

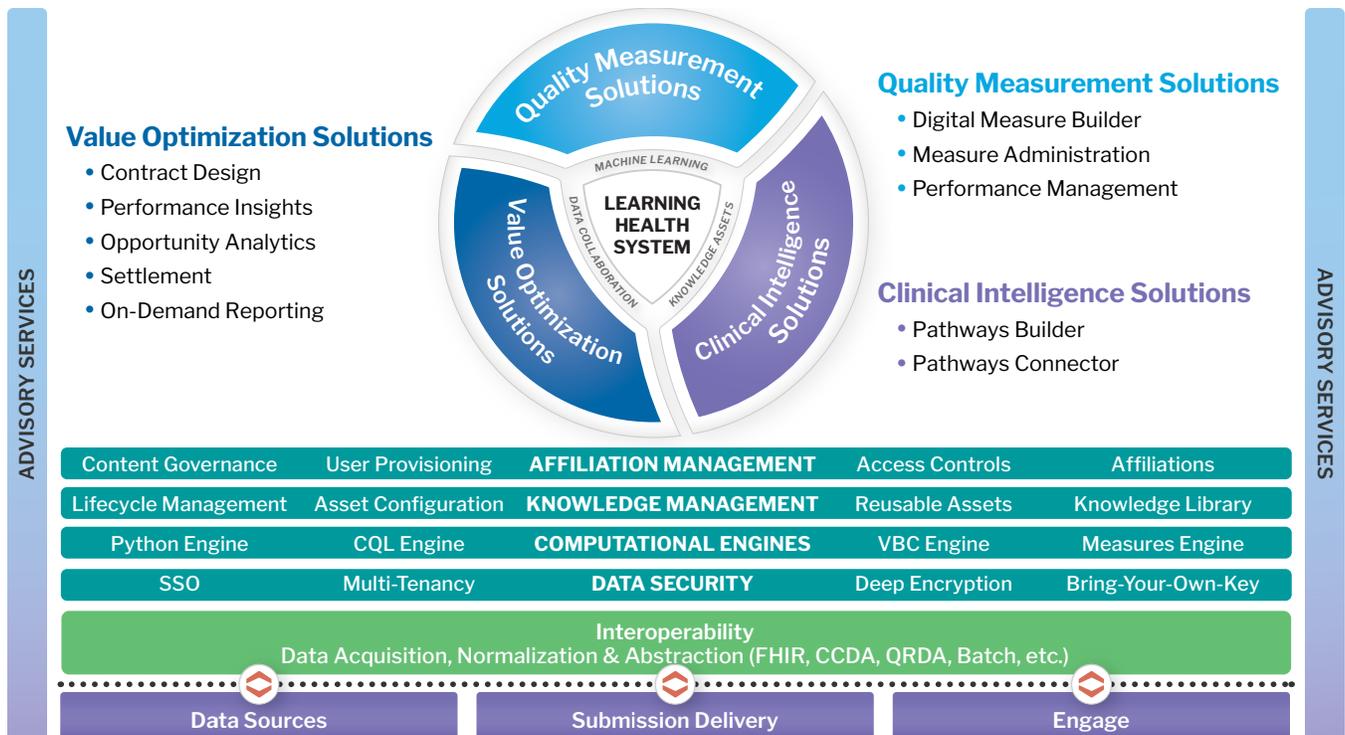
Delivering Solutions Essential for Trusted & Transparent Collaboration

Nothing exists in the market today that has the power to bring organizations and data together, and also provides deep healthcare knowledge engineering and clinical expertise. Until now. The scalable and extensible Apervita Vital Platform powers our core solutions—Quality Measurement, Value Optimization and Clinical Intelligence—and helps make the Learning Health System a reality.



Purpose-built for healthcare, our platform leverages premier technology to enable the transparency and collaboration required to solve the industry’s most challenging issues. Apervita leverages Amazon Web Services® (AWS®) and builds beyond those capabilities to tailor a unique platform built for scale and computational power. From its inception, the Apervita Vital Platform was designed as a scalable foundation. Apervita brought together some of the brightest minds with experience in building software for the banking industry and combined that with world-renowned experts in healthcare. The end result? A trusted collaboration platform that enables payers, providers and other healthcare stakeholders to transform quality measurement, value-based payment and care delivery.

The Apervita Vital Platform was purpose-built to enable the Learning Health System



Apervita is committed to making the Learning Health System a reality through our Quality Measurement, Value Optimization and Clinical Intelligence solutions, which are powered by the Apervita Vital Platform. With its innovative building blocks, our trusted collaboration platform creates transparency across the healthcare system to improve performance of care delivery.

The Platform's Differentiated Building Blocks

The Apervita Vital Platform was built on a set of capabilities essential to advance collaboration. Our core solutions leverage the platform's interoperability layer, computational engines, multi-tenancy capabilities, affiliations (connections), extensibility and top-notch security. The below outlines the building blocks that act as the platform's underlying foundation to support payers, providers and other stakeholders to improve performance of care delivery.

The Apervita Vital Platform offers an affiliation management framework, which sets us apart from a generic permissions and role-based control system.

Interoperability & data acquisition

Apervita understands data liquidity is more important than ever to achieve the transparency and collaboration necessary to improve patient care. Apervita's data acquisition methodologies provide the flexibility to support the diverse set of data systems and thousands of data source instances necessary to power payer and provider goals and objectives. Our data acquisition solution broadly supports both "push" and "pull" methodologies. Providers can push data to our ETL solution in several ways such as:

- Providing data extracts via Clarity® in Epic®, and from other EHRs
- Providing HL7® feeds (v2, CCD, FHIR®/Bulk FHIR)
- Our REST API, which can be customized to accept arbitrary data files via our plugin system
- Sem-automated chart abstraction capabilities enabled through machine learning

Our interoperability platform layer also leverages industry-leading normalization capabilities that map to Quality Data Model (QDM) 5.5 and FHIR R4.

Computational engines

Our platform leverages efficient, scalable Python®, Clinical Quality Language (CQL) and value-based contract engines. In particular, Apervita's CQL engine and build environment is a first-of-its-kind digital rules engine and build environment that allows for CQL-based digital measures to be ingested natively, without any human interpretation required. This capability is essential to advancing the industry toward standardized quality measurement. The engine is certified by the National Committee for Quality Assurance (NCQA) and The Office of the National Coordinator for Health Information Technology (ONC) and can support single patient real-time transactional use cases as well as batch reporting and data analysis use cases.

Knowledge asset library

The platform not only enables the CQL build environment, but also provides capabilities to effectively store knowledge assets for re-use, which significantly decreases the development life cycle and allows for industry stakeholders to build upon best practices. Apervita's build environment can accommodate a variety of knowledge representation formalisms for quality measures, clinical pathways and protocols, and controlled medical terminologies and ontologies.

Multi-tenancy capabilities

Apervita's multi-tenancy capabilities, such as permissions management and clear and defined segmentation of data, are critical, yet many organizations are unable to effectively meet this need. These features allow for permissions to be managed, configured and provisioned at the platform level, and administered on a per product basis. The multi-tenancy also allows for multi-user affiliation to multi-organizational networks. The knowledge artifacts and insight controlling capabilities to share data are also core features of the multi-tenancy capability of the Apervita platform. Paired with HIPAA compliance, this gives Apervita the ability to securely deploy and manage any set of computationally intensive data collaboration tools to tackle industry use cases such as measurement services, pre-authorization management and e-case reporting, all in a singular environment.

Affiliation management

Apervita's affiliation management feature, which was built on AWS cloud services and optimized through years of partnership with healthcare ecosystem partners, is what sets the platform apart from a generic permissions and role-based control system. Key highlights of Apervita's affiliation framework includes the ability to :

- Manage the complex web of healthcare relationships to ensure collaboration
- Allow users to create and manage connections inter- and intra-organizationally to collaborate, automate provisioning and share data and applications
- Support role-based access and customized governance models

Our platform framework allows for organizations to natively develop and provision applications for data collaboration, insight generation and/or seamlessly integration with external applications for downstream analysis, such as JIRA® service desk or Tableau®.

Platform extensibility

Unlike other systems in the industry, Apervita's platform is highly extensible, which provides the flexibility required to leverage a variety of tooling. The platform itself can be deployed on any cloud and object store service whether in a public utility mode or, based on the needs and/or request of the customer, in a private utility mode. This enables the user to be untethered to a single infrastructure provider and can use best-of-breed tooling to help take full advantage of the platform in a cost-effective way. Apervita's platform framework allows native and external products to be integrated under a single front door and utilize a single set of services via WSAPIs.

Unprecedented security

The above platform capabilities would not be possible without advanced security. Data used on the Apervita Vital Platform is managed with Deep Encryption™ technology, which encrypts data at the individual field level and provides customers with Bring-Your-Own-Key (BYOK) capability for enhanced data security.

Proven Scale

Currently supporting over 10 billion transactions annually and over 3,200 hospitals, Apervita has proven experience supporting large enterprise organizations, at scale. As your organization grows, our platform automatically expands compute power to maintain rapid performance. [Learn how we helped The Joint Commission](#) onboard 100 hospitals per week with the Apervita Vital Platform.

AWS Cloud Services Powers the Apervita Platform

Apervita leverages AWS cloud services including Amazon VPC™, Amazon EC2™, ElasticSearch™, Amazon S3™, Amazon Glacier™, AWS Lambda™, Amazon Kinesis™, AWS Glue™, Amazon Athena™, Amazon Aurora™, Amazon RedShift™, Amazon CloudWatch™, AWS CloudTrail™ and Amazon CloudFront™, as well as MongoDB Atlas™ on AWS, AlertLogic™ security monitoring and Sumo Logic™. These technologies were hand-picked to ensure scalability and meet the growing demands of controlled, secure data access.

Committed to Making the Learning Health System a Reality

Apervita not only has the technology in place but also the industry knowledge necessary to ensure the successful transformation of siloed systems into interoperable systems. With its innovative building blocks, the Apervita Vital Platform creates transparency and advances interoperability across the healthcare system to improve performance of care delivery. Our powerful platform, when combined with our core solutions, enables the Learning Health System, allowing for better-informed decisions that lead to saving lives, improving health and transforming our healthcare system into one that rapidly learns and continuously improves.

Ready to learn how our trusted collaboration platform can help you solve healthcare's toughest problems?

Contact us today at info@apervita.com or **312.257.2967**

Apervita is committed to making the Learning Health System a reality. We make this possible through our quality measurement, value optimization and clinical intelligence solutions powered by the Apervita Vital Platform. Our cloud-based, trusted collaboration platform and solutions enable payers, providers and other healthcare stakeholders to transform quality measurement, value-based payment and care delivery. Serving over 60% of hospitals in the United States and several nationally recognized plans, Apervita conducts more than 10 billion value-based computations and insights for our clients each year.

We're on a journey to create transparency across the healthcare system to improve performance of care delivery. To realize a national Learning Health System, we must have commitment from all stakeholders to leverage interoperable systems, to measure quality using standardized methods, to incentivize value-based care and to provide First Time Quality by using the best evidence available at the point of care, one patient at a time.

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