IBM General Parallel File System Native RAID for GPFS Storage Server, V3.5 provides improved data integrity for the IBM Intelligent Cluster

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At a glance

IBM® General Parallel File System (GPFS™) Native RAID for GPFS Storage Server provides:

- Improved data integrity
- Reduced latency with faster rebuild times
- Enhanced data protection
- Unique, innovative capability

Overview

GPFS Native RAID for GPFS Storage Server, V3.5 is required for licensing the software needed to complete the GPFS Storage Server solution on the Intelligent Cluster™.

The GPFS Native RAID software is preinstalled on the Intelligent Cluster. This offering replaces the PRPQ license software previously announced as a required part of the IBM System x® GPFS Storage Server.

IBM System x GPFS Storage Server:

GPFS Storage Server is a single, integrated, fully supported IBM solution, built to leverage a strong GPFS software market. It offers high performance on a scalable building-block approach -- performance and capacity increase as you add multiple building blocks. The GPFS Storage Server is very cost competitive, with extreme data integrity and reduced latency with faster rebuild times. This new storage solution is an entirely IBM-provided solution, built on standard System x components with GPFS software tuned to support this configuration. There are two models: Model 24 and Model 26. Each model has two x3650 M4 servers twintailed with either four or six JBODs, with up to 348 disk drives. This solution leverages the high demand for GPFS software and couples it with a System x hardware solution; and is provided exclusively through the Intelligent Cluster portfolio. The IBM System x GPFS Storage Server is designed to be easy to configure and buy. With no storage controllers, the data resides closer to the compute nodes for faster rebuild times. The hardware for this solution can be ordered through x-config. The solution is currently password protected in x-config so a password will need to be acquired. Additional software licensing is also needed for the GPFS Native RAID for GPFS Storage Server, V3.5.
Licenses for GPFS Native RAID for GPFS Storage Server, V3.5 cannot be ordered independent of the selected hardware on which it can be preinstalled.

Refer to the Reference information section of this announcement for announcement information related to the IBM System x GPFS Storage Server hardware offerings that offer GPFS Native RAID for GPFS Storage Server, V3.5 preinstalled.

Licenses for offerings in this announcement include three or five years of Software Subscription and Support. Software Subscription and Support contracts are managed in Passport Advantage®. Refer to the Order handling section of this announcement for further details.

If a new release or version of the offering in this announcement is made generally available in Passport Advantage after the announcement of the offering in System x ordering systems, clients with valid Software and Subscription contracts may elect to take electronic delivery of the latest release or version.

Key prerequisites

- Intelligent Cluster hardware solution
- GPFS Storage Server

For additional information, refer to the Technical information section.

Planned availability date

October 29, 2013

Description

GPFS Storage Server, fulfilled through Intelligent Cluster, combines the performance of System x servers with industry-leading GPFS to offer a high-performance, scalable building-block approach to modern storage needs. GPFS Storage Server allows organizations to start small and build using incremental additions, providing expanded capacity and bandwidth with each additional GPFS Storage Server building block.

GPFS Storage Server features IBM System x servers, storage enclosures and drives, software, and networking components that allow for a wide choice of technology within an integrated, delivered solution. With GPFS Storage Server, you gain all the reliability, integration, and interoperability of an Intelligent Cluster solution, all within a high capacity, GPFS-based architecture.

GPFS Storage Server is a single, integrated, fully supported IBM solution. It offers high performance on a scalable building-block approach; performance and capacity increase as you add multiple building blocks. The GPFS Storage Server is very cost competitive, with improved data integrity and reduced latency with faster rebuild times.

This storage solution is built on standard System x components with GPFS software tuned to support this configuration. There are two models: Model 24 and Model 26. Each model has two x3650 M4 servers twintailed with either four or six JBODs, with up to 348 disk drives. The IBM System x GPFS Storage Server is designed to be easy to configure and buy. With no storage controllers, the data resides closer to the compute nodes for faster rebuild times.

GPFS Native RAID is required to complete this solution.
Accessibility by people with disabilities

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


Reference information

Refer to Hardware Announcement ZG13-0269, dated September 11, 2013.

Product number

Software options

None

Pseudo options

Note: The following pseudo part numbers cannot be ordered as stand-alone parts and can be ordered only by configurator.

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<tr>
<th>Pseudo part number</th>
<th>Description</th>
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<tr>
<td>00AJ874</td>
<td>IBM GPFS Native RAID for GPFS Storage Server V3.x, Per Mgd Server w/3 Yr SW S&amp;S</td>
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<tr>
<td>00AJ875</td>
<td>IBM GPFS Native RAID for GPFS Storage Server V3.x, Per Mgd Server w/5 Yr SW S&amp;S</td>
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For all parts in this announcement, the software is entitled for one GPFS Storage Server.

Managed Server

Managed Server is a unit of measure by which the program can be licensed. A server is a physical computer that is comprised of processing units, memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or client devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate server.

Licensee must obtain entitlements for each server running the program and for each server being managed by the program.

Order handling

Orders for the offerings in this announcement are allowed during configuration with eligible hardware orders. Refer to the Reference information section of this announcement for announcement information related to the hardware offerings that maybe configured with IBM GPFS Native RAID for GPFS Storage Server, V3.x.

Orders for licenses including Subscription and Support for IBM GPFS Native RAID for GPFS Storage Server, V3.x. will be routed through Passport Advantage Express® or Passport Advantage for Subscription and Support entitlement registration. Subscription and Support renewals will be managed through Passport Advantage.
If a new release or version of a given offering in this announcement is made generally available in Passport Advantage after the announcement of the offering in System x ordering systems, you may elect to take delivery of any release generally available for that offering as long as you have a valid Subscription and Support contract.

Passport Advantage allows you to have a common anniversary date for Software Subscription and Support renewals. The anniversary date, established at the order ship date for the initial product acquisition, will remain unchanged while your Passport Advantage Agreement remains in effect. New software purchases initially include 36 or 60 full months of Subscription and Support coverage. Subscription and Support in the first year of renewal can be prorated to be coterminous with your common anniversary date but managed and invoiced through Passport Advantage. Thereafter, all Software Subscription and Support will renew at the common anniversary date and include 12 full months of Subscription and Support.

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For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

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

For details on education offerings related to specific products, visit


Select your country, and then select the product as the category.
Technical information

Specified operating environment

Hardware requirements

- IBM Intelligent Cluster
- GPFS Storage Server (GSS24 and GSS26)
- One of these GSS servers:
  - 0796-011 / -HC1
  - 0796-012 / -HC2
  - 0796-013 / -HC3
  - 0796-014 / -HC4
  - 0796-015 / -HC5
  - 0796-016 / -HC6

Software requirements

Refer to Hardware Announcement ZG13-0269, dated September 11, 2013.

Limitations

Refer to Usage restrictions in the Terms and conditions section of this announcement, or to the license information document that is available on the IBM Software License Agreement website


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Cable orders

Not applicable

Packaging

For software products in this announcement, physical media and hardcopy documentation are not included in the deliverable package. The software code is preinstalled on the hardware.

After receipt of an order, the Business Partner or end customer will be required to register and accept Passport Advantage or Passport Express terms and conditions. Upon registration, the end customer will be provided with a website for the electronic download. The product includes the license and three or five years of Software Subscription and Support.

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**Security, auditability, and control**

GPFS Native RAID for GPFS Storage Server uses the security and auditability features of the system in which it is installed.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications 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, and/or integration of this product.

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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.

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To learn how Electronic Services can work for you, visit

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

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IBM warrants that the program will conform at the date of shipment to the current specifications, provided that the program is properly used in the specified operating environment.

If you believe there is a defect in a program such that it does not meet its specifications, you must notify IBM while program services are available for the program.

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Features and options only

<table>
<thead>
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<th>Feature</th>
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<tr>
<td>Field-installable features</td>
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</tr>
<tr>
<td>Customer setup</td>
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</tbody>
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**Support period**
Program Services will be available for a minimum of five years. A formal withdrawal will be issued one year prior to end of Program Services.

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<tr>
<td>Optional upgrade</td>
<td>No</td>
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<tr>
<td>Licensed programs</td>
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This software license includes Software Subscription and Support (also referred to as Software Maintenance). These programs are licensed under the IBM Program License Agreement (IPLA). IBM includes three years of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. A five year Subscription and Support offering is also available.

**License Information form numbers**

IBM GPFS Native RAID for GPFS Storage Server, V3.5: L-LMUY-99NRJ6

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


Access to IBM System fix downloads will be granted upon entitlement validation. The terms and conditions for fixes will be covered under the License Agreement for Machine Code, International Program License Agreement, International License Agreement for Non-Warranted Programs, and/or other terms provided with the fix, as applicable.

**Development/demo discount**

Up to 100%. Contact your local IBM Business Partner Office for details on participation. (Local limitations, if any, prevail.)
**Usage restrictions**
None

**Hardware warranty period**
Optional features: One year

**Field-installable features**
Yes

**Model conversions**
No

**Machine installation**
Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

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### Announcement countries
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