IBM VisualAge Smalltalk Server for OS/390 and z/OS, V6.0 — The Deployment Environment for VisualAge Smalltalk

Overview

VisualAge® Smalltalk Server for OS/390® and z/OS™, V6.0 is the run-time deployment environment for Smalltalk Server applications on OS/390 and z/OS. Using Server Workbench, software developers create applications on the workstation using the same rapid development tools familiar to VisualAge Smalltalk programmers. These client/server applications can then be deployed to CICS/ESA®, IMS/ESA®, z/OS, OS/390, or WebSphere® Application Server for z/OS and OS/390 with VisualAge Smalltalk Server for OS/390 and z/OS.

For additional information, refer to Software Announcement 202-107, dated May 7, 2002.

With VisualAge Smalltalk Enterprise and VisualAge Server Workbench, you can:

• Write transactions for IMS and CICS®
• Access DB2®, VSAM files, and QSAM files
• Interface with applications using MQSeries® TCP/IP, APPC, and CPI-C
• Interface with COBOL, C, and PL/I applications
• Run XML applications
• Interface with Web servers using servlets
• Run applications that host or invoke Web Services
• Run applications with VisualAge Smalltalk Web Connection
• Develop on Windows® and OS/2®

Asynchronous Callout, now enabled on MVS™ when running in the batch environment, can expand cross-platform portability and server enablement. The power of the server on z/OS and OS/390 can be opened up by taking advantage of asynchronous calls within your VisualAge Smalltalk applications. With Asynchronous Callout, you can manage multiprocessor machines with a single Smalltalk image and increase the reliability of your application.

Key Prerequisites

• Host configuration
  One of the following:
  - OS/390 V2.10, or later (5647-A01)
  - z/OS V1.1, or later (5694-A01)

• Workstation configuration:
  VisualAge Smalltalk Enterprise, V6.0

Refer to the Software Requirements section for a list of optional software for the host configuration.

Planned Availability Date

June 21, 2002

At a Glance

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• Interface with COBOL, C, and PL/I applications
• Run XML applications
• Interface with Web servers using servlets
• Run applications that host or invoke Web Services
• Run applications with VisualAge Smalltalk Web Connection
• Develop on Windows and OS/2

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

Reference: LE001

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Description

VisualAge Smalltalk Server for z/OS and OS/390, V6.0 offers enhancements for the VisualAge Smalltalk Server for OS/390 product and the Server Workbench feature. These products provide an object-oriented, client/server environment in which a developer can create applications on Windows and OS/2.

The Server Workbench feature offers:

- Cooperative real-time debugging of packaged applications, which allows Smalltalk errors to be communicated to the developer interactively, on a predesignated workstation. A programmer can inspect objects, evaluate code, step through the running application, and change methods, all for immediate processing by the application running on the target platform.

- Integrated packaging support for creating server images that can run without any user interface code (known as headless servers)

- The complete benefits of an integrated development environment, including:
  - Version control
  - Configuration management
  - Packaging code

VisualAge Smalltalk Server for OS/390 is the run-time environment for deploying server Smalltalk applications on OS/390. It provides the middleware support for the runtime classes to execute in the CICS, IMS, and batch environments.

For additional information visit:

http://www.ibm.com/software/ad/smalltalk

Product Positioning

VisualAge Smalltalk Server for OS/390 and z/OS, mainframe programmers can achieve the same level of productivity and capability as those using VisualAge Smalltalk on a PC or workstation.

Hardware and Software Support Services

SmoothStart™/Installation Services

SmoothStart and Installation Services are not provided.

Consulting and Services Available

Consulting and services are available through the VisualAge Smalltalk Group. For availability and pricing, send e-mail to vaweb@us.ibm.com or contact your software service sales representative at swsvcs@us.ibm.com.

Trademarks

z/OS, IMS, MVS, and SmoothStart are trademarks of International Business Machines Corporation in the United States or other countries or both.
OS/390, VisualAge, CICS/ESA, IMS/ESA, WebSphere, CICS, DB2, MQSeries, and OS/2 are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
Windows is a registered trademark of Microsoft Corporation. Other company, product, and service names may be trademarks or service marks of others.
**Education Support**

For information on educational and consulting services, contact the VisualAge® Smalltalk Group at vaweb@us.ibm.com.

Smalltalk education is available from VisualAge Smalltalk Business Partners:

- Knowledge Systems Corporation:
- Linea Engineering Incorporated:
- MicroDoc GmbH:
  [http://www.microdoc.de/microdocweb.nsf/academy_academy_home.htm](http://www.microdoc.de/microdocweb.nsf/academy_academy_home.htm)
- Synchrony Systems, Inc.:
  [http://sync-sys.com/training](http://sync-sys.com/training)

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

### Technical Information

**Hardware Requirements:** IBM mainframe, or compatible system, capable of running OS/390® or z/OS™.

**Software Requirements**

Host Configuration:

One of the following:

- OS/390 V2.10, or later (5647-A01)
- z/OS V1.1, or later (5694-A01)

Optional:

- IMS/ESA® Database Manager V6.1, or later, for VisualAge Smalltalk applications to use IMS™ databases
- IMS/ESA Transaction Manager V6.1, or later, for VisualAge Smalltalk applications to run on IMS
- CICS® Transaction Server V1.3, or later, for VisualAge Smalltalk applications to run on CICS
- DB2® for OS/390 V6.1, or later, for VisualAge Smalltalk applications to use DB2 databases
- MQSeries® V5.2, or later, for VisualAge Smalltalk applications to use MQSeries

Workstation configuration: VisualAge Smalltalk Enterprise, V6.0

**Compatibility:** VisualAge Smalltalk Server for OS/390 and z/OS, V6.0 is upward compatible with VisualAge for Smalltalk Server for OS/390, V4.5.

### Planning Information

**Packaging:** The VisualAge Smalltalk Server V6.0 package includes:

- Basic machine-readable material on the customer-selected distribution medium
- Program Directory (GI10-3231)
- License Program Specification (GC31-8943)

**Security, Auditability, and Control**

The announced program uses the security and auditability features of the host hardware or operating system 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

**New Licensees**

Orders for new licenses can be placed now. Shipment will not occur before availability date. Unless a later date is specified, orders entered before the planned availability date will be assigned a schedule date of one week following availability.

Shipment will begin on the planned availability date.

- Orders entered after the planned availability date will be assigned a schedule date for the week following order entry.
- Orders entered with a scheduled shipment date after planned availability will be shipped VisualAge Smalltalk for z/OS and OS/390, 5655-I04. Unless a later date is specified, an order is scheduled for the week following order entry.

New users of VisualAge Smalltalk for z/OS and OS/390 should specify:

- **Type:** 5655
- **Model:** I04

**Basic License**

**Entry Support License (ESL):** To order an ESL license, specify the program number, feature number 9001 for asset registration, and the applicable ESL one-time charge (OTC) feature number. Also specify the feature number of the distribution medium.

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ESL OTC Program Feature

VisualAge Smalltalk for z/OS and OS/390, V6.0

ESL machines can be determined by referring to the IBM Entry End User/390 Attachment (Z125-4379).

Parallel Sysplex® License Charge (PSLC) Basic License:
To order a basic license, specify the program number and feature number 9001 for asset registration. Specify the PSLC Base feature. If applicable, specify the PSLC Level A and PSLC Level B, and PSLC Level C, and PSLC Level D features and quantity.

If there is more than one program copy in a Parallel Sysplex, the charge for all copies is associated to one license by specifying the applicable PSLC feature numbers and quantity represented by the sum of the service units in millions (MSUs) in your Parallel Sysplex. For all other program copies, specify the PSLC No-Charge (NC) Identifier feature on the licenses.

Also, specify the feature number of the distribution medium.

<table>
<thead>
<tr>
<th>Machine MSU Capacity</th>
<th>PSLC Feature Number</th>
<th>PSLC Basic License MLC Feature Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0001</td>
<td>PSLC Base, 1 MSU</td>
</tr>
<tr>
<td>2</td>
<td>0002</td>
<td>PSLC Base, 2 MSUs</td>
</tr>
<tr>
<td>3</td>
<td>0003</td>
<td>PSLC Base, 3 MSUs</td>
</tr>
<tr>
<td>4—45</td>
<td>0004</td>
<td>PSLC Level A, 1 MSU</td>
</tr>
<tr>
<td>46—175</td>
<td>0005</td>
<td>PSLC Level A, 42 MSUs</td>
</tr>
<tr>
<td>176—315</td>
<td>0006</td>
<td>PSLC Level B, 1 MSU</td>
</tr>
<tr>
<td>316 or more</td>
<td>0007</td>
<td>PSLC Level B, 10 MSUs</td>
</tr>
<tr>
<td>NA</td>
<td>0008</td>
<td>PSLC Level B, 50 MSUs</td>
</tr>
<tr>
<td></td>
<td>0009</td>
<td>PSLC Level C, 1 MSU</td>
</tr>
<tr>
<td></td>
<td>0010</td>
<td>PSLC Level C, 10 MSUs</td>
</tr>
<tr>
<td></td>
<td>0011</td>
<td>PSLC Level C, 50 MSUs</td>
</tr>
<tr>
<td></td>
<td>0012</td>
<td>PSLC Level D, 1 MSU</td>
</tr>
<tr>
<td></td>
<td>0013</td>
<td>PSLC Level D, 50 MSUs</td>
</tr>
<tr>
<td></td>
<td>0014</td>
<td>PSLC NC Identifier</td>
</tr>
</tbody>
</table>

Example 1: For a single machine with 11 MSUs, the PSLC features would be:
- 0003 — quantity 1
- 0004 — quantity 8

Example 2: For two machines in a Parallel Sysplex, which have an aggregation of 60 MSUs, the PSLC features would be:
- PSLC chargeable license #1:
  - 0003 — quantity 1
  - 0005 — quantity 1
  - 0006 — quantity 5
  - 0007 — quantity 1
- PSLC no-charge license #2: 0014 — quantity 1

Workload License Charge (WLC) Basic License: To order a basic license, specify the program number and feature number 9001 for asset registration. Also, specify the feature number of the distribution medium.

Flat WLC (FWLC)

<table>
<thead>
<tr>
<th>Feature Description</th>
<th>Feature Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLC VisualAge Smalltalk V6.0 for z/OS and OS/390</td>
<td>0019</td>
</tr>
</tbody>
</table>

Growth Opportunity License Charge (GOLC): To order a GOLC software, specify the program number, feature number 9001 for asset registration, and the GOLC monthly charge feature number from the table below. Also, specify the feature number for the distribution medium.

<table>
<thead>
<tr>
<th>GOLC Category</th>
<th>Feature Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>H30</td>
<td>0016</td>
</tr>
<tr>
<td>H50</td>
<td>0017</td>
</tr>
<tr>
<td>H70</td>
<td>0018</td>
</tr>
</tbody>
</table>

IBM eServer™ zSeries Entry License Charge (zELC): To order zELC software, specify the program number, feature number 9001 for asset registration, and the zELC monthly charge feature number from the table below. Also, specify the feature number for the distribution medium.

<table>
<thead>
<tr>
<th>zELC Feature Number</th>
<th>z800 Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>0A1 — 1 engine</td>
<td>0020</td>
</tr>
<tr>
<td>0B1 — 1 engine</td>
<td>0021</td>
</tr>
<tr>
<td>0C1 — 1 engine</td>
<td>0022</td>
</tr>
<tr>
<td>001 — 1 engine</td>
<td>0023</td>
</tr>
<tr>
<td>0A2 — 2 engines</td>
<td>0024</td>
</tr>
<tr>
<td>002 — 2 engines</td>
<td>0025</td>
</tr>
<tr>
<td>003 — 3 engines</td>
<td>0026</td>
</tr>
<tr>
<td>004 — 4 engines</td>
<td>0027</td>
</tr>
</tbody>
</table>

Single Version Charging: To elect single version charging, notify and identify to IBM the previous and replacement programs and the designated machine the programs are operating on.

Basic Machine-Readable Material

<table>
<thead>
<tr>
<th>Feature Number</th>
<th>Distribution Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>5802</td>
<td>3480 Uncomp</td>
</tr>
<tr>
<td>6718</td>
<td>4 mm 2 GB Mod</td>
</tr>
<tr>
<td>5801</td>
<td>9/6250 DTR</td>
</tr>
</tbody>
</table>

Customization Options: Select the appropriate feature numbers to customize your order to specify the delivery options desired. These features can be specified on the initial or MES orders.
### Initial Shipments

<table>
<thead>
<tr>
<th>Description</th>
<th>Feature Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial number only (suppresses shipment of media and documentation)</td>
<td>3444</td>
</tr>
<tr>
<td>Ship media only (suppresses initial shipment of documentation)</td>
<td>3470</td>
</tr>
<tr>
<td>Ship documentation only (suppresses initial shipment of media)</td>
<td>3471</td>
</tr>
</tbody>
</table>

**Unlicensed Documentation:** A program directory and a copy of the following license program specification are automatically shipped with the basic machine-readable material:

<table>
<thead>
<tr>
<th>Title</th>
<th>Form Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>License Program Specification</td>
<td>GC31-8943</td>
</tr>
<tr>
<td>Program Directory</td>
<td>GI10-3231</td>
</tr>
</tbody>
</table>

**Source File Publications:** For the latest documents, visit:

http://www.ibm.com/software/ad/smalltalk

VisualAge Smalltalk V6.0 Server Guide is offered in source file form using Adobe Acrobat Reader. All unlicensed manuals are included as part of the basic machine-readable material.

Subsequent updates (technical newsletters or revisions between releases) to the publications shipped with the product will be distributed to the user of record for as long as a license for this software remains in effect. A separate publication order or subscription is not needed.

### Customized Offerings

Most product media is shipped only via Customized Offerings (CBPDO, ServerPac, SystemPac®). Non-customized items (CDs, diskettes, source media, media kits) will continue to be shipped via the stand-alone product.

### Terms and Conditions

**Licensing:** IBM Customer Agreement (ICA)

**Variable Charges Apply:** No

**Indexed Monthly License Charge (IMLC) Applies:** No

**Installation License or Location License Applies:** No

**Usage Restriction Applies:** No

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

**Replaced Program**

<table>
<thead>
<tr>
<th>Original Program</th>
<th>Replacement Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>VisualAge Smalltalk Server for OS/390, V4.5 (5655-B14)</td>
<td>VisualAge Smalltalk Server for z/OS and OS/390, V6 (5655-104)</td>
</tr>
</tbody>
</table>

**Volume Discount:** Not applicable