IBM Tivoli Netcool Performance Manager V1.3.2 enhancements

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At a glance

IBM® Tivoli® Netcool® Performance Manager (TNPM) offers:

- Support and reporting enhancements
- Updated licensing model
- IBM Tivoli Netcool Performance Manager Wireless Development Tool Kit

For ordering, contact Your IBM representative or an IBM Business Partner. For more information contact the Americas Call Centers at 800-IBM-CALL (426-2255).

Reference: SE001

Overview

IBM Tivoli Netcool Performance Manager (TNPM) V1.3.2 is a solution which offers Communication Service Providers (CSPs) and large enterprises a performance management solution to address the needs and challenges of both wireline and wireless networks.

- TNPM V1.3.2 enhancements:
  - Support of added features
  - Tivoli Common Reporting (TCR) updates
  - Wireline Operations Console
- Resource Value Unit (RVU) licensing definition updates
- Tivoli Netcool Performance Manager Wireless Development Tool Kit that helps you take control of your multivendor network performance management needs

Planned availability date

April 11, 2012

Description

IBM Tivoli Netcool Performance Manager (TNPM) V1.3.2 contains the following enhancements:

- Support of Oracle 11g
• Resource Metric View for wireless data
• Cold standby solution for wireless deployments
• 30 minute timezone support for wireless data
• Support for IBM Tivoli Integrated Portal V2.2
• Support for IBM Tivoli Common Reporting (TCR) V2.1.1
• Enhanced TCR enablement and reporting through IBM Cognos® tooling enhancements
• Implementation of enhancements to Operations Console

Licensing of TNPM is now partly based on Install. An Install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each Install of the program.

The Resource Value Unit licensing definitions are enhanced.

IBM Tivoli Netcool Performance Manager Wireless Development Tool Kit, a separately orderable option, lets you develop customized multivendor technology packs. Tivoli Netcool Performance Manager Wireless Development Tool Kit helps you take control of your multivendor network performance management needs. You have a streamlined no code writing approach to develop support for new technologies and to upgrade or extend support for existing technologies.

Tivoli Netcool Performance Manager Wireless Development Tool Kit is available with training and documentation.

Reference information

Refer to:
• Software Announcement 210-282, dated September 07, 2010
• Software Announcement 210-097, dated April 20, 2010

Program number

<table>
<thead>
<tr>
<th>Program number</th>
<th>VRM</th>
<th>Program name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5724-W86</td>
<td>1.3.2</td>
<td>IBM Tivoli Netcool Performance Manager</td>
</tr>
</tbody>
</table>

Publications

No publications are shipped with this program.

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.
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/

Licensing metric definitions

Install

Install is a unit of measure by which the program can be licensed. An Install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each Install of the program.

Resource Value Unit (RVU)

RVU is a unit of measure by which the program can be licensed. RVU Proofs of Entitlement (PoEs) are based on the number of units of a specific resource used or managed by the program. Licensee must obtain sufficient entitlements for the number of RVUs required for licensee's environment for the specific resources as specified in the table below. RVU entitlements are specific to the program and the type of resource and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program or resource.

Instead of the entitlements required for the resources used by the program directly, licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.

Cumulative entitlements

Install and RVU entitlements are not alternative means for licensing the program. Licensee must obtain sufficient Install entitlements to cover the number of installations of the program as well as the appropriate number of RVU entitlements for the relevant resources. For the sake of clarity, each Install entitlement authorizes the installation of the program for one wireline and one wireless database.

RVU licensing

The resource for the purpose of RVU calculation is the total point value of all entities managed by the program. An entity is an object on the network, to be managed by the program. The objects are categorized as:

- Subscriber: A subscriber is a single user account of a service provider. Subscribers consume services that include but are not limited to DSL, Cable, and Set Top Box Cable. Point value per Entity: 1
- Carrier VOIP phones: A Carrier VOIP phone is a device enabled for voice over IP based communication, which a carrier service provider has enabled on its network. Point value per Entity: 1
- Enterprise VOIP Phones: An Enterprise VOIP phone is a device enabled for voice over IP based communication, which an enterprise customer has enabled on its network. Point value per Entity: 3
- Wireless Cells and Sectors: A Wireless Cell is a geographical area covered by a cellular network transmitter. A Wireless Cell can be divided into one or more
Wireless Sectors. Customers need to count the total of all non subdivided wireless cells and all wireless sectors in subdivided wireless cells. Point value per Entity: 70

- Customer premise equipment (CPE): CPE is router and server equipment, which provide the network and server needs of a single local area network. Point value per Entity: 70

- Branch routers, branch switches, and probes: Branch routers or switches located at the edge of a provider network and which support connections to many CPEs. The primary function of this equipment is to provide routing, filtering, Wide Area Network (WAN) access, and network policy management. Probes are network test and measurement devices. Point value per Entity: 250

- WAN routers: WAN routers are routers enabled for WAN services, including but not limited to traffic aggregation, Internet Protocol/MultiProtocol Label Switching (IP/MPLS) services and Asynchronous Transfer Mode (ATM)/Frame Relay transport services. IP/MPLS is a mechanism used in IP networks that directs data from one network node to the next based on short path labels. ATM is a standard switching technique designed to unify telecommunication and computer networks. Frame Relay is a protocol standard for Local Area Networking (LAN) Internet-working, which provides a fast and efficient method of transmitting information from a user device to LAN bridges and routers. Point value per Entity: 500

- Core routers, core switches, IMS™ nodes: Core routers and core switches are deployed in carrier networks transporting data in the backbone network. Integrated Multimedia Services (IMS) nodes are a key component of a network offering IP based mobile and fixed applications. Point value per Entity: 5000

**RVU conversion table**

- From 1 to 60,000 Resources, 0.05 RVUs per Resource
- From 60,001 to 300,000 Resources, 3,000 RVUs plus 0.045 RVUs per Resource above 60,000
- From 300,001 to 600,000 Resources, 13,800 RVUs plus 0.04 RVUs per Resource above 300,000
- Form 600,001 to 1,200,000 Resources, 25,800 RVUs plus 0.035 RVUs per Resource above 600,000
- From 1,200,001 to 1,800,000 Resources, 46,800 RVUs plus 0.03 RVUs per Resource above 1,200,000
- From 1,800,001 to 2,400,000 Resources, 64,800 RVUs plus 0.025 RVUs per Resource above 1,800,000
- From 2,400,001 to 3,600,000 Resources, 79,800 RVUs plus 0.02 RVUs per Resource above 2,400,000
- From 3,600,001 to 5,100,000 Resources, 103,800 RVUs plus 0.015 RVUs per Resource above 3,600,000
- From 5,100,001 to 6,600,000 Resources, 126,300 RVUs plus 0.01 RVUs per Resource above 5,100,000
- From 6,600,001 to 8,400,000 Resources, 141,300 RVUs plus 0.005 RVUs per Resource above 6,600,000
- For more than 8,400,000 Resources, 150,300 RVUs plus 0.0025 RVUs per Resource above 8,400,000

**Standby or backup systems**

For programs running or resident on backup machines, IBM defines three types of situations: cold, warm, and hot. In cold and warm situations, a separate entitlement for the copy on the backup machine is normally not required and typically no additional charge applies. In a hot backup situation, the customer needs to acquire other license or entitlements sufficient for that server. All programs running in backup mode must be solely under the customer's control, even if running at another enterprise's location.

As a practice, the following are definitions and allowable actions concerning the copy of the program used for backup purposes.
Cold: A copy of the program may reside for backup purposes on a machine as long as the program is not started. There is no additional charge for this copy.

Warm: A copy of the program may reside for backup purposes on a machine and is started, but is idling, and is not doing any work of any kind. There is no additional charge for this copy.

Hot: A copy of the program may reside for backup purposes on a machine, is started, and is doing work. The customer must acquire a license or entitlements for this copy and there will generally be an additional charge.

Doing work includes, for example, production, development, program maintenance, and testing. It also could include other activities such as mirroring of transactions, updating of files, synchronization of programs, data, or other resources (for example, active linking with another machine, program, database, or other resource, and so on), or any activity or configurations that would allow an active hot switch or other synchronized switch over between programs, databases, or other resources to occur.

In the case of a program or system configuration that is designed to support a high availability environment by using various techniques (for example, duplexing, mirroring of files, or transactions, maintaining a heartbeat, active linking with another machine, program, database, or other resource), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

**Product and licensing websites**

A complete list of IBM Tivoli products is available at

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

IBM Tivoli product licensing documents are available at


**Passport Advantage®**

Through the Passport Advantage Agreement, you may receive discounted pricing based on their total volume of eligible products, across all IBM brands, acquired worldwide. The volume is measured by determining the total Passport Advantage points value of the applicable acquisitions. Passport Advantage points are only used for calculating the Entitled Passport Advantage discount.

To determine the required IBM Tivoli product configuration under Passport Advantage, the customer's environment is evaluated on a per-product basis.

Use the following two-step process to determine the total Passport Advantage points value:

1. Analyze your environment to determine the number of charge units for a product. The quantity of each product's part numbers to be ordered is determined by that analysis.
2. Order the Passport Advantage part numbers. A Passport Advantage point value, which is the same worldwide for a specific part number regardless of where the order is placed, is assigned to each IBM Tivoli product part number. The Passport Advantage point value for the applicable part number, multiplied by the quantity for that part number, will determine the Passport Advantage points for that IBM Tivoli product part number. The sum of these Passport Advantage points determines the Passport Advantage point value of the applicable IBM Tivoli product authorizations, which then may be aggregated with the point value of other applicable Passport Advantage product acquisitions to determine the total Passport Advantage points value.

The discounted pricing available through Passport Advantage is expressed in the form of Suggested Volume Prices (SVPs), which vary depending on the SVP level.
Each SVP level is assigned a minimum total Passport Advantage point value, which must be achieved, in order to qualify for that SVP level.

Media packs and documentation packs do not carry Passport Advantage points and are not eligible for SVP discounting.

For additional information on Passport Advantage, refer to the following

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

The following Passport Advantage part number categories may be orderable:

- License and Software Subscription and Support 12 Months: This is the product authorization with maintenance to the first anniversary date.
- Annual Software Subscription and Support Renewal: This is the maintenance renewal for one anniversary that applies when a customer renews their existing coverage period prior to the anniversary date at which it expires.
- Software Subscription and Support Reinstatement 12 months: This is for customers who have allowed their Software Subscription and Support to expire, and later wish to reinstate their Software Subscription and Support.
- Media packs: These are the physical media, such as CD-ROMs, that deliver the product's code.
- Documentation packs: These contain printed documentation such as the User's Guide and Release Notes.

**Technology Pack Tier 1 - 5 per application install**

IBM has assigned each Tivoli Netcool Performance Manager Technology Pack to a Technology Pack Tier based on price. You must acquire a Proof of Entitlement (PoE) for the corresponding tier for each Technology Pack that runs on an application installation of Tivoli Netcool Performance Manager. You may not substitute a PoE for a Technology Pack from one tier for a PoE for a Technology Pack from a different tier.

Contact your IBM representative or IBM Business Partner for a current list of technology packs within each tier and current list of managed entities.

**Pricing examples**

A customer acquires one Base license (Install) of the Tivoli Netcool Performance Manager to manage their wireline network.

The customer also wants to manage one Alcatel 5620 NM Element Management System (EMS), 400,000 carrier VOIP phones, and 20 large branch routers (managed by the EMS).

<table>
<thead>
<tr>
<th>Chargeable component metric</th>
<th>Quantity in customer environment</th>
<th>Quantity of part numbers to order</th>
<th>Resource Value Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base per install</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Tech Pack Tier 3 per Install***</td>
<td>1</td>
<td>1</td>
<td>18,000 **</td>
</tr>
</tbody>
</table>

*Per the points table above, 400,000 phones and 20 large branch routers total 405,000 points.

**405,000 points requires 18,000 RVUs per the RVU conversion table (60,000*0.05 + 240,000*0.045 + 105,000*0.040). Device RVU quantity (part number quantity) to order is 18,000.

***The Alcatel 5620 EMS requires a Technology Pack (Tier 3) but is not counted as an "entity." Only the devices managed through the EMS are counted as entities (20 large branch routers in this example) and contribute to the points and RVU total.
In a future period, the same customer wants to add support for Huawei BSS and Huawei NSS to IBM Tivoli Netcool Performance Manager to also manage their 30,000 cell wireless network. The customer is deploying an additional database, but there is no need for an additional Base license because the customer is already entitled to the Base license for the entire IBM Tivoli Netcool Performance Manager solution.

However, the customer must purchase licenses for one Huawei NSS and one Huawei BSS Technology Pack to manage 30,000 cells.

```
Installs          Resource
required,        Value Units
quantity         required,  
required,
quantity of part  quantity of part
of part          numbers     numbers
metric

Chargeable component metric

quantity in customer numbers to order
quantity of part numbers

Tech Pack Tier 2 per install 2          2
Resource value Unit 2,100,000 ****           63,900 ****

****Per the points table above, 30,000 cells total 2,100,000 points.

*****2,100,000 points managed, requires 63,900 RVUs per the RVU conversion
table (195,000*0.04 + 600,000*0.035 + 600,000*0.03 + 600,000*0.025 +
105,000*0.02). The RVU quantity (part number quantity) to order is 63,900.
The calculation of those required RVUs begins at the 0.04 factor level due to
the customer's previous purchase requiring RVUs to entitle the customer to 405,000
points. This allows the customer the additional benefit of volume scaling for the
RVUs already purchased.

After these two license orders, the customer would have purchased the following:

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity</th>
</tr>
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<tbody>
<tr>
<td>IBM Tivoli Netcool Performance Manager Base per Application</td>
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<tr>
<td>Install</td>
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<tr>
<td>IBM Tivoli Netcool Performance Manager Base per RVU</td>
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<td>Install</td>
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<td>IBM Tivoli Netcool Performance Manager Tech Pack Tier 2 Per</td>
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</tr>
<tr>
<td>Install</td>
<td></td>
</tr>
<tr>
<td>IBM Tivoli Netcool Performance Manager Tech Pack Tier 3 Per</td>
<td>1</td>
</tr>
<tr>
<td>Install</td>
<td></td>
</tr>
</tbody>
</table>

Ordering information

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

Product group: Tivoli
Product Identifier Description (PID)
IBM Tivoli Netcool Performance Manager (5724-W86)

Product category: Business Service

Current licensees

New licenses
Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Basic license

Ordering information for Passport Advantage

Passport Advantage allows you to have a common anniversary date Software
Subscription and Support (SW S&S) renewals, which can simplify management and
budgeting for eligible new versions and releases (and related technical support) for your covered products. The anniversary date, established at the start of your Passport Advantage Agreement, will remain unchanged while your Passport Advantage Agreement remains in effect. New software purchases will initially include twelve full months of Software Subscription and Support (also referred to as Software Maintenance). Software Subscription and Support in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all Software Subscription and Support (Software Maintenance) will renew at the common anniversary date for twelve full months of Software Subscription and Support (Software Maintenance).

Refer to the IBM International Passport Advantage Agreement and to the IBM Software Support Handbook for specific terms relating to, and a more complete description of, technical support provided through Software Subscription and Support (Software Maintenance).

The quantity to be specified for the Passport Advantage part numbers in the following table is per required number of <Processor Value Units, Resource Value Units, User Value Units, terabytes, or other approved metric>. To order for Passport Advantage, specify the desired part number and quantity.

IBM Tivoli Netcool Performance Manager (5724-W86)

IBM Tivoli Netcool Performance Manager Base for Multiplatforms V1.3.2

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per Install</td>
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<tr>
<td>License and SW S&amp;S 12 Months</td>
<td>D06VLLL</td>
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<tr>
<td>Annual SW S&amp;S Renewal</td>
<td>E060BLL</td>
</tr>
<tr>
<td>SW S&amp;S Reinstatement 12 Months</td>
<td>D06VMLL</td>
</tr>
</tbody>
</table>

| Per RVU                                              |             |
| License and SW S&S 12 Months                         | D06VNL     |
| Annual SW S&S Renewal                               | E060CLL     |
| SW S&S Reinstatement 12 Months                      | D06VPLL     |

IBM Tivoli Netcool Performance Manager Data Access API for Wireline V1.3.2

<table>
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<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Per Install</td>
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<tr>
<td>Annual SW S&amp;S Renewal</td>
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<tr>
<td>SW S&amp;S Reinstatement 12 Months</td>
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</tbody>
</table>

IBM Tivoli Netcool Performance Manager Real Time Reports for Wireline V1.3.2

<table>
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</thead>
<tbody>
<tr>
<td>Per Install</td>
<td></td>
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<tr>
<td>License and SW S&amp;S 12 Months</td>
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<tr>
<td>Annual SW S&amp;S Renewal</td>
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<td>SW S&amp;S Reinstatement 12 Months</td>
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IBM Tivoli Netcool Performance Manager Techpacks Tier 1 V1.3.2

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<td>Per Install</td>
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<tr>
<td>Annual SW S&amp;S Renewal</td>
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<tr>
<td>SW S&amp;S Reinstatement 12 Months</td>
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IBM Tivoli Netcool Performance Manager Techpacks Tier 2 V1.3.2

<table>
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<tbody>
<tr>
<td>Per Install</td>
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</tr>
<tr>
<td>License and SW S&amp;S 12 Months</td>
<td>D06VBLL</td>
</tr>
<tr>
<td>Annual SW S&amp;S Renewal</td>
<td>E0606LL</td>
</tr>
<tr>
<td>SW S&amp;S Reinstatement 12 Months</td>
<td>D06VCLL</td>
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</tbody>
</table>
IBM Tivoli Netcool Performance Manager Techpacks Tier 3 V1.3.2

Per Install
License and SW S&S 12 Months D06V5LL
Annual SW S&S Renewal E0603LL
SW S&S Reinstatement 12 Months D06V6LL

IBM Tivoli Netcool Performance Manager Techpacks Tier 4 V1.3.2

Per Install
License and SW S&S 12 Months D06V7LL
Annual SW S&S Renewal E0604LL
SW S&S Reinstatement 12 Months D06V8LL

IBM Tivoli Netcool Performance Manager Techpacks Tier 5 V1.3.2

Per Install
License and SW S&S 12 Months D06V1LL
Annual SW S&S Renewal E0601LL
SW S&S Reinstatement 12 Months D06V2LL

Tivoli Netcool Performance Manager Wireless Development Tool Kit V5.0.4

Per Install
License and SW S&S 12 Months D0NTVLL
Annual SW S&S Renewal E0DHHLL
SW S&S Reinstatement 12 Months D0NTWLL

To order a media pack for Passport Advantage, specify the part number in the desired quantity from the following table:

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
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<tbody>
<tr>
<td>IBM Tivoli Netcool Performance Manager Base for Multiplatforms V1.3.2 Media Pack</td>
<td>AL02EEN</td>
</tr>
<tr>
<td>IBM Tivoli Netcool Performance Manager Techpacks Tier 1 Version 1.3.2 Media Pack</td>
<td>AL02FEN</td>
</tr>
<tr>
<td>IBM Tivoli Netcool Performance Manager Techpacks Tier 2 Version 1.3.2 Media Pack</td>
<td>AL02GEN</td>
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<tr>
<td>IBM Tivoli Netcool Performance Manager Techpacks Tier 3 Version 1.3.2 Media Pack</td>
<td>AL02HEN</td>
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<td>IBM Tivoli Netcool Performance Manager Techpacks Tier 5 Version 1.3.2 Media Pack</td>
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<td>Tivoli Netcool Performance Manager Wireless Development Tool Kit Multiplatform English Media Pack V5.0.4</td>
<td>AL02DEN</td>
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</tbody>
</table>

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but
complementary elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

Prices

Business Partner information

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required.

https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller

Information on charges is available at website

http://www.ibm.com/support

In the Electronic tools category, select the option for Purchase/upgrade tools.

Passport Advantage

For Passport Advantage and charges, contact your IBM representative or your authorized IBM Business Partner. Additional information is also available at

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

Order now

To order, contact your local IBM representative or your IBM Business Partner.

To identify your local IBM Business Partner or IBM representative, call 800-IBM-4YOU (426-4968). For more information, contact the Americas Call Centers.

Phone: 800-IBM-CALL (426-2255)
Fax: 800-IBM-FAX (242-6329)
For IBM representative: callserv@ca.ibm.com

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

Mail: IBM Teleweb Customer Support
ibm.com® Sales Execution Center, Americas North
3500 Steeles Ave. East, Tower 3/4
Markham, Ontario
Canada L3R 2Z1
Reference: SE001

The Americas Call Centers, 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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