Healthcare and life sciences organizations are struggling to deal with unprecedented levels of data both generated and required by patient care, research and clinical programs. Legacy systems are often built in a siloed architecture that makes it extremely difficult to share data from department to department and between organizations. The interdependent nature of healthcare and life sciences data means there needs to be more emphasis on integrating data beyond EHRs and other clinical systems. But even that isn’t enough; new approaches are required to assimilate and share data from different devices, as well as data generated by patients and from the business side of the organization.

One new approach that is emerging is Data Platform as a Service (dPaaS). dPaaS meets the demand for unified integration and management of data, while shifting all complexity from the organization to the cloud platform provider. dPaaS recognizes that data is currency and is anchored on the following fundamentals:

- Enabling healthcare organizations to focus on data assets and extract insights for business and clinical value
- Putting control of the data in the hands of the health data experts
- Providing full transparency into the data and data flow
- Giving the organization the flexibility to use analytics and business intelligence tools of their choice without restrictions
- Delivering integration as a fully managed service through professionally curated integration Center of Excellence.

dPaaS provides greater flexibility, better scalability, lower capital expenses and faster time to value compared with traditional on-premise data warehouses and Health Information Exchange platforms.

LIAISON ALLOY HEALTH™ PLATFORM

THE dPaaS SOLUTION, BUILT FOR TODAY’S COMPLEX WORLD

The Liaison ALLOY Health™ Platform is the dPaaS solution available and is able to address the needs of a growing enterprise through a data-centric approach. It offers both integration and data management in a unified, cloud-based platform. The ALLOY Health™ Platform provides for all of the basic needs such as infinite scale, resiliency, and robust security.

The Liaison ALLOY Health™ Platform supports diverse data requirements for hospitals, labs, practices and payers, from connecting to legacy systems, matching and harmonizing data from disparate sources and providing registries to more easily manage data around different healthcare populations. Providers, researchers and life sciences organizations can focus on their domain expertise and use the data in the way they want and in the context that is meaningful to them.

LIAISON ALLOY HEALTH™ PLATFORM

THE LIAISON ALLOY HEALTH™ PLATFORM

THE LIAISON ALLOY HEALTH™ PLATFORM
The Liaison ALLOY Health™ Platform consists of three building blocks:

- Data Orchestration
- Data Persistence
- Data Visualization

The Data Orchestration module is where most of the integration magic happens, from workflows to mapping. On top of this foundation is the Data Persistence module where big data technologies support storage and management. The Data Visualization module offers a deep dive, real-time look into the data and data flows through LENS™, our cloud-based Business Activity Monitoring solution.

THE LIAISON ALLOY HEALTH™ PLATFORM IS BRIMMING WITH CAPABILITIES

- Our tailored solutions on a multi-tenant cloud platform allow you the benefits of a solution unique to your issues and environment, but the benefits of cloud at the same time. The platform complies with SOC 2, HIPAA, PCI DSS, and Title 21 CFR Part 11 requirements.

- The Liaison ALLOY Health™ Platform offers microservices that are dedicated to specific business functions as simple as data transformation or as broad as complex process workflow. They enable a highly agile response to shifts in demand in your environment, providing incredibly fast “scale up” and “scale down” by executing a very large number of parallel processes in a loosely coupled manner.

- The secret sauce to the Liaison ALLOY Health™ Platform is our Contivo™ automated mapping solution. Contivo accelerates and simplifies the data conversion process, eliminating the need for laborious and complex hand-coding and reducing the time to create new maps. It also houses a powerful, patented algorithm for data profiling and cleansing. This means great time to value (TTV) and a lower cost to you.

- API management interfaces for integration and syndication of data are available through the Liaison ALLOY Health™ Platform. Your APIs are the glue that holds your applications together and we can make sure that everything stays in sync by enabling exchanges from the integration layer. In addition, the ALLOY Health™ Platform offers true API management from creation all the way up to consumption at the data layer.

- The Liaison ALLOY Health™ Platform’s big data technologies allow for limitless scale of processing and storage. It leverages open-source Big Data technologies for distributed data processing, storing, and management. This creates a massively scalable platform that can make sense of big data in virtual real time. With scalability no longer an issue, you can take integration to any level you wish.

- Supports all healthcare data standards - HL7, CDISC, OMOP, FHIR, IHE, SMART platforms and more.
The ALLOY Health™ Platform is supported through our fully managed services. Liaison leverages expertise gained interfacing large number of acute, ambulatory, labs, clinical trials, and other systems and our deep knowledge of practice/hospital/lab/pharma workflows to deliver the projects. Having Liaison manage your run-time activities frees up your resources to focus on initiatives that are core to your business – like realizing innovative ways to leverage your data. This shift could vastly change the contribution your organization makes in delivering value to the business. We become an extension of your team where you maintain tight control and good visibility into the process. Let us free you to focus on what matters!

Liaison ALLOY Health™ supports storing of structured and unstructured data and includes the key integration and ongoing data management functions required to produce clean, accurate and consistent patient health data. The platform has capabilities for connecting, cleansing, storing, merging, updating, loading and routing patient data. The platform is designed to support large data collections with millions of patient records, complex hierarchies, and hundreds of attributes for each record. See below graphic for the architecture of our mature Liaison ALLOY Health™ platform.

"Liaison offers the industry-leading cloud platform for integrating and harmonizing healthcare data. Through the use of Liaison’s robust ALLOY Health platform, we are able to increase the speed of Livongo deployments, while simultaneously allowing us to focus our internal development resources on further advancing our analytics capabilities.”

Amar Kendale
SVP, Strategy and Business Development
Livongo Health
THE LIAISON ALLOY HEALTH™ PLATFORM

LAB AND RADIOLOGY OUTREACH

The key to improving care is seamlessly connecting care among the many players that influence patient outcomes. From the physician that suspects disease condition to the lab that confirms the diagnosis to the specialist that treats them, and even the patient, each care participant is able to effect a better outcome with timely access to the complete data picture.

Liaison ALLOY Health™: Labs facilitates the interoperability needed to connect care across all provider levels. Compatible with any EHR, Liaison ALLOY Health™: Labs integrates lab and radiology orders and results with clinicians’ existing EHR workflows and patient portals for streamlined processes that reduce cost, time, and errors at all ends.

PURPOSE-SPECIFIC REGISTRIES FOR PROFILING AND TRACKING PATIENT POPULATIONS

Collecting data from multiple sources and using that data to recognize patterns is the dream of physicians, researchers and medical scientists. But as more data of various types and from varying sources becomes available to healthcare clinicians and researchers, the complexity—and expense—of bringing that data together, organizing it and making sense of it has only increased over time.

Liaison ALLOY Health™: Registry solutions make the scientists’ dreams a reality by providing comprehensive, sophisticated, and customizable registry capabilities that capture, aggregate (from any source), harmonize and cleanse the data, and then provide easy to use queries and dashboards to extract actionable data.

THE ALLOY HEALTH™ PLATFORM SOLVES EVEN THE MOST COMPLICATED DATA PUZZLES.

LONGITUDINAL PATIENT RECORD FOR CARE COORDINATION AND VALUE-BASED INITIATIVES

Emerging regulations and care delivery models – from Meaningful Use to Patient Centered Medical Homes (PCMHs) and Accountable Care Organizations (ACOs) – task health systems, hospitals and practices to achieve interoperability, improve care coordination, and enhance patient outcomes, all while maintaining or decreasing costs.

Liaison ALLOY Health™: Exchange offers the provider organizations a comprehensive cloud-based solution tailored to meet each individual organization’s needs. Our ability to effectively connect, integrate, aggregate and harmonize data can cure many of the information pains faced by hospitals, practices, and payers. In addition, our solution provides the highest level of data security, complying with HIPAA and HITECH requirements, safeguarding sensitive data at rest or while in transit.
ABOUT LIAISON TECHNOLOGIES

Liaison Technologies develops and delivers cloud-based integration and data management solutions that help companies unlock the power of data for faster, more informed decision-making. Tailored to solve complex data problems today while building a robust foundation for tomorrow’s challenges, Liaison’s secure, scalable products and services foster a seamless information flow by eliminating barriers between data silos.

Founded in 2000, Liaison serves over 7,000 customers in 46 countries, with offices in the United States, The United Kingdom, The Netherlands, Finland and Sweden.