IBM DB2 Warehouse Manager for z/OS and DB2 Warehouse Manager Sourcing Agent for z/OS are Upgraded to V8.1

Overview

DB2® Warehouse Manager V8.1 Enhancements

• DB2 Integration and Exploitation
  - DB2 ESE Load Support: With V8.1, the load utility will now support DB2 ESE split and load into multi-partition tables resulting in significantly reduced load times, which will substantially increase availability of batch window.
  - Integrated Control Center and Replication Center: Built on DB2, DB2 Warehouse Manager continues to integrate warehouse capabilities with DB2 providing a seamless interface. With V8.1, the Data Warehouse Center (DWC) will provide an interface with the Control Center utility functions as well as a replication GUI that is consistent with the Replication Center.

• Warehouse Server on AIX®: Before V8.1, the Warehouse Server had to be installed on a Windows NT® or Windows® 2000 server. With V8.1, users can install their Warehouse Servers on AIX as well. This removes the Windows® dependency.

• Linux Agent support: Linux platform users can utilize Extract, Transform, and Load (ETL) capabilities of DB2 Warehouse Manager via the Linux agent introduced in V8.1.

• Performance: Warehouse definition and population operations have been enhanced in V8.1. The technique used for defining the warehouse sources has been streamlined to improve definitional performance. A new transformer pushes transformation work to the DB2 engine, resulting in improved population performance.

• Usability and functionality: V8.1 introduces “SQL Update” capability, which is frequently used in a warehouse environment to update the target data with the data selected from the source. In addition, DB2 V8.1 users will be able to define a process that waits for multiple steps to complete. DB2 Warehouse Manager V8.1 also includes usability enhancements in the areas of SQL Step, process, column mapping, and process modeller.

• Information Catalog Manager (ICM): ICM has been rearchitected to provide an extendable metadata store, which can be used by the Information Catalog Center on multiple DB2 platforms. It now includes metadata object level security and user-defined relationship types. The Information Catalog Center is a “Control Center” client of the ICM, offering a new, easier to use interface. In addition, there is a Web interface for ICC business users.

ICM Enhancements

• New enhanced desktop interface
• Web interface via WebSphere® application
• Java™ API

Key Prerequisites

• DB2 for z/OS™ V6 or V7
• Workstation running Windows NT, Windows 2000, Windows XP, or AIX

Planned Availability Date

December 27, 2002

At a Glance

Enhancements in V8.1 of DB2 Warehouse Manager for z/OS and DB2 Warehouse Manager Sourcing Agent for z/OS:

• DB2 integration and exploitation
• Extended platform support
• Improved performance
• Usability and functionality improvements, including
  - Support wait for multiple steps
  - Support select from source
  - UPDATE target warehouse
• Information Catalog Manager enhancements

For ordering, contact:
Your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL

Reference: YE001

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
Managing your metadata utilizing standards-based

Automating and monitoring the warehouse

Directing the population of your data warehouses

Defining data extraction and data transformation steps

Registering and accessing data sources for your management:
the diverse tasks of warehouse creation and Center.

through metadata interchange with the DB2 Warehouse
they need for making decisions. It populates the catalog
end users to find, understand, and access information
availability of DB2 and z/OS.

take full advantage of the power, security, reliability, and
in your z/OS environment without the need to export it to
z/OS executes z/OS-based processes on behalf of the
DB2 Data Warehouse Center, which is a GUI that
integrates with the DB2 Control Center

Warehouse agent for z/OS, which executes on behalf of the Data Warehouse Center and enables point-to-point data movement

Warehouse transformers, which are stored procedures or user-defined functions that provide commonly used transformations for building data warehouses

The Information Catalog, which helps end users find, understand, and access relevant information

DB2 Universal Database® V8.1 Enterprise Server Edition (restricted use license)

Use DB2 Warehouse Manager for z/OS to simplify and speed your warehouse prototyping, development, and deployment to production. Integration with the Information Catalog enables you to satisfy user requirements for finding, understanding, and accessing the right data.

DB2 Universal Database Enterprise Server Edition V8.1:
The data warehouse management infrastructure is delivered as elements of DB2 UDB Enterprise Server Edition V8.1. This copy of DB2 is included, with a restricted-use license, to permit delivery and utilization of the Workstation-based components of the DB2 Warehouse Manager for OS/390®.

Data Warehouse Center: The Data Warehouse Center gives you a graphical control facility, fully integrated with DB2 Control Center. Now you can more easily accomplish the diverse tasks of warehouse creation and management:

• Registering and accessing data sources for your warehouse
• Defining data extraction and data transformation steps
• Directing the population of your data warehouses
• Automating and monitoring the warehouse management processes
• Managing your metadata utilizing standards-based metadata interchange

The Information Catalog: The Information Catalog helps end users to find, understand, and access information they need for making decisions. It populates the catalog through metadata interchange with the DB2 Warehouse Center.

z/OS Agent and Transformers: The warehouse agent for z/OS executes z/OS-based processes on behalf of the Data Warehouse Center. It permits data to be processed in your z/OS environment without the need to export it to an intermediate platform environment, allowing you to take full advantage of the power, security, reliability, and availability of DB2 and z/OS.

Warehouse transformers are stored procedures or user-defined functions that provide commonly used transformations for building data warehouses. These transformers provide complex transformations commonly used in warehouse development including:

• Date manipulation
• Data cleaning
• Key generation
• Statistical calculations

These transformers augment the rich transformations available with SQL built-in functions including:

• String manipulation
• Boolean operations
• Mathematical calculations
• Datatype conversions
• Utility invocations

DB2 Warehouse Manager Sourcing Agent for z/OS

The DB2 Warehouse Manager Sourcing Agent for z/OS is designed for customers who already have a non-z/OS Warehouse Manager package, and want to use the z/OS agent against z/OS sources. The z/OS warehouse agent will source data from z/OS and move it to a DB2 Intel®/UNIX® platform warehouse. This eliminates the need to move data off the S/390® before performing transformations.

Section 508 of the U.S. Rehabilitation Act

DB2 Warehouse Manager for z/OS, V8.1 and DB2 Warehouse Manager Sourcing Agent for z/OS, V8.1 are capable as of December 27, 2002, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Value Unit Based Pricing

Value Unit based pricing will help to align the prices of these products to the principle of the PSLC pricing curve which provides for a lower price per millions of service units per hour (MSU) for larger capacities.

There is also be a price benefit when customers grow their capacity. Additional capacity will be based on the number of Value Units (MSUs) the customer has already installed, for example, additional capacity will not be priced starting at the base with a higher price per unit but on the capacity that is already installed.

Note that value units of a given product cannot be exchanged/interchanged/aggregated with Value Units of another product.

International Program License Agreement (IPLA) and Subscription and Support Considerations

IPLA licenses can be transferred from one machine to another within, but not limited to an enterprise. The customer may aggregate the capacity for all the processors the product is operated on to achieve a more economic price. This will result in a single Proof of Entitlement. It is the customer’s responsibility to manage the distribution of Value Units within the limits of the entitlement of the product license.

Subscription and Support must cover the same capacity as the product license entitlement. Subscription and
Support will be available in the country in which the agreement is made.

**Trademarks**

z/OS is a trademark of International Business Machines Corporation in the United States or other countries or both.
DB2, AIX, WebSphere, DB2 Universal Database, OS/390, and S/390 are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
Intel is a registered trademark of Intel Corporation.
Windows NT and Windows are registered trademarks of Microsoft Corporation.
Java is a trademark of Sun Microsystems, Inc.
UNIX is a registered trademark of the Open Company in the United States and other countries.
Other company, product, and service names may be trademarks or service marks of others.
**Education Support**

For information on the types and availability of training, visit:

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

Visit the following Web site for additional information:


The appropriate curriculum will include the enhancements described in this announcement.

Refer to the IBM Learning Services Home Page for available courses in your country:


Call IBM Education and Training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

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**Offering Information**

Product information will be available on day of announcement through Offering Information (OITOOL) at:

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

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**Publications**

No publications are shipped with these programs.

The following are some of the publications that can be ordered from IBM.

<table>
<thead>
<tr>
<th>Title</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM DB2® Data Warehouse Manager Installation Guide English</td>
<td>GC27-1122</td>
</tr>
<tr>
<td>IBM DB2 Universal Database® Data Warehouse Center Administration Guide English</td>
<td>SC27-1123</td>
</tr>
<tr>
<td>IBM DB2 Warehouse Manager Information Catalog Centre Administration Guide English</td>
<td>SC27-1125</td>
</tr>
<tr>
<td>IBM DB2 Universal Database Data Warehouse Center Application Integration Guide English</td>
<td>SC27-1124</td>
</tr>
</tbody>
</table>

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**Technical Information**

**Hardware Requirements**: The DB2 Warehouse Manager for z/OS™ requires system capable of running DB2 UDB for OS/390® or z/OS, V6, or later.

It requires 30 MB of storage.

DB2 Warehouse Manager Sourcing Agent for z/OS requires system that will run OS/390 V2R10 or z/OS.

HFS disk space on the z/OS machine of 30 MB.

Workstation component requires Intel®-based system.

**Software Requirements**

DB2 Warehouse Manager for z/OS, V8.1

The DB2 Warehouse Manager for z/OS uses the Data Warehouse Center as its User Interface. The Data Warehouse Center is a part of DB2 Administrative Client, which is included in the DB2 UDB Enterprise Server Edition. A restricted-use copy of the DB2 UDB Enterprise
Server Edition V8.1 is included in the DB2 Warehouse Manager for z/OS, V8.1 package.

The Administrative Client supports Windows NT® 4.0, Windows 2000®, or XP (32-bit), AIX® 4.3.3.0 32-bit or 5.1d, and Sun Solaris operating environments. For details, refer to Software Announcement 202-214, dated September 17, 2002.

DB2 Warehouse Manager provides agents for z/OS and OS/390. These agents require:

- OS/390 V2R10, z/OS or z/OS.e

Warehouse Manager requires one of these releases of DB2 for z/OS and OS/390:

- DB2 UDB for OS/390 and z/OS, V7 (5675-DB2)
- DB2 UDB for OS/390, V6 (5645-DB2)

To use the transformers, DB2 Java™ Stored procedures must be enabled.

For workstation component requirements in general you need either AIX or Windows and a machine to run the operating system. These are the supported releases of Windows and AIX:

Windows

- Windows NT 4.0 with SP™ 6a, or later, and Internet Explorer 4.01 with SP 2, or later
- Windows 2000 Professional, Standard Server, Advanced Server, and Datacenter Servers
- Support for 32-bit Windows .Net and 64-bit Windows .Net operating systems will be offered after these operating systems become generally available

AIX

- AIX (32-bit) 4.3.3 with maintenance level 9, or later, and APARs IY22308, Y32690, and IY33024 (32-bit only)
- AIX (32-bit) 5.1.0 with maintenance level 2, or later, and APARs IY31254, IY32217, IY32905, and IY33023

DB2 Warehouse Manager Sourcing Agent for z/OS, V8.1

DB2 Warehouse Manager Sourcing Agent for z/OS requires:

- OS/390 V2R10, z/OS or z/OS.e
- DB2 UDB for OS/390 and z/OS, V7 (5675-DB2) or DB2 UDB for OS/390, V6 (5645-DB2)

To use the transformers, DB2 Java Stored procedures must be enabled.

Planning Information

Packaging: The DB2 Warehouse Manager for z/OS, V8.1 is distributed with the following content:

- Basic machine-readable material is on a 3480 tape cartridge.
- Program Directory (GI10-8481).
- Proof of Entitlement (PoE).
- IBM International Program License Agreement (IPLA).
- License Information (GC18-7035).
- DB2 Warehouse Manager Kit/CD V8.1

The DB2 Warehouse Manager Sourcing Agent for z/OS, V8.1 is distributed with the following content:

- Basic machine-readable material is on a 3480 tape cartridge.
- Program Directory (GI10-8480).
- PoE.
- IPLA.
- License Information (GC18-7034).

Security, Auditability, and Control

DB2 Warehouse Manager for z/OS, V8.1 and DB2 Warehouse Manager Sourcing Agent for z/OS, V8.1 use the security and auditability features of the host system hardware and software.

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

Ordering Information

DB2 Warehouse Manager for z/OS, V8.1 has a single charge unit of “Value Units.”

Subscription and Support for DB2 Warehouse Manager for z/OS also has a single charge unit of “Value Units.”

DB2 Warehouse Manager Sourcing Agent for z/OS, V8.1 has a single charge unit of “Value Units.”

Subscription and Support for DB2 Warehouse Manager Sourcing Agent for z/OS also has a single charge unit of “Value Units.”

Value Unit Exhibit VUE007

<table>
<thead>
<tr>
<th>Usage Level</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Value Units/MSU</th>
</tr>
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<tbody>
<tr>
<td>Base</td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>PSLC/Level A</td>
<td>4</td>
<td>45</td>
<td>0.45</td>
</tr>
<tr>
<td>PSLC/Level B</td>
<td>46</td>
<td>175</td>
<td>0.36</td>
</tr>
<tr>
<td>PSLC/Level C</td>
<td>176</td>
<td>315</td>
<td>0.27</td>
</tr>
<tr>
<td>PSLC/Level D</td>
<td>316</td>
<td>+</td>
<td>0.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HW</th>
<th>Value Units/Machine</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP3000 H30</td>
<td>6</td>
</tr>
<tr>
<td>MP3000 H50</td>
<td>8</td>
</tr>
<tr>
<td>MP3000 H70</td>
<td>12</td>
</tr>
<tr>
<td>ESL Models</td>
<td>2</td>
</tr>
</tbody>
</table>

The products in this announcement have one charge unit — Value Units.

Value Units for IBM 9672 Processors will be based upon the full capacity of these systems. This is applicable to all S/390®-based systems that are measured on MSU capacity. Information on MSU capacities can be found in the IBM System/370™, System/390® and zSeries™ Machine Exhibit, Z125-3901.

Value Units for zSeries will be based upon full MSU capacity as defined in the Machine Exhibits.

There will be a tool available that provides support for transforming the MSU-based capacities of S/390 systems to new Value Units by calculating the applicable number of Value Units for a given number of MSUs.
Translation from MSUs to Value Units Example

<table>
<thead>
<tr>
<th>MSUs</th>
<th>Value Units/MSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>1-3</td>
</tr>
<tr>
<td>Tier A</td>
<td>4-45</td>
</tr>
<tr>
<td>Tier B</td>
<td>46-175</td>
</tr>
<tr>
<td>Tier C</td>
<td>176-315</td>
</tr>
<tr>
<td>Tier D</td>
<td>316+</td>
</tr>
</tbody>
</table>

**Note:** For the actual translation from MSUs to Value Units for this product, refer below.

**Ordering Example:** The total number of Value units is calculated according to the following example.

If the customer has installed 1,500 MSUs, the applicable Value Units would be:

**Translation from MSUs to Value Units**

<table>
<thead>
<tr>
<th>Value</th>
<th>MSUs * Units/MSU = Value Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>3 * 1.00 = 3.00</td>
</tr>
<tr>
<td>Tier A</td>
<td>42 * .45 = 18.90</td>
</tr>
<tr>
<td>Tier B</td>
<td>130 * .36 = 46.80</td>
</tr>
<tr>
<td>Tier C</td>
<td>140 * .27 = 37.80</td>
</tr>
<tr>
<td>Tier D</td>
<td>1185 * .20 = 237.00</td>
</tr>
<tr>
<td>Total</td>
<td>1500  = 344</td>
</tr>
</tbody>
</table>

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

**Feature Number**

- 1 Value Unit 0001
- 250 Value Units 0002

Example: For a product running on machines with 1,500 MSUs requiring 344 Value Units, order feature number 0001, quantity 94 and feature number 0002, quantity 1.

**Note:** For actual feature numbers, refer below.

Value Units for non MSU-based S/390 Processors:

**HP3000 Models**

- H30 = 6 Value Units
- H50 = 8 Value Units
- H70 = 12 Value Units
- P/390, R/390, IBM 3006 = 2 Value Units

**Basic License:** To order, specify the program number, feature number 9001 for asset registration, and the one-time charge (OTC) feature number. Also specify the feature number of the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Translation from MSUs to Value Units

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</table>

**Description**

<table>
<thead>
<tr>
<th>Program Number</th>
<th>OTC Feature Number</th>
<th>Medium Feature Number</th>
<th>Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB2</td>
<td>5655-I61</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warehouse Manager for z/OS, V8.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Value Unit 0001</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>250 Value Units 0002</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>5802</td>
<td>Tape and CD-RWs</td>
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</tr>
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</table>

**Description**

<table>
<thead>
<tr>
<th>Program Number</th>
<th>OTC Feature Number</th>
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</thead>
<tbody>
<tr>
<td>DB2</td>
<td>5655-I62</td>
</tr>
<tr>
<td>Warehouse Manager Sourcing Agent for z/OS, V8.1</td>
<td></td>
</tr>
<tr>
<td>1 Value Unit 0001</td>
<td></td>
</tr>
<tr>
<td>250 Value Units 0002</td>
<td></td>
</tr>
</tbody>
</table>

**Subscription and Support**

To receive voice technical support via telephone during normal business hours, and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the support program number and feature number 9001 for asset registration. IBM is also providing subscription and support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Support (IAAS). This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles customers to future releases and versions at no additional charge. Note that the customer is not entitled to new products.

Once subscription and support is ordered, the charges will renew automatically annually unless cancelled by the customer.

**Description**

<table>
<thead>
<tr>
<th>Program Number</th>
<th>ASC Feature Number</th>
<th>Medium Feature Number</th>
<th>Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subscription and Support for DB2 Warehouse Manager for z/OS, V8.1</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1 Value Unit 0001</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>250 Value Units 0002</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decline (no charge) 0003</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

-3-
Submit any additional MSUs or Value Units required.

- Use the product defined capacity for z/OS (as specified on the Sub-Capacity Reports submitted to IBM for sub-capacity WLC) as the sub-capacity (MSUs) for each Tool.

- Submit any additional MSUs or Value Units required for each product along with the current entitlement in Value Units for each product.

- If the use of sub-capacity pricing terms for AD and DM Tools results in a reduced requirement for Value Units, thus freeing up entitlements, customers can reallocate the entitlement difference by distributing the Value Units across a larger or different set of systems, or reserve them for future growth. There will be no refunds for these freed up Value Units. Subscription and Support volumes and entitlements for existing contracts will continue to be at the same levels as the acquired licenses.

Management of the Value Unit entitlements continues to be a customer responsibility. If one of the following occur on a machine to which AD or DM Tools are licensed, the customer must determine if additional Value Units and Subscription and Support need to be ordered for those tools to cover the increase:

- The z/OS defined capacity is increased.

- The requirements for WLC sub-capacity charges are no longer met.

**Licensing:** IPLA. PoEs are required for all authorized use.

The IBM Agreement for Acquisition of Support (Z125-6011) applies for maintenance and do not require customer signatures.

These products are licensed under the IPLA, and the associated Agreement for Acquisition of Support, and the Addendum for Support (Z125-6336), which provides for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an ongoing recurring charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours) as well as access to updates, releases, and versions of the program as long as support is in effect. S/390 and zSeries IBM Operational Support Services — Support Line is an option for customers who want added services.

**Limited Warranty Applies:** Yes

**Program Services:** Available until March 31, 2005

**Money-Back Guarantee:** If for any reason you are dissatisfied with the program, return it within 30 days from the invoice date, to the party (either IBM or its reseller) from whom you acquired it, for a refund. This applies only to your first acquisition of the program.

**Copy and Use on Home/Portable Computer:** No
Volume Orders (IVO): No

Passport Advantage Applies: No

Usage Restriction: Yes

**Limited-Use License for DB2 UDB Enterprise Edition:**
The DB2 Warehouse Manager provides a restricted-use copy of DB2 UDB Enterprise Server Edition V8.1.

Authorization to use this copy of DB2 UDB Enterprise Server Edition is to enable database management of DB2 for OS/390 data warehouse control databases by the following workstation tools only:

- Data Warehouse Center
- Information Catalog

For use of DB2 UDB Enterprise Server Edition, other than the uses specifically described above, you must obtain a separate license for DB2 UDB Enterprise Server Edition from IBM.

**DB2 Warehouse Manager Sourcing Agent for z/OS:**
Requires customers to have already purchased DB2 Warehouse Manager and that the agent only be used to source data from the DB2 servers running on the system to which it is licensed.

**Software Maintenance Applies: No**

For operating system software, the revised IBM Operational Support Services — Support Line offering will provide support for those operating systems and associated products that are not available with the newly announced Software Maintenance offering. This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised Support Line offering, refer to our Web site at:

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

For additional information on the revised IBM Operational Support Services, refer to Services Announcement 601-023, dated July 10, 2001.

**IBM Operational Support Services — Support Line: No**

**AIX/UNIX® Upgrade Protection Applies: No**

**Entitled Upgrade for Current AIX/UNIX Upgrade Protection Licensees: No**

**iSeries™ Software Subscription Applies: No**

**Variable Charges Apply: No**

**Educational Allowance Available:** Yes, 15% education allowance applies to qualified education institution customers.

**Replaced Program**

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Program Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5675-DB2</td>
<td>DB2 UDB for OS/390 and z/OS, V7 (DB2 Warehouse Manager Feature)</td>
</tr>
</tbody>
</table>

**Replacement Program**

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Program Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-I61</td>
<td>DB2 Warehouse Manager for z/OS, V8.1</td>
</tr>
</tbody>
</table>

**Prices**

Contact your IBM representative for prices information for this announcement.

**Order Now**

Use Priority/Reference Code: YE001
Phone: 800-IBM-CALL
Fax: 800-2IBM-FAX
Internet: ibm_direct@vnet.ibm.com
Mail: IBM Atlanta Sales Center
Dept. YE001
P.O. Box 2690
Atlanta, GA 30301-2690

You can also contact your local IBM Business Partner or IBM representative. To identify them, call 800-IBM-4YOU.

**Note:** Shipments will begin after the planned availability date.

**Trademarks**

z/OS, SP, System/370, zSeries, z/Architecture, MVS, and iSeries are trademarks of International Business Machines Corporation in the United States or other countries or both. DB2, DB2 Universal Database, OS/390, AIX, S/390, System/390, and Systempacs are registered trademarks of International Business Machines Corporation in the United States or other countries or both. Intel is a registered trademark of Intel Corporation. Windows NT and Windows are registered trademarks of Microsoft Corporation. Java is a trademark of Sun Microsystems, Inc. UNIX is a registered trademark of the Open Company in the United States and other countries. Other company, product, and service names may be trademarks or service marks of others.