IBM Express Portfolio is updated to include new IBM System x models

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Overview

Effective April 21, 2009, IBM announces new IBM Express Seller models, with special pricing and terms and conditions.

The information for this model is based on standard models but is not an exact match.

Review the specifications included in this announcement and in the IBM announcements listed in the Reference information section for specific information regarding technical specifications, warranty, and terms and conditions applicable to these models.

<table>
<thead>
<tr>
<th>New part number</th>
<th>Standard part number</th>
<th>IBM announcement number</th>
<th>Announcement date</th>
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<td>794622G</td>
<td>ZG09-0150</td>
<td>March 31, 2009</td>
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Planned availability date

May 5, 2009
## Description

### x3550 M2

<table>
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<tr>
<th>Feature</th>
<th>7946-K1G (Xeon E5504 (80W))</th>
<th>7946-K2G (Xeon E5520 (80W))</th>
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<tbody>
<tr>
<td><strong>Processor</strong></td>
<td>Xeon® E5504 (80W)</td>
<td>Xeon E5520 (80W)</td>
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<tr>
<td><strong>Quad-core</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Internal speed</strong></td>
<td>2.0 GHz</td>
<td>2.26 GHz</td>
</tr>
<tr>
<td><strong>External speed</strong></td>
<td>4.8 GT/s</td>
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<tr>
<td><strong>Number standard</strong></td>
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<td>1</td>
</tr>
<tr>
<td><strong>Maximum</strong></td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>L2 cache (full speed)</strong></td>
<td>4 MB</td>
<td>8 MB</td>
</tr>
<tr>
<td><strong>Memory (SDRAM)</strong></td>
<td>3 GB (1066 MHz)</td>
<td>6 GB (1066 MHz)</td>
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<tr>
<td><strong>RDIMMs</strong></td>
<td>3 x 1 GB</td>
<td>3 x 2 GB</td>
</tr>
<tr>
<td><strong>Address capability</strong></td>
<td>128 GB</td>
<td>128 GB</td>
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<tr>
<td><strong>Video</strong></td>
<td>SVGA</td>
<td>SVGA</td>
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<tr>
<td><strong>Memory</strong></td>
<td>8 MB</td>
<td>8 MB</td>
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<tr>
<td><strong>ServerAID</strong></td>
<td>1 x BR10i</td>
<td>1x MR10i</td>
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<tr>
<td><strong>HDD controller</strong></td>
<td>SAS</td>
<td>SAS</td>
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<tr>
<td><strong>Channels</strong></td>
<td>8</td>
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<tr>
<td><strong>Connector internal</strong></td>
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<td><strong>Connector external</strong></td>
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<td>6</td>
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<tr>
<td><strong>3.5-in slim</strong></td>
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<td>0</td>
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<td><strong>2.5-in slim</strong></td>
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<td>6</td>
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<tr>
<td><strong>Hot-swap</strong></td>
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<td>6</td>
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<tr>
<td><strong>Internal capacity</strong></td>
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<td><strong>Bays available</strong></td>
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<td><strong>5.25/3.5-in slim</strong></td>
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<tr>
<td><strong>2.5-in slim</strong></td>
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<tr>
<td><strong>Hot-swap</strong></td>
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<tr>
<td><strong>Total slots</strong></td>
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<td>2</td>
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<tr>
<td><strong>PCI</strong></td>
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<td><strong>Slots available</strong></td>
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<tr>
<td><strong>Management proc.</strong></td>
<td>Standard</td>
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<td><strong>Ethernet controller</strong></td>
<td>2x10/100/1k Mbps</td>
<td>2x10/100/1k Mbps</td>
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<td><strong>Optical</strong></td>
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<td>Multiburner</td>
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<td><strong>Diskette drive</strong></td>
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<td>0</td>
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<tr>
<td><strong>Power supply</strong></td>
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<td>675 W</td>
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<td><strong>Number standard</strong></td>
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<td>1</td>
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<tr>
<td><strong>Hot-swap</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Redundant power</strong></td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td><strong>Auto restart</strong></td>
<td>Yes</td>
<td>Yes</td>
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</table>
x3650 M2

7947-K1G 7947-K2G

Processor Xeon QC E5504 Xeon QC E5530
Internal speed 2.00 GHz 2.4 GHz
External speed 4.8 GTS 5.86 GTS
Number standard 1 1
Maximum 2 2
L2 cache (full-speed) 4 MB 8 MB
Memory 3 GB ECC 6 GB ECC
DIMMs 3 x 1 GB 3 x 2 GB
Capacity (13) 128 GB 128 GB
Video SVGA SVGA
SATA controller SATA SATA
Channels 4 4
Connector internal 4 4
ServerAID 1 x BR10i 1 x MR10i
HDD Open Bay SAS 2.5-in Open Bay SAS 2.5-in
Total bays 9 (standard) 9 (standard)
5.25 slim 1 1
3.5-in tape 0 0
Hot-swap (3.5-in) 0 0
Hot-swap (2.5-in)(1) 8 standard (12 max) 8 standard (12 max)
Internal capacity 3600 GB (1) 3600 GB (1)
Bays available 8 8
5.25 slim 0 0
3.5-in tape 0 0
Hot-swap (3.5-in) 0 0
Hot-swap (2.5-in) 8 8
Total PCI slots 4 4
PCI_E (x8) 4 4
System management Standard Standard
Ethernet controller Two 1Gb Two 1Gb
Optical drive MultiBurner MultiBurner
Power supply 675 W 675 W
Number standard 1 1
Maximum 2 2
Hot-swap Yes Yes
Redundant power Optional Optional
Auto restart Yes Yes

(1) with upgrade kit

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on the products accessibility compliance can be requested via IBM's Web site at


Reference information

For product information, refer to

• For x3550, Hardware Announcement ZG09-0150, dated March 30, 2009
• For X3650, Hardware Announcement ZG09-0169, dated March 30, 2009
The following apply only to:
- United Kingdom
- Ireland
- Germany
- Austria
- Switzerland
- Norway
- Sweden
- Finland
- Denmark

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<td>Express Model 3550 M2</td>
<td>7946 K1G</td>
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<td>7946K1G</td>
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<td>Express Model 3550 M2</td>
<td>7946 K2G</td>
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<td>7946K2G</td>
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<td>Express Model 3650 M2</td>
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<td></td>
<td>7947K1G</td>
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<td>Express Model 3650 M2</td>
<td>7947 K2G</td>
<td></td>
<td>7947K2G</td>
</tr>
<tr>
<td>x3550 M2</td>
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</tr>
<tr>
<td>E5504 2.0GHz, 3x 1gb, O/B SAS 2.5&quot;, BR10i, multiburner, 1x PS</td>
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<td>E5520 2.2GHz, 3x 2gb, O/B SAS 2.5&quot;, MR10i, multiburner, 1x PS</td>
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<td>x3650 M2</td>
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<td></td>
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<tr>
<td>E5504 2.0GHz, 3x 1gb, O/B SAS 2.5&quot;, BR10i, multiburner, 1x PS</td>
<td>7947 K1G</td>
<td></td>
<td></td>
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<td>E5530 2.4GHz, 3x 2gb, O/B SAS 2.5&quot;, MR10i, multiburner, 1x PS</td>
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A line cord, keyboard, and mouse must be ordered separately for each model.

These Options can be ordered with the systems.

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<td>42C0102</td>
<td>50-50689-87936-2</td>
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<td>USB Belgium/UK</td>
<td>42C0103</td>
<td>50-50689-87937-9</td>
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<td>USB Bulgarian</td>
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USB Norway                                42C0123  50-50689-87960-7
USB Poland                                42C0124  50-50689-87961-4
USB Portugal                              42C0125  50-50689-87962-1
USB Romania                               42C0126  50-50689-87963-8
USB Russian/Cyrillic                      42C0128  50-50689-87965-2
USB Serbian/Cyrillic                      42C0129  50-50689-87966-9
USB Slovak                                42C0130  50-50689-87967-6
USB Swedish/Finnish                       42C0131  50-50689-87968-3
USB Swiss F/G                              42C0132  50-50689-87969-0
USB UK English                            42C0133  50-50689-87970-6
USB US Euro                               42C0137  50-50689-87974-4
USB Turkish 440                            42C0138  50-50689-87975-1
USB Turkish 179                            42C0139  50-50689-87976-8

Power Cords

10A 2.8M Power Cord Option
European C13 to CEE 7/7                  39Y7917  50-50689-85276-1
Denmark C13 to DK2-5A                   39Y7918  50-50689-85277-8
Switzerland C13 to SEV 1011              39Y7919  50-50689-85280-8
Israel C13 to SI 32                     39Y7920  50-50689-85282-2
Italy C13 to CEE 7/7                    39Y7921  50-50689-85281-5
South Africa C13 to SABS 164/1          39Y7922  50-50689-85278-5
United Kingdom 1C13 to BS 1363          39Y7923  50-50689-85279-2
Universal Jumper Cord - 1.5 m             39Y7937  50-50689-85287-7
IEC C13 to C20 2.5M Power Jumper Cord Option 39Y7938  50-50689-85290-7

Publications

For publications information, refer to the IBM announcement listed in the Reference information section.

For information on this subject, refer to the IBM announcements listed in the Reference information section.

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

*Operating environment*
For a complete description of each product, refer to the IBM announcements in the Reference information section.

*Hardware requirements*
For a complete description of each product, refer to the IBM announcements in the Reference information section.

*Limitations*
For limitations information, refer to the IBM announcements listed in the Reference information section.

Planning information

*Customer responsibilities*
These systems are designated as customer setup (CSU).

*Cable orders*
For planning information, refer to the IBM announcements listed in the Reference information section.

*Installability*
For installability information, refer to the IBM announcements listed in the Reference information section.

*Packaging*
For packaging information, refer to the IBM announcements listed in the Reference information section.

*Supplies*
*For end users:* None

*Security, auditability, and control*
For a complete description of each product, refer to the IBM announcements in the Reference information section.

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.
General product/system description

For information, refer to the appropriate hardware announcements listed in the Reference information section.

National Language Support (NLS)

NLS is provided in some countries for many of the x3550 and x3650 components.

NLS includes national language keyboard support, multi-lingual nomenclature, and translated documentation as required by the individual countries.

Terms and Conditions

To obtain copies of the IBM Statement of Limited Warranty, contact your reseller or IBM.

Warranty period

- Three years

Optional IBM features initially installed in an IBM machine carry the same warranty period as the machine. If installed after the initial machine installation, they carry the balance of the machine warranty or the optional feature warranty, whichever is greater.

Warranty service

If required, IBM provides repair or exchange service depending on the type of warranty service specified below for the machine. IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM Web site. You must follow the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability. Service levels are response-time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country- and location-specific information.

The type of service is Customer Replaceable Unit (for example, keyboard, mouse, speaker, memory, or hard disk drive) Service and On-site Service.

**Customer Replaceable Unit (CRU) Service**

IBM provides a replacement CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM at any time on your request. A CRU is designated as being either a Tier 1 or a Tier 2 CRU. Installation of a Tier 1 CRU is your responsibility. If IBM installs a Tier 1 CRU, at your request, you will be charged for the installation. You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge, under the type of warranty service specified below, On-site Service.

Based upon availability, a CRU will be shipped for next business day (NBD) delivery. IBM specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU, and you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.
The following have been designated as a Tier 1 CRU:

- **x3550 M2**
  - Top cover (all models)
  - DIMM air duct
  - Memory
  - Virtual media key
  - A/C Power supply
  - Optical drives
  - Rack latch kit
  - Hard disk drives
  - Fillers Fan, hot-swap
  - ServeRAID-BR10i adapter
  - SAS/SATA riser card
  - Air baffle kit
  - Cable management arm
  - System label
  - Voltage regulator module
  - Cable, hard disk drive configuration
  - Cable, operator panel
  - Cable, SATA DVD
  - EMC fillers
  - Ethernet card
  - Labels
  - Low-profile adapter (varies)
  - Riser-card bracket
  - Bracket assembly, rear I/O
  - SAS adapter retainer
  - Video adapters
  - Hypervisor<sup>TM</sup>, embedded USB flash device

- **x3650 M2**
  - Air baffles
  - Blank filler
  - Cable-management arm
  - Hard disk drives
  - Hot-swap fan
  - Hot-swap AC power supply
  - Lift handle kit
  - Memory DIMM
  - Memory expansion card
  - Optical drive
  - PCI adapter
**On-site Service**

This provides On-site Repair, 9 hours per day, Monday through Friday excluding holidays, NBD response. IBM or your reseller will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose. On-site Service is not available in all countries, and some countries have kilometer or mileage limitations from an IBM service center. In those locations where On-site Service is not available, the normal in-county service delivery is used.

**International Warranty Service**

International Warranty Service (IWS) is available in selected countries or regions.

The warranty service type and the service level provided in the servicing country may be different from that provided in the country in which the machine was purchased.

Under IWS, warranty service will be provided with the prevailing warranty service type and service level available for the IWS-eligible machine type in the servicing country and the warranty period observed will be that of the country in which the machine was purchased.

To determine the eligibility of your machine and to view a list of countries where service is available, visit:


For more information, refer to IBM announcement ZS01-0168, dated September 25, 2001.

**ServicePac® Service Upgrades**

The announced products are also eligible for ServicePac warranty upgrades. ServicePacs provide a higher level of service than that provided under the base IBM Machine Warranty.

ServicePacs can be purchased from your IBM Business Partner and are specific to the machines/products listed.

<table>
<thead>
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<th>ServicePac offering</th>
<th>e-ServicePac number</th>
<th>Ordering part number</th>
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</thead>
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<td>x3550 M2</td>
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</tr>
<tr>
<td>3yr On-site Repair</td>
<td></td>
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</tr>
<tr>
<td>9hr x 5 days 4hr Resp Target</td>
<td>PC1068</td>
<td>65Y5214</td>
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<td>24hr x 7 days 4hr Resp Target</td>
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<td>65Y5215</td>
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<td>24hr x 7 days 6hr Committed Service</td>
<td>PC1088</td>
<td>65y1212^4</td>
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<td>24hr x 7 days 8hr Committed Service</td>
<td>PC529</td>
<td>41w9680^5</td>
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<tr>
<td>24hr x 7 days 24hr Committed Service</td>
<td>PC926</td>
<td>40y5878^6</td>
</tr>
<tr>
<td>9hr x 5 days NBD Comm Parts</td>
<td>PC1024</td>
<td>65y0991^7</td>
</tr>
<tr>
<td>4yr On-site Repair</td>
<td>9hr x 5 days 4hr Resp Target</td>
<td>PC1076</td>
</tr>
<tr>
<td>24hr x 7 days 4hr Resp Target</td>
<td>PC1077</td>
<td>65y5223^2</td>
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<tr>
<td>5yr On-site Repair</td>
<td>9hr x 5 days 4hr Resp Target</td>
<td>PC1078</td>
</tr>
<tr>
<td>24hr x 7 days 4hr Resp Target</td>
<td>PC1079</td>
<td>65y5225^2</td>
</tr>
</tbody>
</table>

^3 Austria, Germany, Turkey, and South Africa only
^4 UK only
^5 Czech Republic, Hungary, Poland, Russia, Solovakia, Slovenia, Switzerland, Romania, Croatia, and Serbia only
^6 Austria, Czech Republic, Germany, Hungary, Poland, Russia, Slovakia, Slovenia, Turkey, Switzerland, Romania, Croatia, Serbia, and South Africa only
^7 Russia only

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**Field installable features**

Yes

**Model conversions**

No

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IBM hourly service rate classification
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Model conversions
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