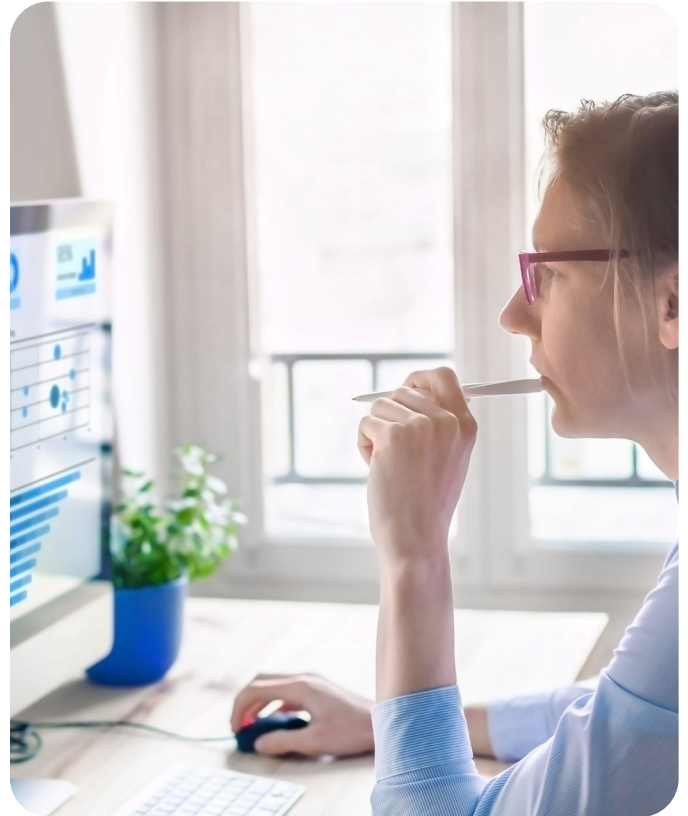


IQVIA Health Data Semantics Suite

Discover the future of healthcare terminology management

Healthcare and life sciences organizations are investing heavily in AI, data, and digitalization initiatives, yet many fail to realize the resulting benefits and efficiencies at scale. This is because the advantage lies in how effectively organizations can extract value from their data assets, which can be diverse, siloed and inconsistent. IQVIA, a global leader in the health data space, offers solutions to address this problem, encompassing content, platforms, and consultancy services.

The IQVIA Health Data Semantics Suite is a user-friendly set of integrated software tools designed to connect, curate, and standardize healthcare terminologies and ontologies across customer and third-party data assets. It supports distributed, collaborative, and governed management of ontologies, value sets, and mappings, and aligns data to coding standards such as SNOMED CT, ICD-10, LOINC, CDISC, and MedDRA.



Designed with stakeholder uptake and multi-system integration in mind, the IQVIA Health Data Semantics Suite drastically improves the development, integration, and maintenance of proprietary and third-party data standards, enabling you to do more with your data.

Core benefits



Standardized data for faster insights

The IQVIA Health Data Semantics Suite makes it easy to enable and maintain high-quality, harmonized data to power analytics and AI models. Well-governed, semi-automated maintenance of mappings and code lists empowers teams to build solid data foundations and scale innovation beyond proof of concept



Intuitive user interface means broad adoption

Quality data depends on people. That is why the IQVIA Health Data Semantics Suite offers a modern, interactive interface. Users find the platform easy to navigate and intuitive to use, right out of the box



Powerful systems integrations for greater impact

IQVIA Health Data Semantics Suite is designed to power data platforms and processes. Modular architecture and APIs that connect to existing systems facilitate seamless integration

The IQVIA Health Data Semantics Suite can help you...

MANAGE AND MAINTAIN LARGE HEALTHCARE AND LIFE SCIENCES TERMINOLOGIES AND ONTOLOGIES	ADHERE TO NATIONAL AND INTERNATIONAL STANDARDS	MAINTAIN CONNECTED AND CURATED DATA ACROSS ORGANIZATIONS
Efficiently store, retrieve, and update vast amounts of healthcare terminologies, code lists, reference data, and mappings. Access tools for mapping proprietary codes to standardized terminologies to ensure accuracy and consistency. A serviced content option is also available.	Ensure that healthcare and life sciences data adhere to established standards like SNOMED CT, which facilitates interoperability and data exchange across different healthcare systems. Get help implementing standards via our consultancy services.	Enable seamless integration with systems and processes across organizations, crucial for improving patient care, operational efficiency, and insights generation. Take a holistic approach to data enablement by combining our semantics suite with our privacy and responsible AI services.

Key features



1. IQVIA Ontology Platform

The Ontology Platform enables non-technical users to perform terminology mapping for data standardization, manage standards, build ontologies, and create content while facilitating collaboration across teams. These resources are made available to diverse organizations via user interfaces, APIs, or simple files.

- **Authoring and maintenance:** Continuously modify and add new terms, mappings, and value sets, ensuring high-quality content through robust validation processes
- **Collaborative environment:** A web-based, user-friendly way to set up organizations and teams with granular user access rights and issue tracking for efficient collaboration



2. IQVIA Ontology Server

The Ontology Server is a revision control system and database that supports an array of standard terminologies and local content, including FHIR-based code systems. With an emphasis on maintenance and data quality, it facilitates the updating, importing, managing, maintaining, validating, publishing, and collaborative editing of terminologies. The server can be deployed as a standalone solution for system integrators, or in conjunction with IQVIA Ontology Platform and IQVIA Ontology Authoring Tool.

- **Storage and retrieval:** Efficiently store and retrieve all types of healthcare terminology assets and ontologies
- **Mapping and API integration:** Seamlessly translate between different code systems and integrate with downstream systems using standard FHIR and proprietary REST APIs
- **Full versioning and logging:** Full versioning of content eases the integration of legacy data; logging of actions ensures traceability of decisions and governance



3. IQVIA Ontology Authoring Tool

The Ontology Authoring Tool is a versatile tool for modifying ontologies and terminologies, with a specialization in description logic reasoning and full support for all aspects of SNOMED CT. It is designed for specialists developing ontology content.

- **Ontology modeling:** Advanced features for ontology authoring, including description logic reasoning and complex modeling
- **Custom workflows:** Tailored workflows to meet specific client needs, ensuring adherence to strict editorial rules and validations



Technical specifications and feature highlights

- | | |
|---|--|
| <ul style="list-style-type: none"> • SaaS and local versions (cloud-agnostic and on-prem options) • Content syndication among multiple instances • Modular architecture • FHIR integration (R4, R5) • Governance for groups, processes | <ul style="list-style-type: none"> • Specialised APIs for ontology specific features and navigation • Full versioning and logging of all content and actions • Semi-automated processes for mappings and maintenance • Advanced ontology features support • Collaborative development support |
|---|--|

Key customer case studies

Customer successes



Comprehensive drug ontology at national scale

A national health tech agency used Health Data Semantics Suite to automate the creation and validation of a medicinal ontology from pharmacist entries. The resulting drug dictionary — now integrated with SNOMED CT — supports over 450,000 concepts and 3 million terms with near-zero error, and is used across all public healthcare institutions for prescribing and dispensing



FHIR-ready terminology for hospital systems

A system integrator deployed Health Data Semantics Suite to enable consistent terminology across hospital information systems, supporting FHIR-based interoperability and standardized clinical data capture



Accelerating cancer research with custom terminologies

A leading research hospital used Health Data Semantics Suite to build custom terminology codes mapped to global standards, improving clinical trial recruitment and enhancing data accuracy for oncology research

NHS England — managing national terminology releases

IQVIA's Center for Health Data Semantics helped NHS England improve the quality of patient care delivery with an integrated solution for streamlining management and publication of SNOMED CT for more than 1 million concepts spanning clinical, drug, and pathology data. Key results included:



Streamlined release process

- **99% reduction** in release integration time and a **2-day** turnaround for unscheduled emergency releases
- Integration and release of authoring changes were reduced from **12 weeks to a daily automated build**



Increased productivity

- More frequent but individually smaller releases enable the authoring **workload to be smoothed out over the full year**, reducing authoring stress



Improved quality and elimination of faulty releases

- Implementing automated full nightly builds ensured **ongoing quality assurance** and has eliminated the need for patch releases

Join us in transforming healthcare data

Experience the power of the IQVIA Health Data Semantics Suite. Our technology bridges the gap between raw data and actionable insights, enabling better patient care and improved healthcare outcomes. **Contact us at healthdatasemantics@iqvia.com to access our demo site or request a conversation with one of our experts** about your specific business needs.

