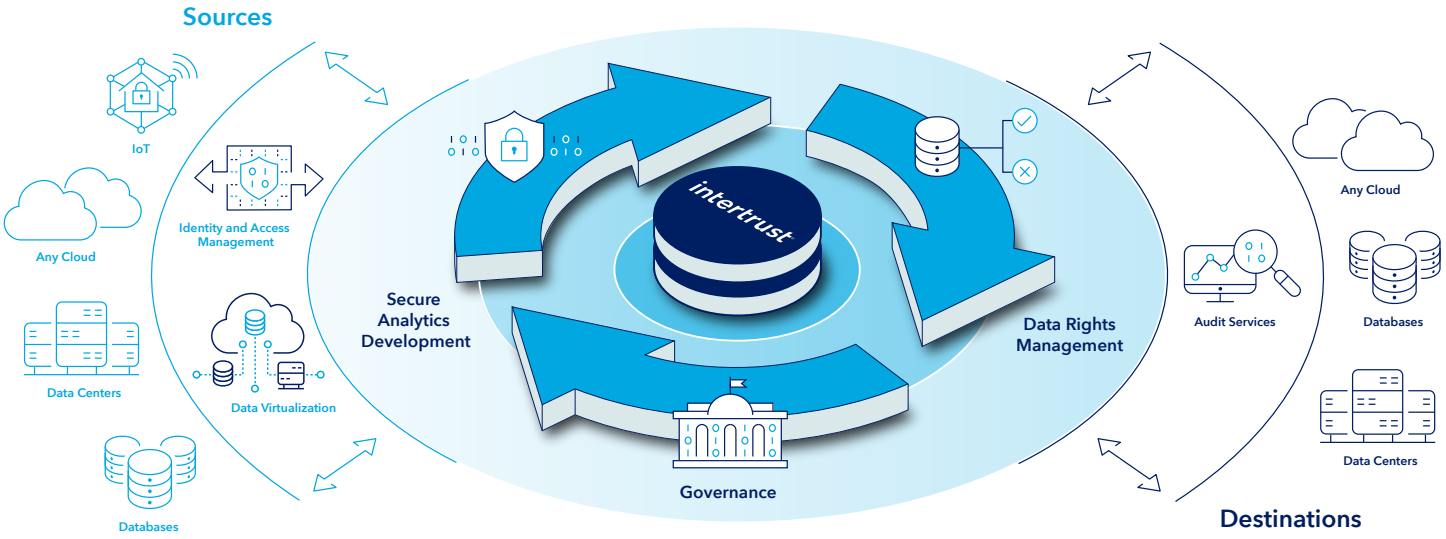
As with any dataset within Intertrust Platform, access to the virtual dataset is governed by the privileges and restrictions granted to a user. This enables organizations to easily create and govern new data products for consumption by downstream stakeholders.

Secure Workflow Environments

Intertrust Platform provides an environment where containerized workloads can be deployed and executed in a managed cluster across any cloud/on-premises setup wherein both ingress and egress are constrained by network policies. When coupled with the Platform's governance mechanisms, this ensures that workloads may only access data to which privileges have been granted and that data may not transit beyond the governance boundaries.

Furthermore, any data products produced by the workload may only be written to a dataset governed by Intertrust Platform. This enables seamless integration and access management of the container services with the organization's underlying data ecosystem in a secure way.

Intertrust Platform is an interoperability layer that provides secure links for diverse datasets and devices – from edge to cloud.



Intertrust Platform™

The Platform leverages container orchestration technologies such as Kubernetes and Docker to make deployments cloud-agnostic.

Identity and Access Management

Device and user identity, authentication, and authorization; maintains platform objects and their relationships.

Secure Execution Environments

Secure network-isolatable environments for workload execution and controlled, interactive data exploration.

Data Virtualization

Data object definitions, permissions, restrictions. Provides data interfaces, manages DBs and virtualized datasets.

Time Series Database

Scalable, efficient, high performance database designed for time-series data.

Deployment

Intertrust Platform is designed to run on commodity hardware and does not require any cloud-specific services to function. It may be deployed on the infrastructure of any major cloud-service provider as well as on-premises infrastructure setup

Auditing

Intertrust Platform provides a robust logging mechanism that meets stringent standards, generating a secure log that is controlled, immutable, and protected.

Conclusion

Businesses today depend on data to improve workflows, run more efficiently, and discover new opportunities. The Intertrust Platform enables the development of value-added services and applications by providing role-based or rule-based access to diverse data ecosystems. The Platform facilitates multi-organization collaboration, cross-cloud data sharing, and interoperability. With secure governance environments that enable analytics to go to the data, data never gets moved, is always protected, and always stays in your control.

intertrust®

Building trust for the connected world.

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