IBM PureFlex System: New features available

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At a glance

New features include:

- Memory features with 4 Gb DRAM memory technology for IBM Flex System™ p260, p460, and p24L Compute Nodes
- 16 Gb Fibre Channel Scalable Switch for the IBM Flex System Enterprise Chassis
- New HPC configuration

Overview

New memory features are now available on the IBM Flex System p260 Compute Node, the IBM Flex System p460 Compute Node, and the IBM Flex System p24L Compute Node. The new memory features are:

- 16 GB (2x8 GB RDIMMs) 4 Gb DDR3 1066 MHz System Memory (#EEMD)
- 32 GB (2x16 GB RDIMMs) 4 Gb DDR3 1066 MHz System Memory (#EEME)

The IBM Flex System FC5022 24-port 16Gb SAN Scalable Switch (#ESW5) is now available on the IBM Flex System Enterprise Chassis (7893-92X).

A Flex System High Performance Computing (HPC) Starter configuration is now available within the PureFlex™ System.

The Power Distribution Unit (US) - 1 EIA Unit, Universal, Fixed Power Cord feature is now available on the IBM® PureFlex System 42U Rack (7953-94X).

Key prerequisites

For feature numbers EEMD and EEME:

- IBM Flex System p260 Compute Node
- IBM Flex System p460 Compute Node
- IBM Flex System p24L Compute Node

For feature number ESW5:

- IBM Flex System Enterprise Chassis

For feature number EHPC:
One compute node chosen from:
- IBM Flex System p260 Compute Node with feature number 1761
- IBM Flex System p460 Compute Node with feature number 1761
- IBM Flex System p24L Compute Node with feature number 1761
- IBM Flex System Enterprise Chassis with feature number 3699

Planned availability date

- August 24, 2012: Features EU01, EU08, EHPC, and ESW5.
- September 11, 2012: Feature 7196
- September 28, 2012: Features 1113, 1452, 3733, 4560, EEMD, and EEME.

Description

New optional features for the IBM Flex System p260, p460, and p24L Compute Nodes include:

- 16 GB (2x8 GB RDIMMs) 4 Gb DDR3 1066 MHz System Memory (#EEMD)
  - This feature provides a matched pair of 8 GB 1066 MHz 4 Gb DDR3 RDIMMs to provide 16 GB of system memory. Memory DIMMs must be installed in pairs.
- 32 GB (2x16 GB RDIMMs) 4 Gb DDR3 1066 MHz System Memory (#EEME)
  - This feature provides a matched pair of 16 GB 1066 MHz 4 Gb DDR3 RDIMMs to provide 32 GB of system memory. Memory DIMMs must be installed in pairs.

New optional feature for the IBM Flex System Enterprise Chassis:

- IBM Flex System FC5022 24-port 16Gb SAN Scalable Switch (#ESW5)

This Fibre Channel switch enables end-to-end 16 Gb and 8 Gb connectivity. The switch enables 24 Dynamic Ports on Demand (DPOD) and grows with the needs of the clients. It can support up to a maximum of 48 ports. The N-Port Virtualization mode streamlines the infrastructure by reducing the number of domains to manage while enabling the ability to add or move servers without impact to the SAN. Management is simplified via an integrated management appliance, or clients using end-to-end Brocade SAN can leverage the Brocade management tools.

Key features of this switch:

- Superior scalability to allow greater intra-chassis connectivity
- Encryption and compression capable
- Diagnostic Port (D-Port) for superior serviceability
- Total of 48 ports wired as 28 ports internal and 20 external
- Based on Brocade's eighth-generation Condor-3 Fibre Channel Switch ASIC
- This switch includes two 16 Gb SFP Modules (#5371)

The new HPC Order Indicator (#EHPC) is used to indicate that the Flex System High-Performance Computing (HPC) configuration is present on the following PureFlex System components:

- IBM Flex System p260 Compute Node (7895-22X)
- IBM Flex System p460 Compute Node (7895-42X)
- IBM Flex System p24L Compute Node (1457-7FL)
- IBM Flex System x240 Compute Node (7863-10X)
- IBM Flex System Enterprise Chassis (7893-92X)
- IBM Flex System Manager (7955-01M)
• IBM PureFlex System 42U Rack (7953-94X)
• IBM Flex System Rear Door Heat Exchanger (1164-95X)

The HPC minimum configuration must include the following:

• One compute node chosen from:
  – IBM Flex System p260 Compute Node (7895-22X)
  – IBM Flex System p460 Compute Node (7895-42X)
  – IBM Flex System p24L Compute Node (1457-7FL)
  
  **Note:** The compute node order must include a minimum of 1 x feature number 1761 (IBM Flex System IB6132 2-port QDR InfiniBand Adapter) and meet the minimum memory and HDD requirements for the compute node.

• IBM Flex System Enterprise Chassis (7893-92X)
  
  **Note:** The chassis order must include a minimum of 1 x feature number 3699 (IBM Flex System IB6131 InfiniBand Switch).

• HPC Order Indicator (#EHPC) must be on every machine type and model on the order

Additional compute nodes may be added to the order, but must include #1761 on each order. Additional chassis may be added to the order, but must include #3699 on each order.

**Accessibility by people with disabilities**

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


**Product number**

**Planned availability date: August 24, 2012**

The following are newly announced features on the specific models of the IBM PureFlex Systems 1164, 1457, 7863, 7891, 7893, 7895, 7953, 7955, 8203, 8204, 8234, and 8406 machine types:

**New feature**

<table>
<thead>
<tr>
<th>Description</th>
<th>MT</th>
<th>Model</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPC Order Indicator</td>
<td>1164</td>
<td>95X</td>
<td>EHPC</td>
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<tr>
<td></td>
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<td>7FL</td>
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<tr>
<td></td>
<td>7863</td>
<td>10X</td>
<td></td>
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<td></td>
<td>7893</td>
<td>92X</td>
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<tr>
<td></td>
<td>7955</td>
<td>01M</td>
<td></td>
</tr>
<tr>
<td>IBM Flex System FC5022 24-port 16Gb SAN Scalable</td>
<td>7893</td>
<td>92X</td>
<td>ESW5</td>
</tr>
<tr>
<td>Switch</td>
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<tr>
<td>ITB Removable Disk Drive Cartridge</td>
<td>8203</td>
<td>E4A</td>
<td>EU01</td>
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<td></td>
<td>8204</td>
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<td></td>
<td>8234</td>
<td>EMA</td>
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<tr>
<td>ITB Removable Disk Drive Cartridge</td>
<td>9117</td>
<td>MMA</td>
<td>EU01</td>
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<tr>
<td>RDX 320 GB Removable Disk Drive</td>
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<td>7FL</td>
<td>EU08</td>
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<td>7891</td>
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Planned availability date: September 11, 2012

The following is a newly announced feature on the specific model of the IBM PureFlex Systems 7953 machine type:

New feature

<table>
<thead>
<tr>
<th>Description</th>
<th>MT</th>
<th>Model</th>
<th>Feature</th>
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<tr>
<td>Power Distribution Unit (US) - 1 EIA Unit, Universal, Fixed Power Cord</td>
<td>7953</td>
<td>94X</td>
<td>7196</td>
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Planned availability date: September 28, 2012

The following are newly announced features on the specific models of the IBM PureFlex Systems 1164, 1457, 7863, 7891, 7893, 7895, 7955, 8203, 8204, 8234, and 8406 machine types:

New feature

<table>
<thead>
<tr>
<th>Description</th>
<th>MT</th>
<th>Model</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>25m, Blue Cat5e Cable</td>
<td>7893</td>
<td>92X</td>
<td>1113</td>
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<tr>
<td>Power Cord (2.5 M), BladeCenter® to Wall, (208V/15A)</td>
<td>7893</td>
<td>92X</td>
<td>3733</td>
</tr>
<tr>
<td>Power Cord (4.3 M), To Wall, (208V/16A)</td>
<td>7893</td>
<td>92X</td>
<td>4560</td>
</tr>
<tr>
<td>16GB (2 x 8GB RDIMMs) 4Gb DDR3 1066 MHz System Memory</td>
<td>1457</td>
<td>7FL</td>
<td>EEMD</td>
</tr>
<tr>
<td>32GB (2 x 16GB RDIMMs) 4Gb DDR3 1066 MHz System Memory</td>
<td>7895</td>
<td>22X</td>
<td>EEME</td>
</tr>
</tbody>
</table>

Publications

No publications are shipped with these features.

Services

Global Technology Services

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

Technical information

Specified operating environment

Physical specifications
Physical specifications are not applicable at the feature level. For the physical specifications of a specific machine type and model, refer to the appropriate Sales Manual.

Planning information

Cable orders
No cables required.

Security, auditability, and control

This product uses the security and auditability features of host software and application software.

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

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### Terms and conditions

**Field-installable feature**
Yes

**Warranty period**
These features assume the same warranty or maintenance terms as the machine in which they are installed for the full warranty or maintenance period announced for such machine.

**Customer setup**
Yes

**Machine code**
Same license terms and conditions as base machine.

### Prices

For all local charges, contact your IBM representative.

### Announcement countries

All European, Middle Eastern, and African countries.

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http://www.ibm.com/planetwide/
Corrections

(Corrected on September 11, 2012)
Planned availability date and Product number sections revised.