IBM Scale Out Network Attached Storage マシン・タイプ 2851 モデル DR2 および DE2 新規ディスク・フィーチャーの発表

レターの一部は、英語で記載されています。

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ハイライト

IBM® Scale Out Network Attached Storage （SONAS）は、以下のサポートを提供します。

• 2851 DR2 および DE2 モデルに対する拡張容量
• 4 TB 7.2k rpm ニアライン SAS ディスク（モデル当たり 240 TB）

製品の概要

IBM SONAS は、このたび SONAS ストレージ・コントローラー 2 （2851-DR2）と SONAS ストレージ拡張機構 2 （2851-DE2）向けに、4 TB 7.2k rpm ニアライン SAS ディスクを提供するようになりました。

SONAS ストレージ・コントローラー 2 （IBM マシン・タイプ・モデル 2851-DR2）：このストレージ・コントローラーは、4U x 60 ディスク・ドライブのストレージ・コントローラーであり、予備 RAID コントローラー、予備電源機器と冷却モジュール、および 60 個の 3.5 型または 2.5 型 HDD もしくは SSD 用の HDD スロットを備えています。RAID コントローラーには、次の 2 つのタイプがあります。

・ 基本 RAID コントローラー
・ パフォーマンス・モジュール・コントローラー（フィーチャー #3100）

基本 RAID コントローラーでは、2 つのキャッシュ・メモリー・サイズ（ストレージ・コントローラー当たり 4 GB と 8 GB）が利用できます。パフォーマンス・モジュール・コントローラーでは、3 つのキャッシュ・メモリー・サイズ（ストレージ・コントローラー当たり 12 GB、24 GB、および 48 GB）が利用できます。

SONAS ストレージ拡張機構 2 （IBM マシン・タイプ・モデル 2851-DE2）：このストレージ拡張ユニットは、4U x 60 ディスク・ドライブの拡張ユニットであり、予備の環境サービス・モジュール（ESM）、予備電源機器と冷却モジュール、および 60 個の 3.5 型または 2.5 型 HDD もしくは SSD 用の HDD スロットを備えています。

このストレージ・コントローラーとストレージ拡張ユニットは、SONAS システムと一緒に発注でき、SONAS ゲートウェイ接続ストレージ・システムとして構成できます。MES アップグレード・プロセスでは、追加のストレージ・コントローラーとストレージ拡張ユニットがサポートされ、お客様の設置場所で SONAS ゲートウェイ接続ストレージとして構成されます。
60 個の 4 TB 7.2k rpm SAS ディスク・ドライブをすべて装着した状態で、各エンクロージャーは最大 240 TB の未加工容量をサポートします。
主要前提条件

前提ハードウェア

SONAS ストレージ・コントローラー 2（2851-DR2）には、以下のが必要です。

・ コントローラー・ファームウェア・レベル 07.84、またはそれ以降
・ DS Storage Manager バージョン 10.77、またはそれ以降

ファームウェア・レベルおよびその他の要件の追加情報については、SONAS 製品資料および IBM Systems Support サイトを参照してください。

http://www.ibm.com/systems/support/storage/

前提ソフトウェア

SONAS ソフトウェア・レベル 1.4.1 が必要です。

Planned availability date

October 18, 2013

Description

SONAS Storage Controller 2 (2851-DR2)

The SONAS Storage Controller 2 is a 4U x 60 storage controller supporting the following features:

・ Redundant RAID controllers, each with the following features:
  - 2 GB or 4 GB cache (without feature #3100), or 6 GB, 12 GB, or 24 GB cache with feature #3100
  - Two 1 Gb Ethernet management ports
  - Four 8 Gbps Fibre Channel ports
  - Two drive-side 6 Gbps SAS expansion ports
・ Sixty drive slots
・ Redundant power supplies and cooling modules

The SONAS Storage Controller 2 may only be attached to a pair of SONAS storage nodes via four Fibre Channel LC-LC optical cables. There are one or two SONAS Storage Controller 2 in a SONAS storage POD. If there are two SONAS Storage Controller 2 in a pod, the RAID controller type and cache size (feature #3000, #3001, #3100, #3110, #3111, #3112) must be identical for both SONAS Storage Controller 2.

SONAS Storage Expansion 2 (2851-DE2)

The SONAS Storage Expansion 2 is a 4U x 60 disk storage expansion unit supporting the following features:

・ Redundant SAS switch modules
・ 60 HDD or SSD slots
・ Redundant power supplies and cooling modules

The SONAS Storage Expansion 2 may only be attached to the SONAS Storage Controller 2 (MTM 2851-DR2). If the Storage Controller 2 has the base RAID controllers (without feature #3100), then a maximum of two SONAS Storage Expansion 2 may be attached to SONAS Storage Controller 2. If the Storage Controller 2 has the Performance Module
Controllers (with feature #3100), then a maximum of five SONAS Storage Expansion 2 enclosures may be attached to the Storage Controller 2.

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

For more information about IBM SONAS, refer to:

• Software Announcement AG10-00362010 年 2 月 9 日付け
• Software Announcement AP11-01062011 年 5 月 9 日付け
• Hardware Announcement AG10-02542010 年 11 月 30 日付け
• Hardware Announcement AG11-00702011 年 5 月 9 日付け
• Software Announcement AP11-03572011 年 10 月 11 日付け
• Hardware Announcement AG11-02032011 年 10 月 11 日付け
• Hardware Announcement JG13-0154、2013 年 6 月 10 日付け

Product number

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<th>Model number</th>
<th>Feature number</th>
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<td>4 TB 7.2K NL-SAS HDD 10-pack</td>
<td>2851</td>
<td>DR2</td>
<td>3440</td>
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Education support

Classroom courses are available to IBM employees, Business Partners, and customers.

Course number  Course title

SSD0  IBM Scale Out Network Attached Storage (SONAS) Technical Training

For more information and course schedules, visit


Search on the course number “SSD0”.

You can link to course offering information directly.

SSD0 course information can be found at

http://www.ibm.com/services/learning/ites.wss/tp/en?pageType=tp_search_results&rowStart=0&rowsToReturn=20&searchString=ssd0

Contact your IBM representative for course information.

Publications
Information about IBM SONAS is provided on the Internet in the SONAS Information Center. The SONAS Information Center is also accessible through the product interface for easy access to task-specific topics. Adobe® Acrobat PDF versions of the content for browsing or printing are also in the SONAS Information Center and available as no-charge downloads from the IBM Publications website. In addition, a CD-ROM containing the SONAS product documentation is shipped with each order. To access the latest SONAS product information, refer to the IBM Scale Out Network Attached Storage Information Center at

http://publib.boulder.ibm.com/infocenter/sonasic/sonaslic/index.jsp

The following publications are shipped with the product.

<table>
<thead>
<tr>
<th>Title</th>
<th>Order number</th>
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<tr>
<td>Environmental Notices and User Guide</td>
<td>Z125-5823</td>
</tr>
<tr>
<td>IBM Translated Safety Notices</td>
<td>G229-9054</td>
</tr>
<tr>
<td>IBM Statement of Limited Warranty</td>
<td>GA32-0722</td>
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The following publication will be available at product availability. To order, contact your IBM representative.

<table>
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<tr>
<th>Title</th>
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<tr>
<td>SONAS Software Administration Guide</td>
<td>GA32-0713</td>
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<td>IBM Scale Out Network Attached Storage Software Configuration Guide</td>
<td>GA32-0718</td>
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<td>SONAS User's Guide</td>
<td>GA32-0714</td>
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<td>SONAS Installation Guide</td>
<td>GA32-0715</td>
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<td>SONAS Introduction &amp; Planning Guide</td>
<td>GA32-0716</td>
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<tr>
<td>Problem Determination and Troubleshooting Guide</td>
<td>GA32-0717</td>
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The IBM Systems Information Center provides you with a single information center where you can access product documentation for IBM systems hardware, operating systems, and server software. Through a consistent framework, you can efficiently find information and personalize your access. The IBM Systems Information Center is at


IBM Publications Center Portal

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, as well as payment options via credit card. A large number of publications are available online in various file formats, which can currently be downloaded free of charge.

Displayable softcopy publications

An online IBM information center will be available on the general availability date at the following website

http://publib.boulder.ibm.com/infocenter/sonasic/sonaslic/index.jsp
Services

Global Technology Services®

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

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

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

Refer to the SONAS product documentation and the IBM Systems Support site for additional information on firmware levels and other requirements

http://www.ibm.com/systems/support/storage/

Software requirements

SONAS Software level 1.4.1 is required.

Planning information

Customer responsibilities

The IBM Scale Out Network Attached Storage machine type (2851) is designated as Customer Engineer (CE) installable. CE setup, operation, and service publications are available.

You are responsible for downloading or obtaining from IBM, and installing designated Machine Code (microcode, basic input/output system code (called BIOS), utility programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM Internet website or from other electronic media, and following the instructions that IBM provides. You may request IBM to install Machine Code changes; however, you may be charged for that service.

Cable orders

It is the customer’s responsibility to provide the appropriate type for connecting the host or network and the 2851.
The cables to connect the various components of the 2851 must be ordered on the initial order and replacements can be obtained by ordering via MES.

Security, auditability, and control

This product uses the security and auditability features of the host hardware, host software, and/or application software to which it is attached.

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

IBM Electronic Services

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company’s strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX® 5.3, AIX 6.1, and AIX 7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Service Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type “smitty esa_main”, and select “Configure Electronic Service Agent.” In addition, ESA now includes a powerful Web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the “symptoms,” diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer’s system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable
only by the customer and IBM. The customer’s business applications or business data is never transmitted to IBM.

More accurate reporting: Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, customers can view system and support information in the "My Systems" and "Premium Search" sections of the Electronic Support Web site at

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

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with the customer’s IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledge base. Using Premium Search and the Electronic Service Agent information that has been collected from your system, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

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

契約条件

お客様サイトで取り付け可能なフィーチャー
可能。工場での取り付けも可能なフィーチャーです。

Prices

For all local charges, contact your IBM representative.

AP distribution

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<td>ASEAN*</td>
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<td>India/South Asia**</td>
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<td>People’s Republic of China</td>
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<td>Hong Kong S.A.R of the PRC</td>
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<td>Macao S.A.R of the PRC</td>
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* Brunei Darussalam, Indonesia, Cambodia, Lao People’s Democratic Republic, Malaysia, Philippines, Singapore, Thailand, and Vietnam
** Bangladesh, Bhutan, India, Sri Lanka, Maldives, Nepal, and Afghanistan

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