



IBM PureData System for Analytics N2001 delivers faster performance and near linear performance scalability for complex analytics

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At a glance

IBM® PureData™ System for Analytics N2001 is a purpose-built, standards-based data warehouse and analytic appliance that architecturally integrates database, server, storage, and advanced analytic capabilities into a single, easy-to-manage system. It:

- Includes a design that is specifically for running complex analytics on large data volumes at high speeds.
- Delivers the proven performance, scalability, intelligence, and simplicity that organizations need to dive deep into their data.
- Deploys and is managed easily, which can dramatically simplify organizational data warehouse and analytics infrastructures.

Overview

IBM PureData System for Analytics N2001 is a high-performance, scalable, massively parallel system that enables you to gain insight on your ever growing volumes of data, simpler and faster. Powered by Netezza® technology, a patented solution for increasing the performance of analytics, this system is designed specifically to run complex analytics on large data volumes, orders-of-magnitude faster than traditional custom systems¹.

IBM PureData System for Analytics N2001 delivers performance, scalability, intelligence, and simplicity to help meet the needs of your business. It is a low-cost option that requires minimal ongoing administration or tuning that gives you greater insight into your data.

IBM PureData System for Analytics N2001 offers:

- Hardware design that delivers our fastest performance for complex analytics to date
- Three times faster performance²
- Ten to 100 times faster performance than traditional custom systems¹
- Patented massively parallel processing hardware acceleration
- Capability designed to run complex analytics in minutes, not hours
- Ability to be up and running in 24 hours

In addition, IBM PureData System for Analytics N2001 delivers:

- Improved resiliency and workload management tooling
- Appliance simplicity that is easy to deploy and manage, that helps to dramatically simplify your data warehouse and analytic infrastructure
- A ready-to-go offering with expert integration
- A powerful platform to help manage the challenges of business intelligence (BI) and advanced analytics
- Scalable performance with blazing fast complex analytics and BI performance
- Simplified analytic development with default parallelized analytics and modules; thus no need for parallel programming
- Compatibility with most market-leading analytic and BI tools and applications, and with infrastructure powered by Netezza technology

1 Based on reported results from IBM customers. "Traditional custom systems" refers to systems that are not professionally prebuilt, pretested, and optimized. Individual results may vary.

2 Based on a comparison of IBM PureData System for Analytics N2001 to IBM PureData System for Analytics N1001. The performance speed refers to the query times on both macro-analytic and mixed workload tests as conducted in IBM engineering lab benchmarks. The N2001 query times were an average of three times faster than those of the PureData System for Analytics N1001. Individual results may vary.

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: YE001

Key prerequisites

For details, refer to the [Technical information](#) section.

Planned availability date

February 1, 2013

Description

Minimizing data movement, while processing it at physics speed, in parallel, and at massive scale, provides a huge opportunity for cost savings and efficiency in your data warehouse and analytic environments. An easy-to-use data warehouse appliance can help you achieve order-of-magnitude improvements.

IBM PureData System for Analytics N2001 is designed for rapid and deep analysis of large data volumes. It requires minimal ongoing administration or tuning and offers a low total cost of ownership (TCO).

IBM PureData System for Analytics N2001 delivers performance advantage over other analytic options. This comes from its unique asymmetric massively parallel processing architecture that combines open, IBM blade servers and disk storage with IBM-patented data filtering that uses field programmable gate arrays. This combination delivers fast query performance on analytic workloads that supports tens of thousands of business intelligence (BI) and data warehouse users, sophisticated analytics at the speed of thought.

Highlights

- Delivers a powerful platform for tackling the challenges of BI and advanced analytics.

- Delivers scalable high performance of complex analytics and BI.
- Intends to support thousands of users and complex mixed workloads.
- Includes a flexible analytic environment that supports multiple languages (for example, C/C++, Java™, Python), frameworks (for example, MapReduce), and tools {for example, R³, SAS}.
- Enables simplified analytic development with ready-to-use parallelized analytics that does not require complex parallel programming.
- Delivers a library of more than 200 prebuilt, scalable, in-database analytic functions that execute analytics in parallel while it takes away the complexity of parallel programming from the developers, users, and database administrators.
- Includes blade-based streaming architecture that incorporates commodity blades and storage combined with patented Netezza technology of data filtering by using field programmable gate arrays technology.
- Intends to dramatically simplify your data warehouse and analytics infrastructure because the appliance is simple to deploy and manage.
- Allows compatibility with most market-leading analytic and BI tools, applications, and infrastructure.
- Supports industry-standard interfaces (SQL, ODBC, JDBC, and OLE DB).
- Delivers enterprise-class reliability and availability.
- Requires low power and cooling, all in a compact footprint.
- Delivers fast load speeds that are expected to be more than 5 terabytes (TB) per hour⁴.
- Starts with a raw data capacity of 24 TB for a half-rack system, and includes models with a raw data capacity of over 190 TB for the four-rack system.
- Delivers usable capacity that exceeds three quarters of a petabyte (PB) for the largest systems with built-in compression⁵.

IBM PureData System for Analytics N2001 delivers three times faster performance⁶ and it does all of this with no increase in floor space, power, or cooling requirements⁷. With IBM PureData System for Analytics N2001, organizations can deploy the right-sized environments for their data volumes, workloads, and desired performance; and can be confident that, as data volumes grow, larger systems can be deployed quickly and easily. IBM PureData System for Analytics starts with a half-rack system that can store over 96 TB of data⁵ with the built-in, hardware accelerated, compression. Usable capacity exceeds three quarters of a PB for a four rack system.

IBM PureData System for Analytics provides near, linear performance scalability as the size of the appliance grows. This means that organizations can pick the appropriate sized appliance to meet both their data volume and performance requirements, all with predictable, scalable performance and no need to add significant additional resources to manage the appliance as data volumes grow.

All of these new features are delivered with the same simplicity and ease-of-use that distinguished IBM PureData System products inherent from its base Netezza technology that has had these distinguishing features from the very beginning. This simplicity, and ease of development and deployment is what truly sets IBM PureData System for Analytics N2001 apart. IBM PureData System for Analytics N2001 delivers high performance automatically, with no indexing or tuning required.

As an appliance, all of the integration of hardware, software, and storage is done for you, leading to shorter deployment cycles and industry-leading time to value for BI and analytic initiatives. The appliance is delivered ready-to-go for immediate data loading and query execution, and integrates with leading Extraction, Transformation, and Loading (ETL), BI, and analytic applications through standard ODBC, JDBC, and OLE DB interfaces.

IBM PureData System for Analytics N2001 is architected for high availability from the ground up. All components are internally redundant for a robust, production-ready environment from the moment the appliance is plugged into your data center.

The current IBM Netezza Performance Portal is available to customers of IBM PureData System for Analytics N2001 and IBM PureData System for Analytics N1001. Netezza Performance Portal is a web user interface (UI) tool that allows administrators to:

- Answer questions about system usage, workload, capacity planning, and overall query performance.
- Examine the current workload of a system and filter and explore historical queries and activity.
- Review both active monitoring queries and query history data (if enabled) to summarize the system activity.

You can learn more about IBM Netezza Performance Portal on Fix Central at

<http://www-933.ibm.com/support/fixcentral/>

In the Product Group menu, select Information Management and then select IBM Netezza Applications.

IBM PureData System for Analytics N2001 is delivered with entitlements for IBM InfoSphere® BigInsights™ V2.0 (Starter Edition, five users) and IBM InfoSphere Streams V3.0 (Developer License, two users).

Compatible with IBM DB2® Analytics Accelerator for z/OS®

IBM DB2 Analytics Accelerator for z/OS , V3.1 supports both the new IBM PureData System for Analytics N2001 as well as the previous generation IBM PureData System for Analytics N1001.

Additional information

For additional information about IBM PureData System for Analytics N2001, refer to

<http://www.ibm.com/puresystems>

- 3** IBM PureData System for Analytics N2001 maintains continued compatibility with Revolution R Enterprise, delivering 64-bit processing with high-performance, enterprise readiness, and support for the R programming language. Revolution R Enterprise for IBM PureData System for Analytics is available for additional purchase from IBM .
- 4** Based on IBM internal testing using IBM PureData System for Analytics N2001. Single rack load speed of 4.8 TB hour and multi-rack load speed of 5.25 TB per hour. Assumes customer source systems and network can accommodate quoted load rates. Individual results may vary.
- 5** Assuming four times compression.
- 6** Based on a comparison of IBM PureData System for Analytics N2001 to IBM PureData System for Analytics N1001. Three times faster performance refers to the query times on both macro-analytic and mixed workload tests as conducted in IBM engineering lab benchmarks. The N2001 query times were an average of three times faster than those of the PureData System for Analytics N1001. Individual results may vary.
- 7** IBM PureData System for Analytics N2001 compared to previous generation IBM PureData System for Analytics N1001. Power® and cooling specifications within 97% of previous model IBM PureData System for Analytics N1001.

Accessibility by people with disabilities

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

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

Reference information

For information about IBM DB2 Analytics Accelerator for z/OS , V3.1, refer to Software Announcement [212-396](#), dated October 3, 2012.

For information about Revolution R Enterprise for IBM PureData System for Analytics, refer to Software Announcement [212-455](#), dated October 16, 2012.

Program number

Program number	Program name
5725-I26	IBM PureData System for Analytics N2001-005
5725-I27	IBM PureData System for Analytics N2001-010
5725-I28	IBM PureData System for Analytics N2001-010 with 3-Phase Delta Power
5725-I29	IBM PureData System for Analytics N2001-020
5725-I30	IBM PureData System for Analytics N2001-020 with 3-Phase Delta Power
5725-I31	IBM PureData System for Analytics N2001-040
5725-I32	IBM PureData System for Analytics N2001-040 with 3-Phase Delta Power

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

Business Partner information

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

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=213-021>

Publications

No publications are shipped with these programs.

Technical information

Specified operating environment

Hardware requirements

IBM PureData System for Analytics N2001 is an IBM PureData System for Analytics appliance.

There are no additional hardware requirements because IBM PureData System for Analytics N2001 is a purpose-built, standards-based data appliance that architecturally integrates database, server, and storage into a single, easy-to-manage system.

For additional information, visit

<http://www-01.ibm.com/software/data/puredata/analytics/>

Software requirements

IBM PureData System for Analytics N2001 requires IBM Netezza Platform Software V7.0.2, or later.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Installability

IBM PureData System for Analytics N2001 includes IBM installation services.

Direct customer support

Direct customer support is provided by the IBM Netezza support team within the Information Management support organization. The first year of direct customer support is included with the appliance purchase. At the expiration of the warranty, you may purchase renewal of this direct customer support.

Customer support increases your productivity by providing voice and electronic access into the IBM support organization. The IBM Netezza support team is your single point of contact for all questions related to the use of the IBM PureData System for Analytics N2001 appliance, assistance with suspected defects of the IBM PureData System for Analytics N2001 appliance, or to request onsite repair activity.

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

<http://www.ibm.com/support>

Packaging

IBM PureData System for Analytics N2001 software is only available preinstalled on the IBM PureData System for Analytics N2001 appliance hardware.

Security, auditability, and control

IBM PureData System for Analytics N2001 uses the security and auditability features of the host hardware or software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Software Services

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

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

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

Ordering information

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

Product group: IBM Netezza

Product identifier	Product identifier description
5725-I26	IBM PureData System for Analytics N2001-005
5725-I27	IBM PureData System for Analytics N2001-010
5725-I28	IBM PureData System for Analytics N2001-010 with 3-Phase Delta Power
5725-I29	IBM PureData System for Analytics N2001-020
5725-I30	IBM PureData System for Analytics N2001-020 with 3-Phase Delta Power
5725-I31	IBM PureData System for Analytics N2001-040
5725-I32	IBM PureData System for Analytics N2001-040 with 3-Phase Delta Power

Product category: PureData Systems

Charge metric

Program name	PID number	Charge metric
IBM PureData System for Analytics N2001-005	5725-I26	Appliance install
IBM PureData System for Analytics N2001-010	5725-I27	Appliance install
IBM PureData System for Analytics N2001-010 with 3-Phase Delta Power	5725-I28	Appliance install
IBM PureData System for Analytics N2001-020	5725-I29	Appliance install
IBM PureData System for Analytics N2001-020 with 3-Phase Delta Power	5725-I30	Appliance install
IBM PureData System for Analytics N2001-040	5725-I31	Appliance install
IBM PureData System for Analytics N2001-040 with 3-Phase Delta Power	5725-I32	Appliance install

Appliance Install

Appliance Install is a unit of measure by which the program can be licensed. An Appliance Install is an installed copy of the Program that is included on a single unit of supporting hardware. Licensee must obtain an entitlement for each Appliance Install of the Program.

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.

Models available for ordering

The following models of IBM PureData System for Analytics N2001 are available for ordering:

- N2001-005 is a half rack appliance with 24 TB of uncompressed user data capacity that includes single phase, 200-240V, North American (NA) 30A and European (EU) 32A power cords.
- N2001-010 is a single rack appliance with 48 TB of uncompressed user data capacity that includes single phase, 200-240V, NA 60A / EU 63A power cords, with an option for 3-Phase Wye, 380-415V, 50/60Hz power cord (32A plug with 16A breaker EU / 20A breaker NA with IBM approval).

- N2001-010 with 3-Phase Delta Power is a single rack appliance with 48 TB of uncompressed user data capacity using 3-Phase Delta, 200-208V, 50/60Hz, 30A power.
- N2001-020 is a two rack appliance with 96 TB of uncompressed user data capacity that includes single phase, 200-240V, NA 60A / EU 63A power cords, with an option for 3-Phase Wye, 380-415V, 50/60Hz power cord (32A plug with 16A breaker EU / 20A breaker NA with IBM approval).
- N2001-020 with 3-Phase Delta Power is a two rack appliance with 96 TB of uncompressed user data capacity using 3-Phase Delta, 200-208V, 50/60Hz, 30A power.
- N2001-040 is a four rack appliance with 192 TB of uncompressed user data capacity that includes single phase, 200-240V, NA 60A / EU 63A power cords, with an option for 3-Phase Wye, 380-415V, 50/60Hz power cord (32A plug with 16A breaker EU / 20A breaker NA with IBM approval).
- N2001-040 with 3-Phase Delta Power is a four rack appliance with 192 TB of uncompressed user data capacity using 3-Phase Delta, 200-208V, 50/60Hz, 30A power.

Ordering information for Passport Advantage

The quantity to be specified for the Passport Advantage

Description	Part number
5725-I26 IBM PureData System for Analytics N2001-005	
Per Appliance Install	
Appliance and Subscription and Support (S&S) 12 Months	D0WEVLL
Annual Appliance Maintenance and S&S Renewal 12 Months	E0FYHLL
Appliance Maintenance and S&S Reinstatement 12 Months	D0WEWLL
Initial Appliance Business Critical Service Upgrade 12 Months	D0WEXLL
Subsequent Appliance Business Critical Service Upgrade 12 Months	E0FYILL
Initial Appliance Hard Drive Retention Service Upgrade 12 Months	D0WEYLL
Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months	E0FYJLL
For System z® Appliance and S&S 12 Months	D0WEZLL
For System z Annual Appliance Maintenance and S&S Renewal 12 Months	E0FYKLL
For System z Appliance Maintenance and S&S Reinstatement 12 Months	D0WFOLL
5725-I27 IBM PureData System for Analytics N2001-010	
Per Appliance Install	
Appliance and S&S 12 Months	D0WF7LL
Annual Appliance Maintenance and S&S Renewal 12 Months	E0FYQLL
Appliance Maintenance and S&S Reinstatement 12 Months	D0WF8LL
Initial Appliance Business Critical Service Upgrade 12 Months	D0WF9LL
Subsequent Appliance Business Critical Service Upgrade 12 Months	E0FYRLL
Initial Appliance Hard Drive Retention Service Upgrade 12 Months	D0WFALL
Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months	E0FYSLL
For System z Appliance and S&S 12 Months	D0WFBLL
For System z Annual Appliance Maintenance and S&S Renewal 12 Months	E0FYTLL
For System z Appliance Maintenance and S&S Reinstatement 12 Months	D0WFCLL

5725-I28 IBM PureData System for Analytics N2001-010 with
3-Phase Delta Power

Per Appliance Install

Appliance and S&S 12 Months	D0WF1LL
Annual Appliance Maintenance and S&S Renewal 12 Months	E0FYLLL
Appliance Maintenance and S&S Reinstatement 12 Months	D0WF2LL
Initial Appliance Business Critical Service Upgrade 12 Months	D0WF3LL
Subsequent Appliance Business Critical Service Upgrade 12 Months	E0FYMLL
Initial Appliance Hard Drive Retention Service Upgrade 12 Months	D0WF4LL
Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months	E0FYNLL
For System z Appliance and S&S 12 Months	D0WF5LL
For System z Annual Appliance Maintenance and S&S Renewal 12 Months	E0FYPLL
For System z Appliance Maintenance and S&S Reinstatement 12 Months	D0WF6LL

5725-I29 IBM PureData System for Analytics N2001-020

Per Appliance Install

Appliance and S&S 12 Months	D0WFJLL
Annual Appliance Maintenance and S&S Renewal 12 Months	E0FYVLL
Appliance Maintenance and S&S Reinstatement 12 Months	D0WFKLL
Initial Appliance Business Critical Service Upgrade 12 Months	D0WFLLL
Subsequent Appliance Business Critical Service Upgrade 12 Months	E0FYZLL
Initial Appliance Hard Drive Retention Service Upgrade 12 Months	D0WFMLL
Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months	E0FZ0LL
For System z Appliance and S&S 12 Months	D0WFNLL
For System z Annual Appliance Maintenance and S&S Renewal 12 Months	E0FZ1LL
For System z Appliance Maintenance and S&S Reinstatement 12 Months	D0WFPLL

5725-I30 IBM PureData System for Analytics N2001-020 with
3-Phase Delta Power

Per Appliance Install

Appliance and S&S 12 Months	D0WFDLL
Annual Appliance Maintenance and S&S Renewal 12 Months	E0FYULL
Appliance Maintenance and S&S Reinstatement 12 Months	D0WFELL
Initial Appliance Business Critical Service Upgrade 12 Months	D0WFFLL
Subsequent Appliance Business Critical Service Upgrade 12 Months	E0FVULL
Initial Appliance Hard Drive Retention Service Upgrade 12 Months	D0WFGLL
Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months	E0FYWLL
For System z Appliance and S&S 12 Months	D0WFHLL
For System z Annual Appliance Maintenance and S&S Renewal 12 Months	E0FYXLL
For System z Appliance Maintenance and S&S Reinstatement 12 Months	D0WFILL

5725-I31 IBM PureData System for Analytics N2001-040

Per Appliance Install

Appliance and S&S 12 Months	D0WFWLL
Annual Appliance Maintenance and S&S Renewal 12 Months	E0FZ6LL
Appliance Maintenance and S&S Reinstatement 12 Months	D0WFXLL
Initial Appliance Business Critical Service Upgrade 12 Months	D0WFYLL

Subsequent Appliance Business Critical Service Upgrade 12 Months	E0FZ7LL
Initial Appliance Hard Drive Retention Service Upgrade 12 Months	D0WFZLL
Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months	E0FZ8LL
For System z Appliance and S&S 12 Months	D0WG0LL
For System z Annual Appliance Maintenance and S&S Renewal 12 Months	E0FZ9LL
For System z Appliance Maintenance and S&S Reinstatement 12 Months	D0WG1LL

5725-I32 IBM PureData System for Analytics N2001-040 with
3-Phase Delta Power

Per Appliance Install	
Appliance and S&S 12 Months	D0WFQLL
Annual Appliance Maintenance and S&S Renewal 12 Months	E0FZ2LL
Appliance Maintenance and S&S Reinstatement 12 Months	D0WFRL
Initial Appliance Business Critical Service Upgrade 12 Months	D0WFSLL
Subsequent Appliance Business Critical Service Upgrade 12 Months	E0FZ3LL
Initial Appliance Hard Drive Retention Service Upgrade 12 Months	D0WFTLL
Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months	E0FZ4LL
For System z Appliance and S&S 12 Months	D0WFULL
For System z Annual Appliance Maintenance and S&S Renewal 12 Months	E0FZ5LL
For System z Appliance Maintenance and S&S Reinstatement 12 Months	D0WVLL

Passport Advantage part numbers in the following table is per appliance install. To order for Passport Advantage , specify the desired part number and quantity.

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.

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

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. Part number products only, offered outside of Passport Advantage , where applicable, are license only and do not include Software Maintenance.

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Subscription and Support (also referred to as Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM International Program License Agreement and the Appliance Service Attachment to Passport Advantage , which provides for support with ongoing access to releases and versions of the program.

License Information form number

L-AMKN-92WKGW

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

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

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

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

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

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

Program technical support

Technical support of a program product version or release will be available for a minimum of five 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 (via 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, via 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.

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

Usage restriction

Yes. Usage is limited to the quantity of appliance installs licensed.

For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

**Software Subscription and Support (Software Maintenance)
Appliance Maintenance and Subscription and Support Service**

Period and renewal

The initial service period for IBM machine components is the warranty period specified in a transaction document for the IBM machine component of the appliance. Warranty Services are not renewable. When the customer obtains Appliance Maintenance and Subscription and Support Service for an appliance, the initial service period for the Appliance Maintenance and Subscription and Support Service will be treated as if it is a renewal of a previous Service Period for i) the IBM machine component of the appliance and ii) the Software Subscription and Support for the program component of an appliance.

Appliance Maintenance and Subscription and Support Service are provided at the same level of service, if available, to which the customer was entitled during the warranty period or that the customer selected for a Warranty Service upgrade. The initial service period for Appliance Maintenance and Subscription and Support Service ends on i) the last day of the corresponding month in the following year, unless the warranty period ends on the last day of the month, in which case the service period ends on the last day of the month, 12 months from the date on which the warranty period ends for the machine component or ii) the customer's anniversary date, if applicable, for a service period of less than 12 full months for a prorated charge, thereby aligning the service period for Appliance Maintenance and Subscription and Support Service with the anniversary.

Consult the *IBM Appliance Support Handbook* for further details on Appliance Service and upgrade options:

<http://www.ibm.com/software/appliance/support>

Alternative maintenance options are available on a special bid basis from your IBM representative or Business Partner.

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered destroyed or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

Information on charges is available at website

<http://www.ibm.com/support>

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

For additional information and current prices, contact your local IBM representative.

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>

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<http://www.ibm.com/financing>

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Reference: YE001

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Note: Shipments will begin after the planned availability date.

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