



DATA INTEGRATION PLATFORM

Connectors for Data Acquisition

Customers tell us that a single scientist spends 200-350+ hours per year manually collecting data for one type of experiment. Multiply that by the number of scientists in your organization. Then again by different types of experiments they do in the lab. That's a lot of time. Not to mention the risk of error, loss of metadata, and host of other potential big lab data issues.

Automate experimental data acquisition

Flexible

on-premise or in the cloud,
via software, file, or IoT agent

Productized

continuous support of
connectors, including upgrades



Scalable

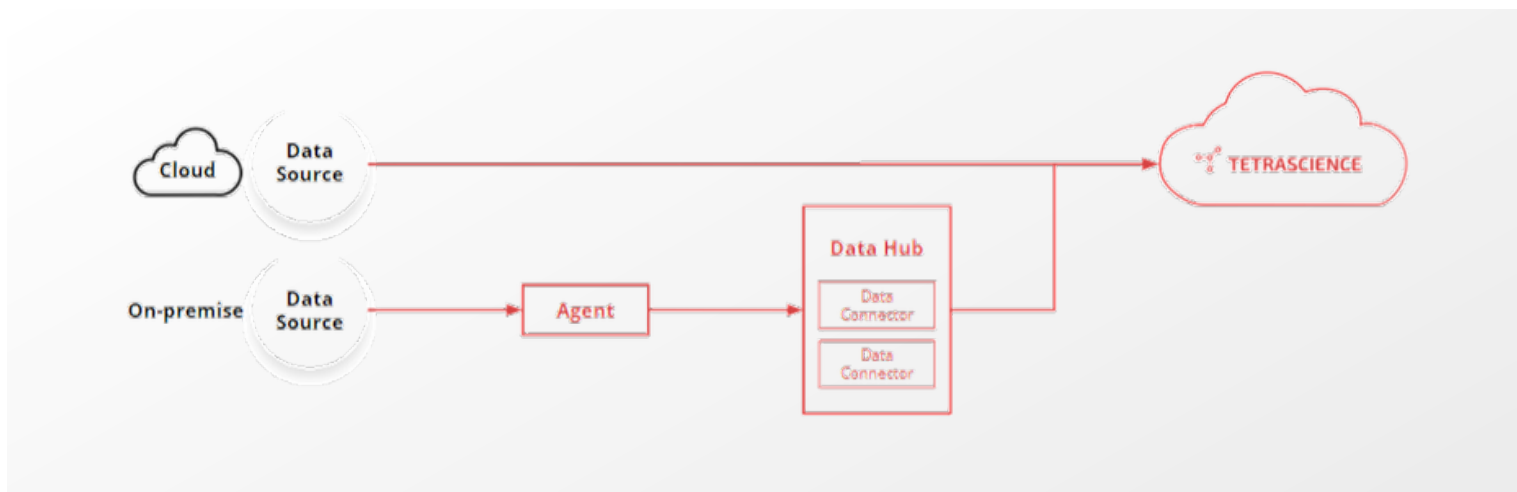
connect any number of
sources; easy to set up

Secure

uses industry
and AWS best practices

DATA CONNECTORS

Within the TetraScience Data Integration Platform, the connectors have one specific job - automatically acquire experimental data. With the sheer volume of data sources, types of outputs, and regular upgrades, this is no small task.



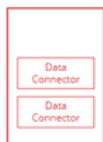
Data sources

Instruments, outsourced collaborators (like CROs/CDMOs), software systems (like ELNs, compound regs, historians, databases), or anything else that generates or contains experimental data



Data agents

Acquire data from the on-premise instrument Data Sources programmatically - transferring data through the Data Hub / Data Connector to the TetraScience Data Lake



Data connectors

Each Data Connector pulls or receives data from data sources in your environment. Programmatic integration captures comprehensive data sets and detects changes when data is updated



Data hub

The on-premise software component of the platform. It facilitates secure data transfer and applies metadata and tags. A single Data Hub supports multiple Data Connectors and Data Agents

METHODS OF ACQUISITION

Cloud

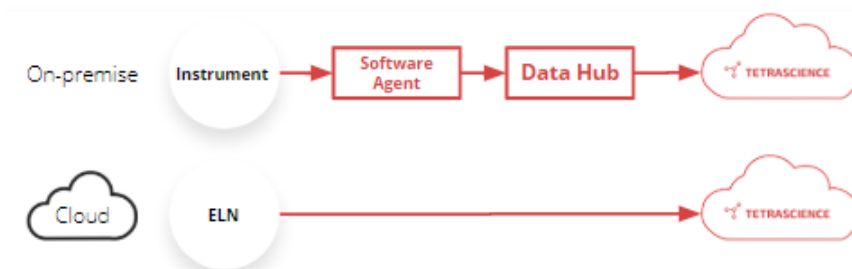
For cloud sources, such as Egnyte, Box, or ELNs, admins set up and configure the integrations directly through the TetraScience Web User Interface

On-premise

For on-premise sources, such as GE Unicorn, Waters Empower, historians, or a local file directory, we provide Data Connectors and Agents that run locally

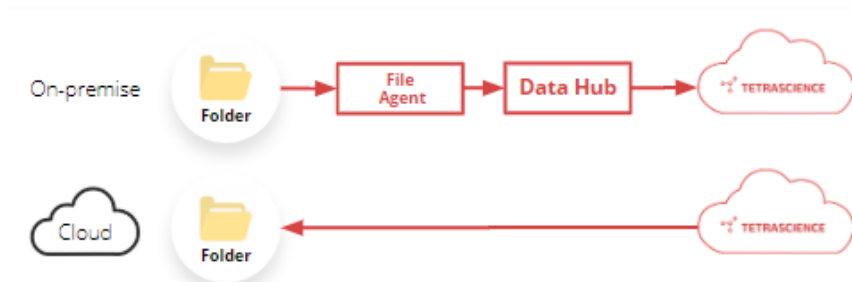
Software-based (programmatic)

Seamless data integration with popular instrumentation and software



File-based

Upload files and logs from a folder that you set via a file log agent. Enables data transfer with a CRO or instrument



IoT-based

Capture data from offline instruments using our IoT gateway. This agent already supports thousands of sensor streams for our [Lab Monitoring application](#)



FREQUENTLY ASKED QUESTIONS

How often do Data Agents check for new data?

Data Agents are integrated programmatically, meaning they check for new data or detect changes and updates automatically at the set time, frequency, trigger, etc., resulting in comprehensive, timely data capture.

Instruments and software are upgraded regularly - how do you handle this?

We continually upgrade and support our Data Connectors and Agents. We keep track of changes and build direct relationships behind the scenes so you don't have to worry about it. We treat data acquisition as a product, regularly releasing advanced features.

What are the deployment options?



We work inside biopharma environments of all sorts. The Data Hub is specific to your organization, but can be connected to a single-tenant or multi-tenant cloud platform. It only takes minutes to deploy.

Will the platform meet my enterprise IT and security requirements?

Yes. We work with many of the largest global biopharma companies. Our platform is built on AWS to leverage the best-in-class solution. [Contact us](#) for further details.



TetraScience is the leader in transforming the Digital Lab. We provide an advanced data engineering solution that makes life sciences R&D data truly accessible and actionable. More than 80 leading pharmaceutical and biotech companies rely on our cloud-native Data Integration Platform and applications to automatically centralize and harmonize their experimental data, preparing it so you can focus on value-add activities like data science and AI, trend identification, and anomaly detection and response. Activate the flow of your data.

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