

IBM Data Science Experience Local renamed IBM Watson Studio Local and IBM Decision Optimization for Data Science Experience renamed IBM Decision Optimization for Watson Studio help data scientists and business analysts increase their productivity

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At a glance

IBM Watson^(R) Studio Local V1.2.2, formerly IBM^(R) Data Science Experience Local, capabilities:

- Accelerates the machine and deep learning workflows required to infuse artificial intelligence (AI) into your business to drive innovation
- Provides a suite of tools for data scientists, application developers, and subject matter experts so they can collaboratively connect to data, manipulate that data, and use it to build, train, and deploy models at scale
- Helps create successful AI projects by using a combination of algorithms, data, team work, and a very powerful compute infrastructure

IBM Decision Optimization for WatsonTM Studio V1.2.2, formerly IBM Decision Optimization for Data Science Experience, includes updates to the graphic user interface to align with IBM Watson Studio.

Overview

There was a gap between data experts and domain experts. Only highly technical professionals in IT could organize and make sense of the vast amounts of data. Only domain experts could successfully convert data into the rich knowledge needed by artificial intelligence (AI). But domain experts and IT professionals worked in silos, with different tools and no visibility to each others work. The result was AI that fell short in its promise to augment people's expertise.

Watson Studio Local V1.2.2 closes the gap with a unified experience to create new insights from knowledge contained in the data. Watson Studio enables multidisciplinary teams across the organization to collaborate. Rich collaboration is key to unlocking the full potential of AI.

Watson Studio Local provides a choice of tools for the full AI lifecycle, which is comprised of defining project objectives, acquiring and exploring the data, building the model data, interpreting the model and communicating model insights, and documenting the results. Watson Studio Local tools include best-of-breed open source and IBM tools. You can choose between code or no-code tools to build and train your own machine learning and deep learning models, or easily retrain and

customize pretrained Watson APIs. Use the rich capabilities and controls to fine tune models and automate the feedback loop of models so they become smarter, over time, and continually adapt to changing conditions.

Decision Optimization for Watson Studio provides an environment for optimization developers through the use of the model builder or the Python API in Notebooks. The graphical user interface is updated so it is consistent with Watson Studio Local.

Organizations can deploy their models in production using Watson Machine Learning local capabilities. This was previously achieved using Data Science Experience Local Model Management and Deployment. The result is a Representational State Transfer (REST) endpoint available for integration in business applications.

Key prerequisites

Watson Studio Local can be deployed in three or nine physical or virtual server configurations on a variety of Linux^(R) operating systems. It supports multiple browsers. For additional information, see the [Technical information](#) section.

Decision Optimization for Watson Studio requirements:

- IBM Data Science Experience Local
- Three-node or nine-node physical or virtual server configurations on x86-64 systems
- Red Hat Enterprise Linux Server 7.0 (x86-64) or a Linux on Power^(R) operating system

Planned availability date

October 2, 2018

Offering ID numbers

Find client references

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For the latest reference materials, see the [IBM Client Success Central](#) portal or access it from the new Reference Requests section within an IBM SalesConnect opportunity record.

You should also submit new references through CSC so that others can reference your clients' successful experiences.

Marketing information

Marketing channels

- IBM Sales Specialists
- IBM Digital Sales Centers
- IBM authorized Business Partners
- IBM Marketplace

Field support

Not applicable.

Configurator information

The following configurator aid will support this announcement:

Configurator aid	Date available
None	Not applicable

Business Partner terms and conditions

See the relevant product exhibits on the [IBM Product Groups and Exhibits](#) page of the IBM PartnerWorld^(R) website.

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Description

In order to apply artificial intelligence, the first step of the workflow starts with connecting and accessing data. Data scientists spend up to 80% of their time finding and preparing data, and 57% of data scientists say that cleaning and organizing data is the least enjoyable part of their job. The problem is not just limited to data scientists. Business analysts face similar struggles obtaining the data they need to build reports, often having to wait weeks for their IT team to extract data from the source systems.

To address the issue, Watson Studio Local V1.2.2 delivers integrated capability to refine and manipulate data with Data Refinery, a tool that makes fast, self-service data preparation a reality. Watson Studio Local comes with more than 35 data connectors to data sources, whether they are in the IBM CloudTM, third-party clouds or application, or on-premises.

Once Watson Studio Local is connected to data, the next step is to build and train models. Application developers can get started with pretrained Watson APIs, which are among the most accurate in the industry. These models will understand sentiment, classify topics in text, identify personality insights, or recognize objects in a photo. You have access to well documented APIs with samples and code snippets in popular programming languages.

Not all organizations have access to talent and resources to advanced machine and deep learning technologies. That is why Watson Studio Local offers simple tools to help transfer knowledge to Watson with your own data. One simple tool is the Watson Visual Recognition service, which helps organizations train custom models with their own images to suit specific visual recognition needs.

The machine and deep learning landscape is constantly changing. In Watson Studio Local, organizations will find support for tools, providing users choice to easily train, save, deploy, and automate the retraining of those models. The tools come pre-installed and Watson Studio Local manages the underlying infrastructure so you can focus on projects.

Use Python, R, or Scala in Jupyter Notebook or RStudio^(R). Notebooks are a popular environment to create and share documents that contain live code, equations,

visualizations, and explanatory text. Uses include data cleaning and transformation, numerical simulation, statistical modeling, machine learning, and much more.

Although open source code in Python and R is popular because of the low cost, flexibility, and power, the time required to properly create code and ensure that it is working correctly can sometimes be frustrating. Watson Studio Local understands that not everyone is a programmer. For those visual modelers, you have two tools:

- IBM SPSS[®] Modeler: An intuitive interface that is intended to be easy for everyone to learn and use, from business users to data scientists. Uncover valuable insights quickly for rapid time-to-value just by using drag-and-drop capabilities. There are thousands of SPSS Modeler users who can import and bring their SPSS streams into Watson Studio Local.
- Advanced AI models have grown in complexity and may require terabytes of data to train. There is a lot of innovation happening around increasing processing capabilities with CPUs, graphics processing units (GPUs), distributed training, and more. Watson Studio Local provides the flexibility to select the hardware for experiments and train models. Organizations can quickly scale up or down compute resources and customize their data science package dependencies within Watson Studio Local's multiple environments.

Each compute environment is dedicated for each project collaborator, so no more competing for resources. Watson Studio Local provides open source and commercial package management capabilities that the data scientist can bring into their Watson Studio Local in order to perform their work in Notebooks, RStudio, and machine learning. The popular conda environment definitions are used for customization. The compute environments are project assets and can be shared and reused by all members of your team for reproducible research.

Moving a model into production is typically a tough task, and deployment requires help from busy IT specialists. Watson Machine Learning Local, formerly Data Science Experience Local Model Management and Deployment, a chargeable component of Watson Studio Local, helps with this task. When a single deployment can take weeks, it is no wonder that most data scientists prefer to hand over their latest model and move onto the next project, rather than persist with the drudgery of continually retraining and redeploying their existing models.

With Watson[™] Machine Learning Local, it is possible to automate the retraining of models, and to monitor how the performance of those models evolve over time. This is known as continuous learning, which is unique to Watson Studio Local. Thresholds can be set up, and if the performance varies from the defined threshold, Watson Studio Local sends alerts and notifications so the data scientist can act.

Models are dynamic assets that need to be updated periodically, which is why it is key to have version control so the user can roll back to previous versions when needed. Access is available through APIs and UI.

Dashboards in Watson Studio Local help organizations add end-to-end data visualization capabilities to applications so users can easily drag and drop data to quickly find valuable insight and create visualizations on their own.

Interactive dashboards produce visualizations directly from data in real time. Smart data analysis and visualization capabilities help the data scientist discover underlying patterns and meanings in their data. Data can be explored using filtering and navigation paths. Users can embed dashboards into the application's context to help keep users engaged.

Watson Studio Local gives an organization's models the chance to do what they were always meant to do: learn. By continuously training models using the latest data, organizations can help ensure that they continue to reflect business realities, giving you the insight needed to make smarter decisions and seize competitive advantage.

IBM decision optimization offerings are used for helping make business decisions requiring analysis, such as operations, tactical, and strategic planning, as well as scheduling for a variety of industries, including manufacturing, energy and utilities, finance, logistics, and more. Creating optimization-based business

applications typically involves collaboration between operations research experts, IT developers, and business users. These applications typically combine constraint-based optimization models, data connectors, business user interfaces, connectors to other analytics, or business functions, for example, prediction or control systems, in order to find solutions to the models. A solution to an optimization model serves as decision proposals for line-of-business users. Decision optimization products deliver the core technology for mathematical optimization and enhanced tooling to support all parties that work with mathematical optimization and benefit from it.

Decision Optimization for Watson Studio is one of the latest tools in the IBM decision optimization offering portfolio. It uses the wealth of functionality and tooling available in Watson Studio Local and adds mathematical optimization engines and tools to develop the optimization model. This empowers data scientists, optimization experts, business analysts, and application developers to use optimization in an unprecedented way. They are enabled to collaborate on defining and deploying enhanced optimization models for line-of-business experts and decision-makers.

Using Decision Optimization for Watson Studio eases this collaboration between predictive and prescriptive analytics, since the user can both develop and deploy their predictive models to get the expected forecasts, and integrate them in their optimization model data.

Accessibility by people with disabilities

A US Section 508 Accessibility Compliance Report containing details on accessibility compliance can be found on the [Product accessibility information](#) website.

Program number

Program number	VRM	Program name
5737-D37	1.2.2	IBM Watson Studio Local
5737-F42	1.2.2	IBM Decision Optimization for Watson Studio

Education support

For education information regarding Watson Studio Local, see the [IBM Watson Studio Local - content hub](#) website.

Publications

For Decision Optimization for Watson Studio and Watson Studio Local, updated documentation will be available on the [IBM Watson Studio Local - content hub](#) website on the planned availability date.

Packaging

These offerings are delivered through the internet as an electronic download. There is no physical media.

More information about Watson Studio is available from [IBM Marketplace](#).

On IBM Marketplace, you can discover, try, and buy software, hardware, and services from IBM and third-party providers.

Technical information

Watson Studio Local can be deployed in three or nine physical or virtual server configurations on a variety of Linux operating systems. It supports multiple browsers.

Hardware and software requirements for Watson Studio Local and the Watson Machine Learning Local component can be found on the [Watson Studio Local content hub](#) website.

Decision Optimization for Watson Studio can be deployed in three-node or nine-node physical or virtual server configurations on x86-64 systems. See the latest hardware and software requirements for Decision Optimization for Watson Studio on the [IBM Software Product Compatibility Reports](#) website. Select "Detailed system requirements" to search for the specific requirements.

Ordering information

Passport Advantage^(R)

IBM Watson Studio Local (5737-D37)

New part description	Part number	Previous part description
IBM Watson Studio Local Authorized User Monthly License	D1SR9LL	IBM Data Science Experience Local Enterprise Edition Authorized User Monthly License
IBM Watson Studio Local Authorized User License + SW Subscription & Support 12 Months	D1SR7LL	IBM Data Science Experience Local Enterprise Edition Authorized User License + SW Subscription & Support 12 Months
IBM Watson Studio Local Authorized User SW Subscription & Support Reinstatement 12 Months	D1SR8LL	IBM Data Science Experience Local Enterprise Edition Authorized User SW Subscription & Support Reinstatement 12 Months
IBM Watson Studio Local Authorized User Annual SW Subscription & Support Renewal 12 Months	E0NIPLL	IBM Data Science Experience Local Enterprise Edition Authorized User Annual SW Subscription & Support Renewal 12 Months
IBM Watson Machine Learning Local Virtual Processor Core Monthly License	D20BNLL	IBM Data Science Experience Local Model Management and Deployment Virtual Server Monthly License
IBM Watson Machine Learning Local Virtual Processor Core License + SW Subscription & Support 12 Months	D20BJLL	IBM Data Science Experience Local Model Management and Deployment Virtual Server License + SW Subscription & Support 12 Months
IBM Watson Machine Learning Local Virtual Processor Core SW Subscription & Support Reinstatement 12 Months	D20BKLL	IBM Data Science Experience Local Model Management and Deployment Virtual Server SW Subscription & Support Reinstatement 12 Months
IBM Watson Machine Learning Local Virtual Processor Core Annual SW	E0PJHLL	IBM Data Science Experience Local Model Management and Deployment Virtual Server

New part description	Part number	Previous part description
Subscription & Support Renewal 12 Months		Annual SW Subscription & Support Renewal 12 Months

IBM Watson Studio Local (5737-D37)

New part description	Part number	Previous part description
IBM Watson Studio Local for IBM Z [®] Authorized User License + SW Subscription & Support 12 Months	D1VDELL	IBM Data Science Experience Local Enterprise Edition for IBM Z Authorized User License + SW Subscription & Support 12 Months
IBM Watson Studio Local for IBM Z Authorized User Monthly License	D1VDGLL	IBM Data Science Experience Local Enterprise Edition for IBM Z Authorized User Monthly License
IBM Watson Studio Local for IBM Z Authorized User Annual SW Subscription & Support Renewal 12 Months	E0NXULL	IBM Data Science Experience Local Enterprise Edition for IBM Z Authorized User Annual SW Subscription & Support Renewal 12 Months
IBM Watson Studio Local for IBM Z Authorized User SW Subscription & Support Reinstatement 12 Months	D1VDFLL	IBM Data Science Experience Local Enterprise Edition for IBM Z Authorized User SW Subscription & Support Reinstatement 12 Months
IBM Watson Machine Learning Local IBM Z Virtual Processor Core Monthly License	D20BPLL	IBM Data Science Experience Local Model Management and Deployment Virtual Server for IBM Z Monthly License
IBM Watson Machine Learning Local IBM Z Virtual Processor Core License + SW Subscription & Support 12 Months	D20BLLL	IBM Data Science Experience Local Model Management and Deployment Virtual Server for IBM Z License + SW Subscription & Support 12 Months
IBM Watson Machine Learning Local IBM Z Virtual Processor Core SW Subscription & Support Reinstatement 12 Months	D20BMLL	IBM Data Science Experience Local Model Management and Deployment Virtual Server for IBM Z SW Subscription & Support Reinstatement 12 Months
IBM Watson Machine Learning Local IBM Z Virtual Processor Core Annual SW Subscription & Support Renewal 12 Months	E0PJILL	IBM Data Science Experience Local Model Management and Deployment Virtual Server for IBM Z Annual SW Subscription & Support Renewal 12 Months

IBM Decision Optimization for Watson Studio (5737-F42)

New part description	Part number	Previous part description
IBM Decision Optimization for Watson Studio Development Edition per Authorized User License + SW Subscription & Support 12 Months	D1VNPLL	IBM Decision Optimization for Data Science Development Edition per Authorized User License + SW Subscription & Support 12 Months

New part description	Part number	Previous part description
IBM Decision Optimization for Watson Studio Deployment Edition per Virtual Processor Core SW Subscription & Support Reinstatement 12 Months	D1VNQLL	IBM Decision Optimization for Data Science Deployment Edition per Virtual Processor Core SW Subscription & Support Reinstatement 12 Months
IBM Decision Optimization for Watson Studio Deployment Edition per Virtual Processor Core Monthly License	D1VR0LL	IBM Decision Optimization for Data Science Deployment Edition per Virtual Processor Core Monthly License
IBM Decision Optimization for Watson Studio Deployment Edition per Virtual Processor Core Annual SW Subscription & Support Renewal 12 Mon	E0NZRLL	IBM Decision Optimization for Data Science Deployment Edition per Virtual Processor Core Annual SW Subscription & Support Renewal 12 Mon
IBM Decision Optimization for Watson Studio Deployment Edition per Virtual Processor Core License + SW Subscription & Support 12 Months	D20CQLL	IBM Decision Optimization for Data Science Deployment Edition per Virtual Processor Core License + SW Subscription & Support 12 Months
IBM Decision Optimization for Watson Studio Deployment Edition per Virtual Processor Core SW Subscription & Support Reinstatement 12 Months	D20CRLL	IBM Decision Optimization for Data Science Deployment Edition per Virtual Processor Core SW Subscription & Support Reinstatement 12 Months
IBM Decision Optimization for Watson Studio Deployment Edition per Virtual Processor Core Monthly License	D20CSLL	IBM Decision Optimization for Data Science Deployment Edition per Virtual Processor Core Monthly License
IBM Decision Optimization for Watson Studio Deployment Edition per Virtual Processor Core Annual SW Subscription & Support Renewal 12 Mon	E0PJMLL	IBM Decision Optimization for Data Science Deployment Edition per Virtual Processor Core Annual SW Subscription & Support Renewal 12 Mon

Terms and conditions

The following License Information documents apply to the offering in this announcement:

Program identifier	License Information document title	License Information document number
5737-D37	IBM Watson Studio Local	L-KLSY-B3GTHB
5737-D37	IBM Watson Machine Learning Local	L-KLSY-B3GTPU
5737-F42	IBM Decision Optimization for Watson Studio	L-ASAY-B4LEMN

Select your language of choice. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

Prices

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative, authorized IBM Business Partner, or authorized IBM Business Partner for Software

ValueNet, if applicable. For additional information about the Passport Advantage Agreement, go to the [Passport Advantage and Passport Advantage Express^{\(R\)}](#) website.

Latin America distribution

All Latin American countries, except Cuba.

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For the most current information regarding IBM products, consult your IBM representative or reseller, or go to the IBM worldwide contacts page

[IBM Directory of worldwide contacts](#)

Corrections

(Corrected on October 19, 2018)

Updated Ordering information section