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IBM Explorys Cohort Discovery, IBM Explorys Therapeutic Datasets, and IBM Explorys Virtual Workbench provide life sciences insights into real-world care delivery

Table of contents

At a glance

IBM$^{(R)}$ Explorys$^{(R)}$ Life Sciences offerings are comprised of IBM Explorys Cohort Discovery, IBM Explorys Therapeutic Datasets, and IBM Explorys Virtual Workbench. The solutions are delivered as a software as a service (SaaS), data as a service (DaaS), and, optionally, platform as a service (PaaS).

By using the insights gleaned from solutions for IBM Explorys Life Sciences offerings, users can optimize the work across their organization, including drug development, clinical trials, market access, and commercial strategies to succeed in an increasingly value-focused, outcome-based environment.

- IBM Explorys Cohort Discovery is accessed through a web browser and enables users to search and browse populations, analyze relationships, define temporal events, and understand historical trends.
- IBM Explorys Therapeutic Datasets contain the underlying patient-level data for a study population based on a set of selection criteria. All available patient data is included, providing a full longitudinal history across the continuum of care.
- An IBM Explorys Virtual Workbench is accessed through a virtual private network connection and is used to access and analyze IBM Explorys Therapeutic Datasets.

Markets outside the United States

The United States healthcare industry is the largest market for medical products in the world. Global life sciences companies that understand United States healthcare population dynamics will have an advantage in this market. The adoption of value-based care in the United States has required that companies demonstrate the cost versus benefit of their products. The IBM Explorys Real World Evidence (RWE) database is representative of those seeking care in the United States. It can be used to develop clinical insights, inform product development, and make lifecycle decisions for medical products sold in this market.

Additionally, healthcare-derived data from the United States can be used to assess clinical and treatment outcomes when accounting for various geographic, socioeconomic, standard of care and treatment practices in other regions of the world. Therefore, IBM Explorys RWE is a valuable reference data set for global life sciences companies interested in the United States healthcare market, and modelling clinical outcomes to better understand disease and care management.

Overview

IBM Explorys Life Sciences solutions

- The solutions for life sciences empower researchers and analysts with a vast Real World Evidence (RWE) offering, providing a window into how the convergence toward value in the United States is impacting providers, patients, and treatments.
- The cloud-based big data platform maintains a connection to a multitude of clinical, operational, and financial data sources of integrated delivery networks in the United States, including electronic medical record (EMR) systems, primary care office practice management systems (PMS), laboratory information systems, healthcare billing systems, private and public insurance plan and payer claims feeds.
- Data is cleansed, standardized, normalized, and harmonized to create an unified longitudinal patient record connecting all data sources and venues of care.

By using the insights gleaned from solutions for IBM Explorys Life Sciences offerings, companies can optimize drug development, clinical trials, market access, and commercial strategies to succeed in an increasingly value-focused, outcomes-based environment.

- IBM Explorys Cohort Discovery enables the user to search and browse populations, analyze relationships, define temporal events, and understand historical trends.
- IBM Explorys Therapeutic Datasets contain the raw patient data for a study population based on a set of criteria. All available patient data is included, providing a full longitudinal history across the continuum of care.
- IBM Explorys Virtual Workbench is used to access and analyze IBM Explorys Therapeutic Datasets. Users can store analytic tables created from therapeutic datasets in a sandbox environment.

For all markets, the de-identified patient dataset is comprised of the patient population from the Explorys Provider Network in the United States. The international offering will not include patient populations outside of the United States at this time.

The user interface is English only. No localization is planned at this time. Service and support is English only and will adhere to the United States hours and days of operation. Contractual agreements and Terms of Understanding will be translated where necessary.

Technology (hardware and software) will not reside outside the United States. All access outside the United States is through a Virtual Private Network (VPN) connection to Virtual Desktop Infrastructure (VDI) in the data center in the United States.

Key prerequisites

- Internet connection
- Supported browser

For details, refer to the Technical information section.

Planned availability date

September 13, 2016

Description

As a consequence of United States healthcare reform and transformation, pharmaceutical, device, and biotech manufacturers must demonstrate both the clinical and economic value of their products. To gain reimbursement, they must show that products improve patient outcomes and lower treatment costs. Life sciences must communicate this differentiated value and the role of their products within the care continuum for successful market adoption.

The IBM Explorys Life Sciences offerings enable the industry to generate insights as to how strategies, services, and treatments must evolve to succeed in a changing marketplace. Life sciences industry stakeholders can perform high-level analysis on the entire IBM Explorys patient population through the IBM Explorys Cohort Discovery web-based application. In addition, advanced users can perform deeper analytics on the underlying patient-level data for a specific population defined in a specific dataset in IBM Explorys Therapeutic Datasets and accessed through a IBM Explorys Virtual Workbench. Organizations can use this data to support evidence-based messaging and differentiated positioning.

IBM Explorys Cohort Discovery

IBM Explorys Cohort Discovery is a browser-based high-speed search and analysis tool used for ad-hoc population analytics on either the entire patient population or on a specific IBM Explorys Therapeutic Datasets. IBM Explorys Cohort Discovery facilitates self-service data exploration without the need for SQL coding or advanced programming, making it ideal for hypothesis generation and validation. Life sciences users can search and browse patient populations and billions of data elements to analyze relationships, patterns, trends, and comparative outcomes.

Researchers and analysts can create population cohorts based upon numerous demographic and clinical factors, including patient demographics and clinical characteristics, such as age, gender, and geography, provider type, diagnoses, procedures, treatments, laboratory test results, observations, and vitals. They can further refine cohorts according to clinically relevant ranges, timeframes, care venues, and temporal associations between events. The underlying de-identified data for a patient can also be viewed through the Virtual Chart feature, providing visibility into the same patient-level data tables available in a specific dataset in IBM Explorys Therapeutic Datasets. Any population subgroup defined in IBM Explorys Cohort Discovery can be saved, shared with peers, or converted into a specific dataset in IBM Explorys Therapeutic Datasets for deeper analysis of the underlying patient-level data. IBM Explorys Life Sciences offerings' stakeholders may use IBM Explorys Cohort Discovery for:

- Hypothesis generation and initial exploration.
- Medication launch tracking.
- Clinical trial design and protocol feasibility.
- Market trends.
- Basic outcomes research and comparative analytics.
- Defining population of interest for advanced analytics.

IBM Explorys Therapeutic Datasets

IBM Explorys Therapeutic Datasets contain the underlying patient-level data for a selected set of patients based on predefined criteria or client-specified criteria. All patient data is made available statistically de-identified in a relational database format. A full longitudinal view of the patient's history is available across the care continuum. By definition, a specific dataset in the IBM Explorys Therapeutic Datasets is a subset of the entire IBM Explorys population. Subscription terms are typically three, six, or twelve months, but are also available for a longer term. Pricing for a specific dataset is value-based, influenced by both the size of the patient cohort and

the density of the data. Data density refers to the breadth and depth of the patient data available for the therapeutic area of interest.

A specific dataset subscription can be configured in the following ways:

- Static: A frozen data snapshot. No new patients or data will be included in cohort over time.
- Update: A fixed cohort with updated patient data. Any new data obtained for existing patients is provided each week. New patients who meet the cohort criteria are not included.
- Refresh: A fully dynamic cohort. The cohort undergoes a full data refresh each week. Any new data for existing patients is included along with new patients who meet the cohort criteria.

Each specific dataset in IBM Explorys Therapeutic Datasets subscription may be accessed through both an IBM Explorys Virtual Workbench and IBM Explorys Cohort Discovery.

IBM Explorys Virtual Workbench

An IBM Explorys Virtual Workbench is required to access an IBM Explorys Therapeutic Datasets subscription. Different types of virtual workbenches are available to meet the varying needs of life sciences users. Each IBM Explorys Virtual Workbench is assigned to a specific user. An IBM Explorys Virtual Workbench is a Microsoft™ Windows™ based virtual desktop residing within the IBM Explorys cloud that is securely accessed through a user's computer. Each IBM Explorys Virtual Workbench is equipped with IBM and third-party applications for access and analysis of IBM Explorys Therapeutic Datasets. Organizations may request additional third-party tools for inclusion in the workbench. If approved, the organization may incur additional fees for the licensing, installation, and support of the requested third-party tools.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be found on the IBM Accessibility website.

Product positioning

The healthcare industry is undergoing transformation, putting pressure on stakeholders (providers, payers, plans, pharmaceuticals, and patients) to adapt to emerging value-based delivery and reimbursement models. The changes being demanded require that life sciences organizations embrace advanced data management and analytics capabilities, and develop different go-to-market strategies.

The IBM Explorys Life Sciences offerings portfolio provides cutting edge solutions that utilize massive amounts of clinical, operational, and administrative data, giving pharmaceutical manufacturers the information to develop a compelling value proposition. Life sciences companies can use these solutions to identify the patient populations most likely to benefit from a given treatment, how their products can be incorporated into the continuum of care to help achieve provider objectives, determine the economic value created for populations, conduct cost-effectiveness research, develop safe and effective therapies for niche populations, evaluate how the convergence toward value is impacting provider behavior, design more efficient clinical trials, and track the market adoptions of new drugs immediately upon launch.

The IBM Explorys Life Sciences offerings, IBM Explorys Therapeutic Datasets accessed through IBM Explorys Virtual Workbenches and IBM Explorys Cohort Discovery, enable life sciences companies to uncover actionable insights that lead to safer, more effective therapies, new market opportunities, and more compelling value propositions.

The IBM Explorys Life Sciences offerings utilize data from more than 50 million unique patients and are always growing as new healthcare systems join the network. Data is integrated across the continuum of care, including acute (hospital inpatient, emergency, surgical), ambulatory (primary care, specialty centers, community practices) and post-acute care (long-term care, rehabilitation, home health). IBM Explorys maintains a connection to health care systems, allowing clinical, financial, and operational data to stream into a security enabled cloud daily. Rapid data updates allow life sciences organizations to respond to changing market demands, understand patient outcomes as they happen, and track the adoption of new drugs and treatments.

Data sources, utilized by the IBM Explorys Life Sciences offerings, include electronic medical records, laboratory information systems, outgoing billing systems, and adjudicated payer claims feeds. Data types include demographics, diagnoses, procedures, prescriptions, laboratory results, vital signs, biometrics, implantable devices, patient reported outcomes, and provider information across the continuum of care. Treatment information is available at the pharmacology class, ingredient, and brand level. Ingested data is transformed through an extensive curation process that maps data to national standards to allow for consistent search and access across all data sources.

Summary

Value-based care is transforming how life science companies develop treatments, market drugs, and are reimbursed. Life sciences companies that are able to harness and analyze data from disparate sources will succeed in this new era. By using IBM Explorys Cohort Discovery and IBM Explorys Therapeutic Datasets, life sciences companies can optimize drug development, clinical trials, and commercial strategies to succeed in an increasingly value-focused, outcomes-based environment.

IBM Watson™ Health

Watson™ Health is pioneering a new partnership between humanity and technology with the goal of transforming global health. Cognitive systems that understand, reason, and learn are helping people expand their knowledge base, improve their productivity, and deepen their expertise. With cognitive computing, companies are now able to see health data that was previously hidden, and do more than ever thought possible.

Additional information is available on the IBM Watson Health, and IBM Watson Health - Population Health Management websites.

Program number

Program number	VRM	Program name
5725-Z89	SaaS	IBM Explorys Cohort Discovery
5725-Z87	SaaS	IBM Explorys Therapeutic Datasets
5725-Z88	SaaS	IBM Explorys Virtual Workbench

Offering Information

Product information is available on the IBM Offering Information website.

More information is also available on the Passport Advantage® and Passport Advantage Express® website.

Publications

Product documentation is available from within the IBM Explorys Life Sciences offerings.

Technical information

Specified operating environment

Hardware requirements

None

Software requirements

Operating system

Minimum	Recommended
Microsoft™ Windows™ 7	Microsoft Windows 7, or later

Browsers

	Minimum	Recommended
Microsoft Internet Explorer	V9	Most recent nonbeta version
Google Chrome	36	Most recent nonbeta version
Mozilla Firefox	33	Most recent nonbeta version

A secure Ethernet network.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Packaging

This offering is delivered through the Internet. There is no physical media.

Security, auditability, and control

IBM Explorys Cohort Discovery, IBM Explorys Therapeutic Datasets, and IBM Explorys Virtual Workbench use the security and auditability features of the host software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

This product is only available through Passport Advantage. It is not available as shrinkwrap.

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

More information can be found on the IBM Software Value Plus website.

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, go to the Find a Business Partner page.

Product group: IBM Watson Health

Product:

- IBM Explorys Therapeutic Datasets: 5725-Z87
- IBM Explorys Virtual Workbench: 5725-Z88
- IBM Explorys Cohort Discovery: 5725-Z89

Product category: Watson Health

Passport Advantage

Part description	Part number
IBM Explorys Therapeutic Datasets (5725-Z87)	
IBM Explorys Therapeutic Dataset Low Density Therapeutic Dataset per Month	D1MQGLL
IBM Explorys Therapeutic Dataset - Medium Density Therapeutic Dataset per Month	D1MQKLL
IBM Explorys Therapeutic Dataset - High Density Therapeutic Dataset per Month	D1MQNLL
IBM Explorys Configuration Fee for Complex Therapeutic Datasets Therapeutic Dataset Set Up	D1MQRLL
IBM Explorys Customer Sandbox Region Terabyte per Month	D1MQSLL
IBM Explorys Customer Sandbox Region Terabyte Overage	D1MQTLL
IBM Explorys Physician Segmentation Service Request Pay Per Use	D1MQVLL
IBM Explorys Virtual Workbench (5725-Z88)	
IBM Explorys Virtual Workbench for Enterprise SAS Authorized User per Month	D1MR0LL
IBM Explorys Virtual Workbench Seat Transfer Fee Authorized User Set Up	D1MR2LL
IBM Explorys Virtual Workbench Seat Seat - Standard Desktop Authorized User per Month	D1MR3LL
IBM Explorys Virtual Workbench Seat Seat - Standard Desktop Authorized User Set Up	D1MR5LL
IBM Explorys Virtual Workbench Seat Seat - Professional Desktop Authorized User per Month	D1MR6LL
IBM Explorys Virtual Workbench Seat Seat - Professional Desktop Authorized User Set Up	D1MR7LL
IBM Explorys Virtual Workbench Seat Seat - Developer Desktop Authorized User per Month	D1MR8LL
IBM Explorys Virtual Workbench Seat Seat - Developer Desktop Authorized User Set Up	D1MR9LL
IBM Explorys Cohort Discovery (5725-Z89)	
IBM Explorys Cohort Discovery Seat Authorized User per Month	D1MRCLL
IBM Explorys Cohort Discovery Seat Transfer Fee Authorized User Set Up	D1MRDLL

Charge metric

Program name	Program number	Charge metric
IBM Explorys Cohort Discovery	5725-Z89	Authorized User
IBM Explorys Therapeutic Datasets	5725-Z87	Therapeutic Dataset, Terabyte
IBM Explorys Virtual Workbench	5725-Z88	Authorized User

Metric definitions

Authorized User: Is a unit of measure by which the Cloud Service can be obtained. Client must obtain separate, dedicated entitlements for each unique Authorized User given access to the Cloud Service in any manner directly or indirectly (for example: via a multiplexing program, device, or application server) through any means. Sufficient entitlements must be obtained to cover the number of Authorized Users given access to the Cloud Service during the measurement period specified in Client's Proof of Entitlement (PoE) or Transaction Document.

Therapeutic Dataset: Is a unit of measure by which the Cloud Service may be obtained. A Therapeutic Dataset is a unique collection of related sets of information for a specific disease that is composed of separate elements that are configured as a unit in the Cloud Service. Sufficient entitlements must be obtained to cover all patients managed or tracked within the Cloud Service during the measurement period specified in Client's PoE or Transaction Document.

Terabyte: Is a unit of measure by which the Cloud Service can be obtained. A Terabyte is 2 to the 40th power bytes. Sufficient entitlements must be obtained to cover the total number of Terabytes processed by the Cloud Service during the measurement period specified in Client's PoE or Transaction Document.

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Subscription

The IBM International Passport Advantage Agreement and the IBM SaaS Terms of Use or the IBM Cloud Services Agreement (CSA) and the Service Description govern your use of this offering.

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Refer to additional technical support information in the IBM Software as a Service Terms of Use document for the program.

Terms of Use

The program's *Terms of Use and CSA Service Description* document is available on the Software as a Service terms website.

Limited warranty

If warranted, refer to the warranty as stated in the Terms of Use document or the Cloud Services Agreement for this offering.

Money-back guarantee

No

Volume orders (IVO)

No

Passport Advantage applies

Yes, information is available on the Passport Advantage and Passport Advantage Express website.

Usage restriction

Yes

Refer to the Service Description and Terms of Use documents for information regarding any restrictions.

Software Subscription and Support applies

No

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

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Prices

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Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner for Software Value Plus. Additional information is also available on the Passport Advantage and Passport Advantage Express website.

AP distribution

Country/Region	Announced
AP IOT	
ASEAN *	Yes
India/South Asia **	Yes
Australia	Yes
Hong Kong	No
Macao SAR of the PRC	No
Mongolia	No
New Zealand	Yes
People's Republic of China	No
South Korea	No
Taiwan	No
Japan IOT	
Japan	Yes

* Philippines, Singapore, and Thailand

** India

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