IBM Systems Director for Linux on System z, V6.2 gives IT professionals the tools they need to better manage their virtual and physical resources

Table of contents

1 Overview 6 Publications
2 Key prerequisites 6 Technical information
2 Planned availability date 9 Ordering information
2 Description 10 Terms and conditions
4 Product positioning 14 Prices
5 Program number 14 Announcement countries

At a glance

New features in IBM® Systems Director V6.2:

- Designed to improve the performance and scalability of IBM Systems Director in managing large environments
- Simplifies the end-to-end installation and update processes and improves the usability of the Discovery manager
- Extends platform support to discover and manage IPv6-capable devices
- Extends hierarchical management of multiple IBM Systems Director Servers from a single IBM Systems Director Server
- Extends data center integration using Representational State Transfer (REST) interfaces

Overview

IBM Systems Director V6.2 and its plug-ins provide a unified family of platform management offerings with a common toolset for managing physical and virtual resources together -- servers, storage, and networks. IBM Systems Director is designed around a modular, industry standards-based approach that leverages existing client investments in IBM platform management offerings and provides seamless integration with IBM Integrated Service Management offerings from Tivoli®.

IBM Systems Director, along with advanced managers, is designed to help improve IT personnel productivity by easily finding and identifying systems on the network, determining if those systems are working properly, and configuring and deploying new systems.

The family of IBM Systems Director products helps to manage multiple IBM systems as a single entity which aids in reducing virtualization complexity. This platform management family can help IT personnel address important IT challenges, such as keeping system firmware and drivers current, managing IT energy usage, and improving system availability.

New features and functions in IBM Systems Director V6.2:

- Improves scalability with a 64-bit IBM Systems Director Server allowing additional server, storage, and network resources to be managed
- Discovers and manages IPv6-capable devices to participate in larger networks
• Enhances the IBM Systems Director installer for IBM Systems Director Server, Common Agent, and Platform Agent to reduce many manual steps that were previously required
• Simplifies the update process for IBM Systems Director components by providing a single-button update capability
• Simplifies discovery through a single interface to discover target systems, exclude systems, and use predefined and user-created discovery profiles
• Enables multiple IBM Systems Director Servers and their associated resources to be managed by a single IBM Systems Director Server providing a unified view of all management servers
• Provides Representational State Transfer (REST) interfaces to help integrate IBM Systems Director functions with other data center management solutions and Tivoli service management solutions
• Provides the capability to launch some other products from the IBM Systems Director Web interface

IBM Systems Director helps bring it all together -- designed to manage the physical and virtual infrastructures, improve deployment of resources, and take on many of the more redundant time-consuming management tasks in the data center.

Key prerequisites

Refer to the Hardware requirements and Software requirements sections.

Planned availability date

• Web download: On or before June 25, 2010
• ESW: June 25, 2010

Description

IBM Systems Director V6.2 is a platform-management foundation that streamlines the way you manage physical and virtual systems across a heterogeneous environment. By using industry standards, IBM Systems Director supports multiple operating systems and virtualization technologies across IBM platforms and non-IBM x86 platforms. IBM Systems Director V6.2 is the single-point-of-control for managing data centers. It integrates IBM's virtualization capabilities to provide new and radically improved ways to simplify the management of physical and virtual platform resources.

A key feature of IBM Systems Director is a consistent user interface focused on driving common tasks. IBM Systems Director provides a unified view of the total IT environment, including servers, storage, and networks. This unified view allows end-user tasks to be driven with a single tool. IBM Systems Director performs life cycle administration of physical, virtual, storage, and network-based resources in a data center from a single converged Web-based user interface, command-line interface, or remotely using the Representational State Transfer (REST) interface.

IBM Systems Director V6.2 can reduce the total cost of ownership and decrease management costs by eliminating the need to maintain multiple tools, and improving the utilization of existing IT resources. With IBM Systems Director V6.2, you can optimize the utilization of the heterogeneous hardware, including IBM System z®, IBM Power Systems™, IBM System x®, IBM BladeCenter®, IBM Storage Systems and select non-IBM servers (x86) and systems software, such as AIX®, IBM i, Linux® on IBM platforms, Microsoft® Windows®, and Linux on x86 platforms, as well as z/VM®, VMware, and PowerVM™ virtualization technologies.

IBM Systems Director V6.2 delivers a suite of management tasks for the end-to-end platform management, including discovery, inventory, configuration, system health and status, resource monitoring, updates, event notification, and
IBM Systems Director V6.2 offers the following new features and enhancements:

- **Simplifies the overall usability, including discovery, installation, the update process, and the Web interface:**
  - Simplifies discovery through a single interface to more easily discover target systems, exclude systems, and use predefined and user-created discovery profiles.
  - Provides a full installer refresh and migration from IBM System Director V6.1 and new installation images for Platform Agent, Common Agent, and IBM Systems Director Server across the different platforms.
  - Streamlines initial V6.2 management server installation with future IBM System Director V6.2 patches and updates.
  - Simplifies the update process by providing a single-button updates capability.
  - Adds the ability to put managed endpoint (MEP) resource in maintenance mode.
  - Maintains a summary status view that is always visible on the web console, indicating the number of systems that are having problems and/or out of compliance.
  - Adds the "Authorize User Group" and "Remove User Group" buttons to the user interface.
  - Streamlines the legacy Launch in Context (LiC) task to the Web browser by removing all IBM Director V5.x legacy UIs and dependence on "mini-console" infrastructure and redesigns the legacy UIs to match the IBM Systems Director Web interface.
  - Helps improve security with firewall friendliness and auditing compliance.

- **Enhances the data center integration with Tivoli and other third-party management solutions:**
  - Provides the capability to launch some other products from the IBM Systems Director Web interface.
  - Updates the IBM Systems Director Software Development Kit (SDK) to document and externalize the REST interface based on JAX-RS specifications and the asynchronous notification framework based on JMS specifications.
  - Enhances integration with IBM Tivoli products to better manage and troubleshoot by launching Systems Director product tasks from the IBM Tivoli Enterprise Portal, thus eliminating the need to switch consoles.
  - Enhances the auditing and security components to verify and setup LDAP configuration from the Web interface.

- **Supports new platform and operating system updates:**
  - Discovers and unlocks endpoints using IPv6 or IPv4 by allowing the IBM Systems Director V6.2 management server to be installed and run on Linux on System z that has both IPv6 and IPv4 addresses configured. IBM Systems Director V6.2 Common Agent and Platform Agent can only be run on Linux on System z endpoints with IPv4 addresses.

- **Provides availability, performance, and scalability enhancements:**
  - Increases the performance and scalability for managing large environments with a new 64-bit Systems Director management server, replacing the 31-bit management server.
  - Improves the performance of accessing the IBM Systems Director database using Java™ Persistence Query Language (JPQL) and a Java Persistence API (JPA).
  - Improves the scalability by providing hierarchical management of multiple IBM Systems Director Servers and their associated resources from a single IBM Systems Director Server.
Accessibility by people with disabilities

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


Product positioning

Virtualization has transformed enterprise-class IT. Virtualized solutions unlock technological resources such as processing power and storage from specific hardware, and redelivers them so that you can allocate them in real time to achieve business goals.

New virtualized infrastructures, however, require new management tools. Older tools generally lack the modern feature set and focus required to achieve the highest performance and most flexible response from virtualized solutions. As a result, the overall business value these outdated tools generate can be suboptimal. Furthermore, when different tools are used to manage different virtual technologies, management complexity can increase. An alternative, simplified solution would empower administrators to manage both virtual servers and virtual storage from a single source.

With IBM Systems Director V6.2, the underlying technical differences across different hardware and software virtual solutions can be viewed, allowing administrators to manage the overall virtualized infrastructure as one. Furthermore, through its next-generation feature set, extensible via a plug-in architecture, Systems Director V6.2 can help you accomplish more than ever before.

IBM Systems Director V6.2 is designed to help you achieve the full potential of virtualization: simplified management, a faster time-to-solution in the event of a problem, a tailored fit between features, functions, and the specific needs of your organization, and an accelerated, more flexible response to changing business goals and strategies.

The cost of managing the IT infrastructure has become the largest and fastest-growing component of overall IT spending for many organizations. Virtualization helps address this cost through the consolidation of physical resources. However, it also adds complexity by creating a sharp increase in the number of managed virtual resources. IT professionals are seeking more advanced capabilities and tools for managing both their physical and virtual systems across multiple architectures and environments. IBM Systems Director V6.2 is a significant new release for platform management. It gives IT professionals the tools they need to better coordinate and manage their virtual and physical resources in the new enterprise data center.

Systems Director also complements and integrates with higher level enterprise management software such as Tivoli. Systems Director, a hardware platform management solution, and Tivoli Software are complementary and can be used either individually or together to deliver superior end-to-end IT management.

Systems Director’s focus is on hardware platform management, health, and configuration to help deliver maximum system availability. It consists of a set of tools that delivers granular hardware management information that can be passed up and integrated into Tivoli products, putting it into an enterprise and business services context. The IBM Tivoli portfolio of products enables a broader set of management capabilities than Systems Director and is more scalable for enterprise-wide operations. Tivoli products also go beyond hardware management and deliver advanced, automated tools for managing software applications, networks, and storage.
Reference information


Availability of national languages

IBM Systems Director V6.2 includes support for the following languages:

<table>
<thead>
<tr>
<th>Description</th>
<th>Availability Date</th>
<th>Language</th>
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<tr>
<td>IBM Systems Director</td>
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<td>V6.2</td>
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<td></td>
<td>June 25, 2010</td>
<td>Chinese (traditional)</td>
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Program number

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<td>6.2</td>
<td>IBM Systems Director for Linux on System z</td>
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<td>5648-DRS</td>
<td>1.1</td>
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Subscription and Support

Program information number

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<th>Program PID number</th>
<th>Subscription and Support PID Number</th>
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<tbody>
<tr>
<td>5648-DRZ</td>
<td>5648-DRS</td>
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</tbody>
</table>

IBM Systems Director V6.2 Information Center Availability

The IBM Systems Director V6.2 Information Center Web site at

http://publib.boulder.ibm.com/infocenter/director/v6r2x/index.jsp

is planned to be updated with information pertinent to IBM Systems Director V6.2 and its associated plug-ins on or before June 25, 2010.

Offering Information

Product information is available via the Offering Information Web site

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

The following publication is initially shipped with the product on a DVD in U.S. English:

- IBM Systems Director for Linux on System z Planning, Installation and Configuration Guide

Documentation is also available from the IBM Systems Director Information Center

http://publib.boulder.ibm.com/infocenter/director/v6r2x/index.jsp

Printable documents

- IBM Systems Director Hardware and Software Support Guide
- IBM Systems Director Systems Management Guide
- IBM Systems Director Troubleshooting Guide
- IBM Systems Director Commands Reference
- IBM Systems Director Events Reference
- IBM Systems Director for Linux on System z Planning, Installation and Configuration Guide
- IBM Systems Director Hardware Command Line User's Guide
- IBM Systems Director Upward Integration Module for HP OpenView Network Node Manager Installation and User's Guide
- IBM Systems Director Upward Integration Module for Tivoli NetView® Installation and User's Guide
- IBM Systems Director Upward Integration Module for Tivoli Management Framework Installation and User's Guide

These publications can be downloaded and viewed from the IBM Director Resources and Documentation Web site at

http://www.ibm.com/systems/software/director/resources.html

Technical information

Specified operating environment

Hardware requirements
IBM Systems Director for Linux on System z, V6.2 Server will operate on:

- IBM System z10® Enterprise Class
- IBM System z10 Business Class
- IBM System z9® Enterprise Class
- IBM System z9 Business Class

Although the IBM Systems Director Server is supported on just System z10 and System z9 servers, IBM Systems Director Agents support all IBM System z servers including all IBM zSeries® servers.

Refer to the Preventive Service Planning (PSP) bucket for the minimum MCLs and any required updates for your particular server.

More detailed hardware requirements are available from documents accompanying the program and from the IBM Systems Director V6.2 Information Center at

http://publib.boulder.ibm.com/infocenter/director/v6r2x/topic/com.ibm.director.plan.helps.doc/fqm0_r_hardware_requirements.html
Software requirements

- One of the following operating systems:
  - Red Hat Enterprise Linux AS, Version 4 for IBM System z
  - Red Hat Enterprise Linux AS, Version 5 for IBM System z
  - SUSE Linux Enterprise Server 9 for IBM System z with Service Pack 4, and earlier
  - SUSE Linux Enterprise Server 10 for IBM System z with Service Pack 3, and earlier

More detailed software requirements are available from documents accompanying the program and from the IBM Systems Director V6.2 Information Center at http://publib.boulder.ibm.com/infocenter/director/v6r2x/topic/com.ibm.director.plan.helps.doc/fqm0_r_operating_system_and_software_requirements.html

When preparing to install IBM Systems Director, consider that the Platform Agent, V6.2 and IBM Director Core Services, V5.20.3 are the same agent.

Operating systems supported by IBM Systems Director V6.2

IBM Systems Director V6.2 provides support for many operating systems. However, support varies depending on the selected hardware and IBM Systems Director component.

<table>
<thead>
<tr>
<th>IBM z/VM</th>
<th>IBM Systems Access</th>
<th>Manageability Access</th>
<th>Point Agent</th>
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<tr>
<td>Operating system</td>
<td>Director Common</td>
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<td>Point Agent</td>
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<td>versions for</td>
<td>Server Agent</td>
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<td>(see note 1)</td>
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<td>31-bit systems</td>
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<tr>
<td>Red Hat Enterprise</td>
<td>X</td>
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<td>X</td>
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<tr>
<td>Linux AS, version 4.0, for IBM System z</td>
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<tr>
<td>versions for</td>
<td>Server Agent</td>
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<td>(see note 1)</td>
</tr>
<tr>
<td>64-bit systems</td>
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<td>(see note 2)</td>
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<td></td>
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</tr>
</tbody>
</table>

| Red Hat Enterprise | X                  | X                    | X |
| Linux AS, version 5.0, for IBM System z |

| SUSE Linux Enterprise Server 9 for IBM System z |
| SUSE Linux Enterprise Server 10 for IBM System z |

Notes:

1. The IBM z/VM Manageability Access Point Agent is used by IBM Systems Director V6.2 to monitor the virtual machines and associated resources known as a z/VM system. The agent must be running in a virtual machine within the IBM z/VM, V5.4 or V6.1 system that is to be monitored.

2. 64-bit support is by way of 31-bit compatibility mode only.
3. IBM z/VM Manageability Access Point Agent requires Red Hat Enterprise Linux AP, version 5.0, for IBM System z, Update 3, or later.
4. IBM z/VM Manageability Access Point Agent requires SUSE Linux Enterprise Server 9 for IBM System z, Service Pack 4, or later.
5. IBM z/VM Manageability Access Point Agent requires SUSE Linux Enterprise Server 10 for IBM System z, Service Pack 2, or later.

Further information on the program's specifications and specified operating environment 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

Customer responsibilities

Detailed planning information for IBM Systems Director is available from the Web in the IBM Systems Director Information Center at

   http://publib.boulder.ibm.com/infocenter/director/v6r2x/index.jsp

You can also access an interactive, dynamic planning advisor for use when building your IBM Systems Director solution.

Direct customer support: For technical support or assistance, contact your IBM representative or visit

   http://www.ibm.com/support

Packaging

The IBM Systems Director for Linux on System z, V6.2 package contains one DVD that includes product installation documentation and files.

Your Proof of Entitlement (PoE) for this program is a copy of a paid sales receipt, purchase order, invoice, or other sales record from IBM or its authorized reseller from whom you acquired the program, provided that it states the license charge unit (the characteristics of intended use of the program; for example, number of processors, number of users) and quantity acquired.

Information about how you may obtain program services will be provided by the party (either IBM or its authorized reseller) from whom you acquired the program.

IBM Systems Director for Linux on System z, V6.2 is available on or before June 25, 2010, for electronic download from


This program, when downloaded from a Web site, contains the applicable IBM license agreement and License Information (LI), if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and LI will be stored in a directory such as LICENSE.TXT.

IBM Systems Director V6.2 supports the following languages:

- Brazilian Portuguese
- Chinese (simplified)
- Chinese (traditional)
- English
- French
- German
- Italian
Security, auditability, and control

IBM Systems Director V6.2 installed on systems with Linux uses the security and the auditability features of the Linux 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.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

Ordering information

Consult your IBM representative.

Charge metric

<table>
<thead>
<tr>
<th>Program name</th>
<th>PID number</th>
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<tr>
<td>IBM Systems Director for Linux on System z, V6.2</td>
<td>5648-DRZ</td>
<td>Per processor</td>
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<tr>
<td>IBM Systems Director for Linux on System z Subscription and Support, V1.1</td>
<td>5648-DRS</td>
<td>Per processor</td>
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Processor

Processor is a unit of measure by which the program can be licensed. Processor (commonly called a processor core or CPU) is a functional unit within a computing device that interprets and executes instructions. A processor consists of at least an instruction control unit and one or more arithmetic or logic unit. With multicore technology each core is considered a processor.

A Proof of Entitlement (PoE) must be acquired for all activated processors available for use for the server. In addition to the entitlements required for the program directly, licensee must obtain entitlements for this program sufficient to cover the processor cores managed by the program.

For IBM System z machines, the authorization required for the program is based on the following:

1. When the program is installed on or managing engines with the Integrated Facility for Linux (IFL) feature, You must acquire an authorization for each activated engine with the IFL feature on that machine; and
2. When the program is installed on or managing general purpose engines, You must acquire an authorization for each activated general purpose engine on that machine.

Order z/VM SDO through the Internet

ShopzSeries provides an easy way to plan and order System z software upgrades, including z/VM. Using ShopzSeries, customers can quickly generate orders for z/VM SDOs. Additionally, ShopzSeries will ensure your order is technically correct (that is, ensures any corequisite or prerequisite or incompatibility conditions are resolved to ensure timely order placement and processing). ShopzSeries is available in the...
United States 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 Web site at

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

The z/VM V5.4 and V6.1 base operating system and SDO licensed products are eligible for Internet delivery using the ShopzSeries Web site.

**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 Systems Director for Linux on System z, V6.2
Program PID: 5648-DRZ

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Orderable supply ID Language Distribution medium
S015488                US English DVD

Subscription and Support PID: 5648-DRS

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<td>Basic MSC, SW Subscription and Support, No charge, decline SW S&amp;S</td>
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Orderable supply ID Language Distribution medium
S0156KZ                US English Hardcopy pub

**On/Off CoD**

IBM Systems Director for Linux on System z, V6.2 is eligible for On/Off CoD with a temporary use charge calculated based on per-processor per-day usage.

Program name IBM Systems Director for Linux on System z, V6.2
Program PID 5648-DRZ

<table>
<thead>
<tr>
<th>Entitlement identifier</th>
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<td>IBM Systems Director Basic OTC, V6.2</td>
<td>Per Processor-day TUC</td>
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**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.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

**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 form number**

GC52-1314

The program's License Information will be available for review on the IBM Software License Agreement Web site


IBM Systems Director contains management server and agent components, and you are authorized to use the components on IBM systems. You are not authorized to run the IBM Systems Director Server on non-IBM systems.

You are authorized to manage non-IBM systems that run Platform Agent and non-IBM systems without an agent. Refer to the Hardware requirements and Software requirements sections for more information about supported systems.

**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


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.

**Authorization for use on home/portable computer**
You may not copy and use this program on another computer without paying additional license fees.

**Volume orders (IVO)**
No

**IBM International Passport Advantage Agreement**

**Passport Advantage applies**
No

**Usage restriction**
Yes.

IBM Systems Director contains management server and agent components, and you are authorized to use the components on IBM systems. You are not authorized to run IBM Systems Director Server on non-IBM x86 systems.

You are authorized to manage non-IBM x86 systems that run Platform Agent and non-IBM x86 systems without an agent. Refer to Hardware requirements and Software requirements sections for more information about supported systems.

You are authorized to use management server and agent components only on IBM systems. Notwithstanding the foregoing, the program includes a license for up to 20 installations of the Agent component on non-IBM x86 systems. These 20 licenses for non-IBM x86 systems are not transferable and cannot be combined or aggregated. For example, if you buy two IBM machines and install the program on only one of them, you are entitled to install the Agent component on only 20 non-IBM x86 systems. If you install the program on both IBM machines, your entitlement is limited to managing 20 non-IBM x86 systems. To install additional Agent components on non-IBM x86 systems, you must obtain additional Agent component licenses from IBM. You can purchase licenses from the Ready to Buy Web Page at


**Software Subscription and Support (Software Maintenance) applies**
Yes.

Subscription and Support (also referred to as Software Maintenance) annual support charges will be automatically added to your order. The charges will renew
automatically annually unless canceled by the customer. If you do not desire the Subscription and Support license for IBM Systems Director for Linux on System z, V6.2, you must take specific action to decline this support.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your IBM Software Support Handbook at

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