IBM z/OS Workload Interaction Navigator V1.1 provides visibility into time sequenced operational data to enable automated recognition and correlation of multidomain anomalous activity

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At a glance

IBM$^{(R)}$ z/OS$^{(R)}$ Workload Interaction Navigator V1.1 is designed to:

- Provide visibility into the interdependencies and interactions across workloads
- Dynamically recognize anomalous behavior across one or two interval periods over multiple subsystems
- Enable subject matter experts to determine the cause and victim relationship across the IBM Z$^{(R)}$ software stack
- Improve workload availability by providing a method to validate that changes to the environment have the desired effect

Overview

As IBM Z continues to be an integral part in the journey to cloud, finding the source of problems is becoming increasingly complex. Much of the workload and its interdependencies running on IBM Z continue to be a "black box". As they react to operations issues, subject matter experts can become overwhelmed when looking for the relevant information that is buried in volumes of distracting data that flow from multiple systems and applications. Today, they need to manually parse, correlate, and attempt to understand the cause, location, and scope of a problem. This process can take too long to be effective.

IBM z/OS Workload Interaction Navigator V1.1 addresses this challenge by consuming and interpreting data from the IBM z/OS Workload Interaction Correlator infrastructure. The data generated is standardized and synchronized on short time intervals, allowing the IBM z/OS Workload Interaction Navigator to easily visualize workloads across processor core types, job size, and job priority. Through this data visualization and analysis, performance-based anomalous behavior can be detected. More important, the correlation of anomalies helps subject matter experts easily determine which activities are the root cause of the anomalous behavior versus activities showing anomalous behavior that are only symptomatic of the root issue.

Today's environment requires teams to be more agile and able to deliver new capability quickly without impacting key services. Historically, teams have been reluctant to embrace changes in their workloads because their impacts were often unknown or hard to predict. IBM z/OS Workload Interaction Navigator V1.1 helps teams adapt to rapidly changing business needs by comparing the same activities

across two time intervals. With this capability, users can verify that changes to the workload or software have had the desired effect on the rest of the system.

Key requirements

IBM z/OS Workload Interaction Navigator requires the following:

- IBM z/OS Workload Interaction Correlator
- IBM Z Distribution for Zowe™

For current detailed system requirements, including recommended APARs, see the IBM Software Product Compatibility Reports website.

Planned availability date

March 20, 2020

Description

Section 508 of the US Rehabilitation Act

The programs in this announcement are capable, as of March 20, 2020, when used in accordance with the associated IBM 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.

Value Unit-based pricing

Value Unit pricing for eligible IBM Z IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each IBM Z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each IBM Z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity** . Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three-digit code and referred to using the nomenclature VUExxx, where xxx is the three-digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each IBM Z IPLA program that you have acquired is referred to as **entitled license capacity** . If you wish to grow your entitled license capacity for an IBM Z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each IBM Z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs.
- Aggregate the MSUs across the enterprise.
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit.
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost.

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, see the IBM Z Software Pricing website.

Note that Value Units of a given program cannot be exchanged, interchanged, or aggregated with Value Units of another program.

To determine the required license capacity for the IBM Z IPLA program you selected, see the Terms and conditions section.

Reference information

For more information about IBM z/OS Workload Interaction Correlator, see Software Announcement 220-032, dated January 21, 2020.

For more information about IBM Z Operations Insight Suite or any of its components, go to the IBM Marketplace.

Program number

Program number	VRM	Program name
5698-WKN	1.1	IBM z/OS Workload Interaction Navigator

Program PID number	Subscription and Support PID number
5698-WKN	5698-WKS

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 IBMid).

BP Attachment for Announcement Letter 220-100

Offering Information

Product information is available on the IBM Offering Information website.

Publications

Documentation accompanies the product, and further publications are available on March 20, 2020 from IBM Knowledge Center.

Services

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of the lab-based software services team and the business consulting, project management, and infrastructure expertise of the IBM Global Services team. Also, IBM extends the reach of IBM Software Services through IBM Business Partners to provide an extensive portfolio of capabilities. IBM provides 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, contact your Lab Services Sales or Delivery Leader.

Technical information

Specified operating environment

Hardware requirements

IBM z/OS Workload Interaction Navigator V1.1 is supported on hardware that is supported by IBM z/OS V2.3, or later.

Software requirements

- IBM z/OS V2.3, or later
- IBM z/OS Workload Interaction Correlator (z/OS priced feature)
- IBM Z Distribution for Zowe V1.0.0, or later

IBM Support

IBM Support is your gateway to technical support tools and resources that are designed to help you save time and simplify support. IBM Support can help you find answers to questions, download fixes, troubleshoot, submit and track problem cases, and build skills. Learn and stay informed about the transformation of IBM Support, including new tools, new processes, and new capabilities, by going to the IBM Support Insider.

Planning information

Packaging

The programs in this announcement are distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- Publications (see the Publications section)

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, which 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.

Direct client support

Direct client 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 go to the IBM Support website.

Security, auditability, and control

IBM z/OS Workload Interaction Navigator V1.1 uses the security and auditability features of the operating system under which it is running.

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

Ordering information

Consult your IBM representative.

Value Unit Exhibit VUE007

	MSUs minimum	MSUs maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.20

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 IBM Z IPLA product, the applicable Value Units would be:

Tier	MSUs	Multiplied by Value Units per MSU	Equal Value Units
Base	3	1.00	3.00
Tier A	42	.45	18.90
Tier B	130	.36	46.80
Tier C	140	.27	37.80
Tier D	1,185	.20	237.00
Total	1,500		343.50

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

Ordering z/OS through the internet

Shopz 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). For more details and availability, go to the Shopz website.

Charge metric

The charge metric for this licensed product can be found in the following License Information document:

Program identifier	License Information document title	License Information document number
5698-WKN	IBM z/OS Workload Interaction Navigator	L-LESS-BKMNKC

Select your language of choice and scroll down to the "Charge Metrics" section. Follow-on releases, if any, may have updated terms. See the License Information documents website for more information.

Basic license

Translation from MSUs to Value Units

	MSUs	Value Units/MSU
Base	1-3	3.0
Tier A	4-45	18.90
Tier B	46-175	46.80
Tier C	176-315	37.80
Tier D	316 or greater	237.0

To order, specify the program ID number and the appropriate license or charge option. To suppress shipment of media, select the license-only option in CFSW.

Program name: IBM z/OS Workload Interaction Navigator, V1.1

Program ID: 5698-WKN

Entitlement identifier	Description	License option/Pricing metric
S018H2L	IBM z/OS Workload Interaction Navigator	MultiVersion Measurement No Charge Value Units
		On Off Capacity on Demand Temporary Use Charge MSU-DAY(s)
		Use-Based License One-Time Charge Value Units

Orderable supply ID	Language
S018H2M	Multilingual

IBM recommends internet delivery. However, if you still require physical media, you can choose DVD.

Subscription and Support Program ID: IBM z/OS Workload Interaction Navigator S&S (5698-WKS)

Entitlement identifier	Description	License option/Pricing metric
S018H2P	IBM z/OS Workload Interaction Navigator S&S	Decline Subscription and Support No Charge Value Units
		MultiVersion Measurement S&S No Charge Value Units
		SW Subscription and Support Annual Support Charge Value Units
		SW Subscription and Support Monthly Support Charge Value Units
		SW Subscription and Support Registration (minus Supply right) No Charge Per MSU

Orderable supply ID	Language
S018H2R	Multilingual

Subscription and Support

To receive voice technical support by telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program ID referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these programs with a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance. This offering:

- Includes and extends the support services provided in the base support to include technical support by telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new programs.

When Subscription and Support is ordered, the charges will automatically renew annually unless canceled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA IBM Z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order **both** the license for the program **and** the support for the selected programs at the same Value Unit quantities.

Customized Offerings

Product deliverables are shipped only through CBPDO and ServerPac. These customized offerings are offered for internet delivery. For more details on internet delivery, go to the "Help" section on the Shopz website.

IBM recommends internet delivery. However, if you still require physical media, you can choose DVD.

Many products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered through CBPDO and ServerPac on the planned availability date. 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, go to the "Help" section on the Shopz website.

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

- CBPDO shipments will begin one week after the planned availability date.
- ServerPac shipments will begin four weeks after the planned availability date.

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[R] Agreement, and 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.

Software Maintenance

The following agreement applies for Software Subscription and Support (Software Maintenance) and does not require client signatures:

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

These programs are licensed under the IBM International 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 Z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information number

The following License Information document applies to the offering in this announcement:

Program identifier	License Information document title	License Information document number
5698-WKN	IBM Z Workload Interaction Navigator	L-LESS-BKMNKC

Follow-on releases, if any, may have updated terms. See the License Information documents website for more information.

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, see the IBM Support Guide.

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

Program technical support

Technical support of a program product version or release will be available for a minimum of three years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect.

This technical support allows you to obtain assistance (by telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, through an announcement letter, of discontinuance of support with 12 months' notice.

If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

For additional information on the IBM Software Support Lifecycle Policy, see the IBM Software Support Lifecycle Policy website.

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.

Volume orders (IVO)

No.

Passport Advantage applies

No.

Software Subscription and Support applies

Yes. During the Software Subscription and Support period, for the unmodified portion of a program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

- Defect correction information, a restriction, or a bypass.
- Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements and new versions and releases to the program and documentation.
- Technical assistance: A reasonable amount of remote assistance by telephone or electronically to address suspected program defects. Technical assistance is available from the IBM support center in the organization's geography.

Additional details regarding Technical Assistance, which includes IBM contact information, are provided in the IBM Support Guide.

Software Subscription and Support does not include assistance for:

- The design and development of applications.
- Your use of programs in other than their specified operating environment.
- Failures caused by products for which IBM is not responsible under the IBM Agreement for Acquisition of Software Maintenance.

Software Subscription and Support is provided only if the program is within its support timeframe as specified in the Software Support Lifecycle policy for the program.

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, go to the Supported product list website.

IBM Operational Support Services - SoftwareXcel

No.

Variable charges apply

No.

Educational allowance available

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

Multi-Version Measurement

Multi-Version Measurement (MVM) replaces the previously announced Migration Grace Period time limit of six months and allows unlimited time for clients to run more than one eligible version of a software program. Clients may run multiple versions of a program simultaneously for an unlimited duration during a program version upgrade. Clients may also choose to run multiple versions of a program simultaneously for an unlimited duration in a production environment. MVM does not extend support dates for programs withdrawn from service.

For more information about MVM, including requirements for qualification, see the MVM web page. For a list of eligible programs, see the IPLA Execution-Based web page.

Sub-capacity terms and conditions

For each IBM Z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

• The IBM Z IPLA program you select.

• The applicable Value Unit Exhibit.

• The applicable terms.

• Whether your current mainframes are full capacity or sub-capacity.

For more information on the Value Unit Exhibit for the IBM Z IPLA program you selected, see the Ordering information section.

Program number	Program name	Terms
5698-WKN	IBM z/OS Workload Interaction Navigator	z/OS-based

Full-capacity mainframes

In cases where full capacity is applicable, the following terms apply.

Execution-based, z/OS-based, full machine-based: The required capacity of an IBM Z IPLA program with these terms equals the MSU-rated capacity of the machines where the IBM Z IPLA program executes.

For more information on mainframe MSU-rated capacities, go to the IBM Z software pricing resources webpage.

Reference-based: The required license capacity of a IBM Z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Sub-capacity mainframes

In cases where sub-capacity is applicable, the following terms apply.

Execution-based: The required capacity of an IBM Z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the IBM Z IPLA program executes.

z/OS-based: The required license capacity of an IBM Z IPLA program with these terms equals the license capacity of z/OS on the machines where the IBM Z IPLA program executes.

Reference-based: The required license capacity of an IBM Z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Full machine-based: The required license capacity of an IBM Z IPLA program with full machine-based terms equals the MSU-rated capacity of the machines where the IBM Z IPLA program executes.

For more information on mainframe MSU-rated capacities, see the IBM z Systems[R] Machines Exhibit, Z125-3901, or see the Exhibits section on the IBM Z software pricing resources webpage.

IBM Z IPLA sub-capacity programs with reference-based terms add value to the parent program across the environment, regardless of where in the environment the IBM Z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex[R]. You may have one or more different environments across the enterprise. To determine the required license capacity for each IBM Z IPLA program with referenced-based terms, each environment should be assessed separately.

When an IBM Z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the IBM Z IPLA program must equal the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one where MLC pricing is aggregated across the sysplex.

Sub-capacity eligibility

To be eligible for sub-capacity charging on select IBM Z IPLA programs, you must first implement and comply with all terms of one of the following:

- Sub-capacity Workload License Charges (WLC)
- Sub-capacity Entry Workload License Charges (EWLC)
- Sub-capacity Advanced Workload License Charges (AWLC)
- Sub-capacity Advanced Entry Workload License Charges (AEWLC)

To implement sub-capacity WLC, EWLC, AWLC, or AEWLC, a machine must be an IBM Z (or equivalent). On that machine:

- All instances of the OS/390[R] operating system must be migrated to the z/OS operating system.
- Any licenses for the OS/390 operating system must be discontinued.
- All instances of the z/OS operating systems must be running in z/Architecture[R] (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, go to the IBM Z software pricing tools webpage.

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement - Attachment for z Systems[R] Workload License Charges(Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for EWLC, TWLC, zELC, and z/OS.e License Charges(Z125-6587).

You must comply with all of the terms of the AWLC or AEWLC offering, whichever is applicable:

- The complete terms and conditions for AWLC are defined in the IBM Customer Agreement - Attachment for IBM System z$^{(R)}$ Advanced Workload License Charges (Z125-8538).
- The complete terms and conditions for AEWLC are defined in the IBM Customer Agreement - Attachment for IBM System z Advanced Entry Workload License Charges (Z125-8755).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract -IBM Amendment for IBM System z Programs Sub-Capacity Pricing(Z125-6929).Once the amendment is signed, the terms in the amendment replace any and all previous IBM Z IPLA sub-capacity terms and conditions.

Statement of good security practices

IT system security involves protecting systems and information through intrusion 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 regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

Important: IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

Prices

Registered external clients and IBM Business Partners can access IBMLink to view pricing information.

Specify "Price type," "Search type," and "Search value," then click "Search."

Note: Enter program number in the "Search value."

You can also contact your local IBM representative or IBM Business Partner for the applicable charges.

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified clients 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 client segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or go to the IBM Global Financing website for more information.

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accelerate implementation of economically attractive new technologies, offers payment and term flexibility, and can help match project costs to projected benefits. Financing is available worldwide for credit-qualified clients.

Order now

To order, contact the IBM Digital Sales Center, your local IBM representative, or your IBM Business Partner. To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968). For more information, contact the IBM Digital Sales Center.

Phone: 800-IBM-CALL (426-2255)

Fax: 800-2IBM-FAX (242-6329)

For IBM representative: askibm@ca. ibm.com[R]

For IBM Business Partner: pwcs@us. ibm.com

IBM Digital Sales Offices
1177 S Belt Line Rd
Coppell, TX 75019-4642, US

The IBM Digital Sales Center, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

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