IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0 enables organizations to cost effectively analyze and score data in real time

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At a glance

IBM® SPSS® Modeler with Scoring Adapter for zEnterprise® can help you improve first contact resolution with personalized offers, while reducing the chance of fraud at the point of impact.

Version 16 adds the following features and benefits:

- Broader analytics to address a wider range of problems with additional analytic capabilities
- Faster results, increasing performance and execution of predictive models
- Flexible deployment, using existing IT investment and integrating with other IBM products

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: LE001).

Overview

IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0 offers the following benefits:

- Enables users to discover patterns and trends in data using a unique visual interface supported by statistical algorithms.
- Uses IBM DB2® for z/OS® as a data source and can analyze structured (age, price, product, location) data.
- Offers an extensive range of analytics to address a variety of business problems; uses analytics ranging from descriptive analytics to advanced algorithms, including automated modeling.
- Uses predictive analytics and scoring to help get the most out of every customer interaction to increase revenues and loyalty; prevents threats, mitigates risk of fraud, and reduces cost.
- Integrates with operational systems and scores in real time all business transactions to help maximize the impact of predictive analytics across an organization.
- Supports the interaction between expert analysts and business users.
**Key prerequisites**

Refer to the Software requirements section.

**Planned availability date**

February 14, 2014

**Description**

IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0 is a comprehensive predictive analytics platform, designed to bring predictive intelligence to decisions made by individuals, groups, systems, and the enterprise. It offers a range of advanced algorithms and techniques, including text analytics, entity analytics, real-time scoring, decision management, and optimization. IBM SPSS Modeler scales from desktop deployments to integration within operational systems, enabling organizations to help improve their business process and help people or systems consistently make the right decisions to deliver recommended actions at the point of impact. With IBM SPSS Modeler with Scoring Adapter for zEnterprise, you have the ability to proactively and repeatedly reduce costs and increase productivity.

Highlights of this release include:

- Broader analytics
- Faster results
- Flexible deployment

**Broader analytics**

The comprehensive capabilities of IBM SPSS Modeler exceed the analytic requirements of analysts by including techniques such as decision management, simulation, optimization, entity analytics, and the ability to take advantage of and extend the use of R to address the most sophisticated problems.

**Faster results**

New scoring adapters and support for SQL optimization and in-database modeling capabilities deliver performance benefits and reduced data movement to deliver results and make analysis faster.

**Flexible deployment**

SPSS Modeler with Scoring Adapter for zEnterprise V16.0 open architecture supports the following:

- Deployment on Linux™ for System z® and a range of languages
- Integration with IBM DB2 for z/OS for real-time transactional scoring
- Improved integration with IBM products, such as additional model scoring within IBM SPSS Analytic Server
- Integration with IBM Cognos® TM1® enabling organizations to better use their existing systems to maximize performance

IBM SPSS Modeler is now available in three editions.

**IBM SPSS Modeler Gold:** Enables organizations to build predictive models to improve business process and help people or systems make the right decisions each time. It combines and integrates predictive analytics, rules, scoring, and optimization techniques to deliver recommended actions at the point of impact.
• **IBM SPSS Modeler Premium**: Offers a range of advanced algorithms and capabilities including text analytics, entity analytics, social network analysis, and automated modeling and preparation techniques to address a multitude of business problems and analytic requirements on almost any type of data.

• **IBM SPSS Modeler Professional**: Includes a range of advanced algorithms, data manipulation, and automated modeling and preparation techniques to build predictive models and uncover hidden patterns in structured data.

IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0 is only offered as SPSS Modeler Professional.

IBM SPSS Modeler helps organizations to go beyond traditional data mining. Its broad range of analytics and deployment capabilities enable you to integrate analytic techniques into business systems so that organizations can do the following:

• Use the strengths and analytics of various databases on the market
• Automatically prepare, cleanse, and transform data for the best possible analytics
• Use an array of prebuilt algorithms to visually and intuitively create predictive models
• Offer constraint-based optimization techniques
• Automate and apply scoring, and deploy and distribute scores across the enterprise
• Improve efforts in the area of compliance, governance, and speed by building enterprise-wide business rules through integration with IBM Operational Decision Manager

**What's new**

**New R nodes and Custom Dialog Builder for R**

By utilizing the R-Essential tool, in addition to the R Model Build and Apply node, introduced in SPSS Modeler V15 FP2, this release adds two new nodes: R Process and R Output. With the R Process node, you can take data from an IBM SPSS Modeler stream and apply transformations to the data using R scripting. With the R Output node, you can use your own custom R scripts to perform data analysis and to summarize the results of model scoring. You can produce text and graphical output of the output of your analyses. This output can be directed to a file or viewed in the R Output Node Output Browser.

The Custom Dialog Builder enables you to create custom Model Build and Apply, Process, and Output node types including field chooser, text, number, radio buttons, and subdialog controls to enable abstraction and parameterization of R programs. You can choose the node type, destination palette, and node icon before installing the node or sharing the node for use by other modeler client users. The custom dialog builder is launched from the Tools menu.

**R in database**

SQL pushback is supported for R nodes, IBM Netezza®, SAP Hana, and Oracle by leveraging their R support.

**Monte Carlo simulation**

A new Simulation Source node delivers an easy way to generate synthetic data from scratch using a wide selection of statistical distributions. Alternatively, the new Fitting node can automatically build a preconfigured source node reflecting the distributions of and relationships between historical variables. The Simulation Evaluation node is a terminal node designed to evaluate fields resulting from a simulated analysis stream. It includes useful distribution and correlation charts.
IBM Cognos TM1 Source and Export nodes

Cognos TM1 enables you to access Cognos TM1 Cube Views via the Cognos TM1 Source node and score data back to an existing Cognos TM1 cube using the Cognos TM1 Export node.

Python scripting

Scripting in SPSS Modeler, which automates processes in the user interface, can now use the Python language, as well as continuing to support the legacy scripting mode. Python includes a rich set of features including a concise syntax, error handling, and powerful add-on modules.

Looping and conditional execution

These new options enable simple looping and conditional execution of streams without needing to code scripts.

Space Time Boxes node

Create bins of location and time-stamp data to support more sophisticated analyses. In hangout mode, this node also identifies times and places where entities dwell. Additional expression builder functions support the extraction of space time box centroids as well as geohashing.

Entity analytics enhancements

As well as resolving individual entities, you can now identify n-degree relationships between entities. Additional support is included for real-time updating via the streaming node, flattening resolved entities (distinct node) and for anonymizing data as it is fed into an entity repository.

New Distinct node option for creating a composite record

With this option, you can specify a method of aggregation for each field being grouped (first value, last value, concatenate values) rather than discarding duplicate records. Whereas the aggregate node is typically used for summarizing data to a higher level, this new option is used for flattening duplicates, such as those identified through entity resolution.

Aggregate expressions and Window Aggregate functions

Users can create custom aggregation expressions in the Aggregate node, incorporating Built-in Aggregate functions (MEAN, SUM) and Database Aggregate User Defined functions. In Derived expressions, users can derive fields that require windowed aggregation functions (such as moving averages). Built-in and database-defined window aggregate functions are available.

New Receiver Operator Characteristic Evaluation node chart type and Area Under the Curve and Gini metrics in Analysis node

These nodes support binary targets.

Streaming Time Series Process node

Build and score time series models in a single step to enable real-time deployment via IBM InfoSphere® Streams, IBM SPSS Collaboration and Deployment Scoring Service, or IBM SPSS Solution Publisher.

Support for scoring text mining models via Database Scoring Adapters

New database scoring adapter is available for IBM DB2 on Linux, UNIX™, and Microsoft™ Windows™.
IBM Netezza Analytics in-database mining enhancements

Support is available for the new Netezza TwoStep algorithm, additional Helper Application option to view and delete Netezza analytic models, and model viewers for regression trees, decision trees, Kmeans, and TwoStep.

**Note:** This support requires IBM Netezza Analytics V3.0.

**Preview button**

When used in conjunction with a database source, the preview button enables SQL pushback to be viewed. When used in conjunction with an Analytic Server data source, use the Preview button to receive information on potential large data movements.

**New IBM SPSS Analytic Server options in the Auto Classify and Auto Numeric nodes**

When running a stream against IBM SPSS Analytic Server, you can choose between running with Splits enabled (if you are using the split model feature, use this option) or Very Large Data options. (Splits are ignored, and the modeling objectives are set for big data.)

**Enhanced integration with IBM SPSS Analytic Server**

Scoring in IBM SPSS Analytic Server is now supported for the Auto Classifier, Auto Numeric, and Auto Cluster.

**Note:** Only a subset of model types can be built in IBM SPSS Analytic Server, but scoring is supported for all algorithms used by the Auto Modelers. In addition, updating split models stored in Analytic Server is now supported.

**Data View source node**

The Data View node enables you to read data from an Analytic Data View into an IBM SPSS Modeler stream. The Analytic Data View is a new way to create a unified data view in IBM SPSS Collaboration and Deployment Services V6.

**Other enhancements**

- Teradata query banding in database connection presets
- Updated GLMM node options
- Support for encrypted and compressed .sav files
- Support for IBM SPSS Modeler Server single sign-on (SSO) without requiring IBM SPSS Collaboration and Deployment Services
- Database layer support for SSO
- SQL pushback for the sample node for DB2 for z/OS
- R nodes installed as part of the base IBM SPSS Modeler installation, not separately via the IBM SPSS Modeler Extensions for Analytic Server
- IBM SPSS Modeler Adapters for Collaboration and Deployment Services installed via IBM Installation Manager
- Added support for Russian language localization

**Accessibility by people with disabilities**

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).


Section 508 of the US Rehabilitation Act

IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0 is capable as of February 14, 2014, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested on the following website

http://www.ibm.com/able/index.html

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Software Subscription and Support

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Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website

http://www.ibm.com/services/learning/

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Offering Information

Product information is available via the Offering Information website

http://www.ibm.com/common/ssi

Publications

The IBM Publications Center

http://www.ibm.com/shop/publications/order
The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

## Technical information

### Specified operating environment

#### Hardware requirements
For information on hardware requirements, refer to the website listed in the Software requirements section.

#### Software requirements
View the hardware and software requirements for SPSS Modeler at

https://swginfocenter.raleigh.ibm.com/infocenter/prodguid/v1r0/clarity/softwareReqsForProduct.html

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

#### Direct customer support
Direct customer support is provided by IBM Operational Support Services - SoftwareXcel. This fee service enhances your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products.

Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or visit

http://www.ibm.com/support

### Packaging

**IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0**

- License DVD Multilingual (GC19-4166-00)
- A 3590 tape containing IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0
- IBM SPSS Modeler Client V16.0 Microsoft Windows Multilingual (without license keys) DVD (LCD4-8532-00)
- IBM SPSS Modeler Server V16.0 Multiplatform Multilingual DVD (LCD4-8533-00)
- IBM SPSS Data Access Pack V7.1 Multiplatform English DVD (LCD4-8534-00)
- IBM SPSS Data Collection Survey Reporter Developer Kit V7.0 Microsoft Windows Multilingual DVD (LCD4-8535-00)
- IBM SPSS Modeler V15.0 Collaboration and Deployment Services Adapter 6.0 Multiplatform Multilingual, two DVDs (LCD4-8536-00 and LCD4-8537-00)
- IBM SPSS Modeler V15.0 Collaboration and Deployment Services Adapter 5.0 Multiplatform Multilingual, two DVDs (LCD4-8538-00 and LCD4-8539-00)
This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

**Security, auditability, and control**

IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0 uses the security and auditability features of the system operating system. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

**Software Services**

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit  

http://www.ibm.com/software/sw-services/

**Ordering information**

**Ordering z/OS through the Internet**

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the US and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries website at  


**Charge metric**

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**Ordering example**

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected System z IPLA product, the applicable Value Units would be:

Translation from MSUs to Value Units

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When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

**Basic license**

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0

Program PID: 5655-AA8

Entitlement identifier | Description | License option/ Pricing metric |
------------------------|-------------|--------------------------------|
S017DN6                | IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0 | Basic OTC, per Value Unit |
Orderable supply ID    | Language    | Distribution medium |
S017DN5                | English     | 3590               |

Subscription and Support PID: 5655-AA7

Entitlement identifier | Description | License option/ Pricing metric |
------------------------|-------------|--------------------------------|
S0178LD                | IBM SPSS Modeler with Scoring Adapter for zEnterprise Software Subscription and Support | Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration |
Orderable supply ID    | Language    | Distribution medium |
S0178LC                | English     | Hardcopy pub |
On/Off CoD

IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0 is eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

Program name: IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0
Program PID: 5655-AA8

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Customized Offerings

Product deliverables are shipped only via CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the Shopz help information at

http://www.software.ibm.com/ShopzSeries

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options include:

- 3590
- 3592

Most products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered via CBPDO and ServerPac at general availability. Many products will also be orderable in a Product ServerPac without also having to order the z/OS operating system or subsystem.

Shopz and CFSW will determine the eligibility based on product requisite checking. For more details on the product ServerPac, visit the Help section on the Shopz website at


For additional information on the Product ServerPac option, refer to Software Announcement 212-272, dated July 31, 2012.

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.
Licensing
IBM International Program License Agreement including the License Information
document and Proof of Entitlement (PoE) govern your use of the program. PoEs are
required for all authorized use.

Agreement for Acquisition of Software Maintenance
The following agreement applies for Software Subscription and Support (Software
Maintenance) and does not require customer signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

These programs are licensed under the IBM Program License Agreement (IPLA) and
the associated Agreement for Acquisition of Software Maintenance, which provide
for support with ongoing access to releases and versions of the program. These
programs have a one-time license charge for use of the program and an annual
renewable charge for the enhanced support that includes telephone assistance
(voice support for defects during normal business hours), as well as access to
updates, releases, and versions of the program as long as support is in effect.

IBM System z Operational Support Services - SoftwareXcel is an option if you desire
added services.

License Information number
L-GLBC-99T7PM

The program’s License Information will be available for review on the IBM Software
License Agreement website


Limited warranty applies
Yes

Limited warranty
IBM warrants that when the program is used in the specified operating environment,
it will conform to its specifications. The warranty applies only to the unmodified
portion of the program. IBM does not warrant uninterrupted or error-free operation
of the program or that IBM will correct all program defects. You are responsible for
the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known
program defects, defect corrections, restrictions, and bypasses at no additional
charge. For further information, consult the IBM Software Support Handbook found at

http://www.ibm.com/support/handbook

IBM will maintain this information for at least one year after the original licensee
acquires the program (warranty period).

Program support
Enhanced support, called Subscription and Support, includes telephone assistance,
as well as access to updates, releases, and versions of the program as long as
support is in effect. You will be notified of discontinuance of support with 12 months’
notice.
Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM’s On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Other terms

Volume orders (IVO)

No

IBM International Passport Advantage Agreement

Passport Advantage applies

No

Software Subscription and Support applies

No. For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

http://www.ibm.com/services/sl/products

IBM Operational Support Services - SoftwareXcel

Yes

Other support

SoftwareXcel

System i® Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution customers.

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the product's own execution as reported to IBM in accordance with the requirements for reporting sub-capacity utilization for products.
On/Off Capacity on Demand (CoD)

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for IBM System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

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 comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

Information on charges is available at

http://www.ibm.com/support

Choose the option entitled Purchase/upgrade tools.

Program name: IBM SPSS Modeler with Scoring Adapter for zEnterprise V16.0
Program PID: 5655-AA8

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Subscription and Support PID: 5655-AA7

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Orderable supply ID: Language: Distribution medium
S0178LC                | English                                         | Hardcopy pub |

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large
enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

http://www.ibm.com/financing

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

Financing from IBM Global Financing helps clients preserve cash and credit lines, enables more technology acquisition within current budget limits, permits accelerated implementation of economically attractive new technologies, offers payment and term flexibility, and can help match client project costs to projected benefits. Financing is available worldwide for credit-qualified customers.

For more financing information, visit

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