Software Announcement

IBM United States

October 24, 1995

IBM Smalltalk for OS/2, for AIX, and for Windows, Version 3 — With Significant Performance Improvements

IBM Smalltalk is a standards-compliant, integrated Smalltalk language and development environment that programmers can use to rapidly develop applications for the OS/2®, AIX®, and Windows† operating systems. IBM Smalltalk is a part of the same product family as VisualAge™,[1].

IBM Smalltalk is for customers who do object-oriented development directly with the Smalltalk language and development environment. This development can be with IBM Smalltalk only or in combination with VisualAge. Applications written in IBM Smalltalk are fully compatible with applications written with VisualAge and vice versa. Objects created with IBM Smalltalk can be reused without change in either offering.

There are separate products for OS/2, Windows, and AIX, and one server product that supports all three platforms:

- IBM Smalltalk Standard products are the entry-level, stand-alone products (separately orderable for OS/2 or Windows) for individual developers.
- IBM Smalltalk Professional products enable stand-alone development on OS/2 and Windows and team development on OS/2, AIX, or Windows (when used in combination with IBM Smalltalk Professional Server). The Professional products are separately orderable.
- IBM Smalltalk Professional Server is the server support for IBM Smalltalk Professional products and provides a centralized repository of classes for a team of developers. Support for each of the platforms (OS/2, AIX, or Windows) is available through a single IBM Smalltalk Professional Server license.

The following separately orderable products can be used with IBM Smalltalk:

- VisualAge for Smalltalk, Distributed for OS/2, for AIX, and for Windows, Version 3 (V3.0)
- VisualAge for Smalltalk, Communications/Transactions for OS/2, for AIX, and for Windows, V3.0
- VisualAge for Smalltalk, Database for ORACLE**, for OS/2, for AIX, and for Windows, V3.0

One-Time Charge

IBM Smalltalk Standard	$ 599
IBM Smalltalk Professional	1,399
IBM Smalltalk Professional Server	3,999

Planned Availability Date: November 30, 1995

® Registered trademark of International Business Machines Corporation
† Trademark of Microsoft Corporation
™ Trademark of International Business Machines Corporation
1 IBM's VisualAge products and services are not associated with or sponsored by Visual Edge Software, Ltd.
** Company, product, or service name may be a trademark or service mark of others.

IN BRIEF . . .

The IBM Smalltalk Version 3.0 base products include Version 2.0 functions, plus:

- Development and run-time support for AIX (requires IBM Smalltalk Professional Server)
- Significant performance improvements (run-time and development)
- New portable controls (notebook, container, slider, and spin button) for multiplatform support and portability
- Portable drag/drop support
- Enhanced database support for DB2® for OS/2 2.1, including support for user-defined functions (UDFs), user-defined types (UDTs) and binary large objects (BLOBs)

Separately available function includes:

- Distributed capability for OS/2, for AIX, and for Windows
- Message Queue Series (MQSeries™) and Remote Procedure Call (RPC) support
- Native support for Oracle databases

This announcement is provided for your information only. IBM's products can only be ordered under the terms and conditions of IBM's applicable agreements. For additional information, contact your IBM representative or the IBM Information Support Center at 800-426-3333.

IBM is a registered trademark of International Business Machines Corporation.

Description

Robust, Standards-Compliant Smalltalk Language

IBM Smalltalk is a pure object-oriented programming language that supports the object-oriented principles of polymorphism, data encapsulation, and inheritance. It includes an Smalltalk virtual machine, a base image, and general environment access, such as file, thread, and networking. IBM Smalltalk shields developers from complex and low-level functions, such as graphical user interface (GUI), communication application program interfaces (APIs), and memory management. This product is part of the same product family as VisualAge.

IBM Smalltalk is fully 32-bit capable and enforces Smalltalk language standards. The product includes a fully documented API based on industry standards, such as POSIX for filing systems and MOTIF for GUI widgets. The API is also based on the proposed common Smalltalk standards submitted to ANSI in 1993. Use of these standards provides major benefits to development teams:

- Enables IBM Smalltalk developers to use the same terminology and application protocols used in other languages
- Leverages a corporation's investment in standards training and documentation
- Allows developers who are familiar with industry standards, such as MOTIF, POSIX, and ANSI, to continue to use those skills

IBM Smalltalk supports the principle of change. It provides a development style of experimentation, providing a seamless integration between the development environment and the run-time environment. You can easily make a change in the code and immediately have the application up and running to see the effects of that change.

With IBM Smalltalk, you can take full advantage of the increasing power of the desktop and the advantages inherent to object-oriented technology, such as:

- Improved application availability, quality, and maintainability at reduced cost
- Extensive reuse of proven components that shortens development time and leads to more robust, error-free applications

Portability Across Supported Platforms

Developers can create applications fully portable across supported platforms without modification. The comprehensive class library in IBM Smalltalk facilitates code reuse and portability. This library is implemented across multiple operating system platforms. Programs written to these interfaces are portable across the support platforms without modification. The resulting ported applications take on the look and feel of the native platform.

Integrated Development Environment

IBM Smalltalk supports an iterative application development approach for dealing with mission-critical workstation applications. The integrated development environment improves application developer productivity by allowing programmers to rapidly develop object-oriented applications. Developers are able to write code, run it, debug it, and then repeat the process to quickly build applications — without ever leaving the Smalltalk environment. This capability allows developers to easily prototype applications, then work iteratively with end users to ensure applications meet requirements. By validating customer expectations throughout the development cycle, developers can reduce rework, maximize reuse, and increase customer satisfaction.

IBM Smalltalk eases the transition to object-oriented programming by providing a scalable and upgradeable application development environment that supports either a single, stand-alone programmer producing personal productivity applications or an entire team of programmers creating complex, line-of-business applications. The IBM Smalltalk integrated development environment includes:

- The Smalltalk language
- An object model that objects can be defined from
- A set of reusable parts
- A complete set of programming tools: editor, browser, compiler, debugger, inspector
- A run-time environment

Together, IBM Smalltalk Professional Server and IBM Smalltalk Professional allow development of large-scale applications by providing shared access and control of development data in a heterogeneous environment. The products enable a team of professional programmers to work on the same application simultaneously, managing applications, versions, and processes in an integrated fashion. IBM Smalltalk Professional can also be used by individual programmers. The product's integrated development environment includes the features of IBM Smalltalk Standard, plus:

- Team programming support
- A centralized code repository
- Version control
- Change management

The IBM Smalltalk Standard products and the IBM Smalltalk Professional products can be installed stand-alone. However, the Standard products cannot be installed as clients under the IBM Smalltalk Professional Server. Installing the Professional products under the IBM Smalltalk Professional Server provides team development support with a centralized repository of classes.

Each developer (whether in a stand-alone or team environment) must have either an IBM Smalltalk Professional license or an IBM Smalltalk Standard license. One license of IBM Smalltalk Professional Server is required for each team sharing a centralized repository of classes. The stand-alone developer may prefer IBM Smalltalk Professional over IBM Smalltalk Standard since IBM Smalltalk Professional provides advanced function such as version control and configuration management.

Additional Function

IBM Smalltalk, V3.0 will provide native platform development and execution support for Windows NT and Windows 95. IBM is completing compatibility testing on NT and Win95 and will enter beta test in the first quarter of 1996. This support will enable users of IBM Smalltalk for Windows, V3.0 to develop and deploy applications on Windows NT and Windows 95.

IBM will expand the UNIX® support of the IBM Smalltalk products to enable users to develop and deploy applications on HP** UNIX. IBM Smalltalk for HP will enter beta test in the second quarter of 1996.

IBM will continue to extend the IBM Smalltalk family through the enterprise with IBM Smalltalk for MVS. IBM

Smalltalk for MVS takes the benefits of object-oriented technology and the Smalltalk programming language to MVS. This new capability will enable you to develop, test, and debug Smalltalk programs on OS/2 and then package and deploy them on MVS under IMS™ and CICS™. Development can be either connected to or disconnected from MVS. The portability of the Smalltalk language extends to MVS. IBM Smalltalk for MVS will include IMS/TM and CICS support and access to DB2, IMS/DB, and VSAM through CICS File Control. IBM Smalltalk for MVS will enter beta test in first half 1996.

Open Enterprise

The IBM Smalltalk Version 3.0 products support the Motif and POSIX PC industry standards.

Product Positioning

Smalltalk is an important and emerging object-oriented language in the industry. Its usage in business and commercial application development is growing rapidly. IBM believes strongly in the future of object-oriented technology. IBM Smalltalk is a strategic language for IBM and is developed as an ANSI standard, open, multiple-platform language.

IBM Smalltalk is part of the same product family as VisualAge. The VisualAge environment includes IBM Smalltalk as its base language, but offers additional features, such as visual construction-from-parts, ready-built visual components, and preexisting code access. IBM Smalltalk targets customers who want to do object-oriented development directly with the Smalltalk language and development environment. This development may be with IBM Smalltalk only, or in combination with VisualAge. Class libraries developed using IBM Smalltalk can be reused in the VisualAge development environment. The wealth of class libraries already developed and available in VisualAge can be used by IBM Smalltalk programmers.

The following VisualAge components can be used with IBM Smalltalk:

- VisualAge for Smalltalk, Communications/ Transactions for OS/2, for AIX, and for Windows, Version 3.0.

  The communications and transaction component supports a wide range of communication and transaction protocols, including TCP/IP, APPC, CPI-C, NetBIOS, EHLLAPI, MQSeries, RPC, and CICS ECI. This support is most applicable to line-of-business (LOB) computing.

- VisualAge for Smalltalk, Database for ORACLE for OS/2, for AIX and for Windows, Version 3.0.

  The support for access to Oracle databases through native API provides Oracle database access in a manner consistent with IBM Smalltalk database componentry and usage.

- VisualAge for Smalltalk, Distributed for OS/2, for AIX and for Windows, Version 3.0.

  The distributed component provides the capability to develop an IBM Smalltalk application on a single development platform and split the logic of the application to run on multiple execution platforms. Facilities are provided for remote debugging, performance profiling for optimal distribution, and for other features that complement the development environment. This component is complementary to existing SOM/DSOM support.

Publications

The following publications can be ordered through PUBORDER or your IBM representative.

Title	Order Number
Introduction to Object-Oriented Programming with IBM Smalltalk, Version 3.0	SC34-4491
IBM Smalltalk User's Guide, Version 3.0	SC34-4536
IBM Smalltalk Programmer's Reference, Version 3.0	SC34-4493

Displayable Softcopy Publications: The publications listed below are offered in displayable softcopy form. All unlicensed manuals are included. The displayable manuals are part of the basic machine-readable material. The files are shipped on the same media type as the basic machine-readable CD-ROM.

- Introduction to Object-Oriented Programming with IBM Smalltalk, Version 3.0
- IBM Smalltalk User's Guide, Version 3.0
- IBM Smalltalk Programmer's Reference, Version 3.0
- IBM Smalltalk Catalog of classes, Version 3.0

Also, these displayable manuals can be used with the BookManager® READ licensed programs in any of the supported environments. A Library Reader™ is included with the program product. Terms and conditions for use of the machine-readable files are shipped with the files.

Education Support

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

The appropriate curriculum will be updated, as necessary, to include the enhancements described in this announcement.

Details of the education support will be provided by November 30, 1995, through separate education announcements.

Training is available from IBM and other leading object-oriented companies.

IBM Education

- Object-Oriented Application Development — The full life-cycle
  - Course Code: N1936
  - Duration: Five days
  - Private classes available: Yes
  - Contact: 800-IBM-TEACH (426-8322)

  This course teaches students all aspects of the object-oriented application development life-cycle. By combining teaching of theory and extensive hands-on training, this course offers the students enough practical experience in object-oriented concepts and techniques and in object-oriented analysis, design, and implementation activities to

allow them to develop small but nontrivial applications using IBM Smalltalk and VisualAge for Smalltalk.

The course presents a first introduction to the most important aspects of object-oriented application development and object-oriented technology in general.

Besides teaching and hands-on training, this course also provides the students extensive advice on how to best use the techniques and on how to set up an object-oriented application development process.

- Team Development with VisualAge for Smalltalk and IBM Smalltalk

  - Course Code: N1945
  - Duration: Two days
  - Contact: 800-IBM-TEACH (426-8322)

  This course covers team programming support provided by IBM Smalltalk Professional. It enables participants to identify applications and subapplications for a given project. Determination and assignment of specific roles in a team and project administration are other central issues of the course.

- Introduction to Object-Oriented Programming in IBM Smalltalk

  - Course Code: N1816
  - Duration: Five days
  - Contact: 800-IBM-TEACH (426-8322)

  This course is for analysts and programmers who will be responsible for supplying new parts for IBM Smalltalk applications and for their technical managers who want to understand the basics of object-oriented programming in IBM Smalltalk. Students learn the basics of the Smalltalk programming language as it applies to writing scripts and creating parts for use with IBM Smalltalk.

- Advanced Object-Oriented Programming in IBM Smalltalk

  - Course Code: N1817
  - Duration: Five days
  - Private classes available: Yes
  - Contact: 800-IBM-TEACH (426-8322)

  This course is for technical staff involved in IBM Smalltalk programming and VisualAge part library development. This course provides the student with intermediate to advance level expertise in IBM Smalltalk programming. Advanced topics in the IBM Smalltalk programming environment are examined as they apply to creating new parts for use in VisualAge for Smalltalk applications. On-site education is also available.

Additional Education

Other leading third-party, object-oriented companies have developed education offerings for VisualAge for Smalltalk and IBM Smalltalk.

- Bridging from Smalltalk/V to IBM Smalltalk and VisualAge for Smalltalk

  - Source: Knowledge Systems Corporation
  - Course Code: N1820
  - Duration: Three days
  - Contact: 800-IBM-TEACH (426-8322)

  This course is for analysts and programmers who currently use Smalltalk/V but need to make a rapid transition to either the IBM Smalltalk programming environment or the VisualAge for Smalltalk environment as a parts developer.

- Bridging from VisualWorks to IBM Smalltalk and VisualAge for Smalltalk

  - Source: Knowledge Systems Corporation
  - Course Code: N1819
  - Duration: Three days
  - Contact: 800-IBM-TEACH (426-8322)

  This course is for analysts and programmers who currently use VisualWorks but need to make a rapid transition to either the IBM Smalltalk programming environment or the VisualAge for Smalltalk environment as a parts developer.

Courses provided by third-party companies are subject to the terms and conditions of those companies.

IBM Smalltalk and VisualAge Resource Catalog

This catalog, published quarterly by IBM, contains information on complementary products, consulting services, education, and support from IBM and from other providers around the world.

For a copy of the catalog and future updates, call 800-IBM-2279 (426-2279) or 919-254-4760.

Technical Information

Specified Operating Environment

Hardware Requirements: The following sections describe the minimum machine requirements for valid operating environments for the IBM Smalltalk Standard, IBM Smalltalk Professional, and IBM Smalltalk Professional Server family of products.

IBM Smalltalk Standard for OS/2, V3.0

- 33MHz Intel** 80486 IBM or IBM-compatible personal computer (PC) system
- 24MB installed RAM. If you are running other products that provide database or communications services, 32MB of installed RAM are recommended.
- CD-ROM reader (required for installation)
- 35MB hard disk space for installed product. An additional 10MB of hard disk space is required if SOMobjects Base Toolkit is also installed.
- 20MB hard disk space for OS/2 swapper file
- VGA graphics monitor. An XGA® or SVGA display system with a minimum resolution of 1024 x 768 pels is recommended.
- Mouse

IBM Smalltalk Standard for Windows, V3.0

- 33MHz Intel 80486 IBM or IBM-compatible PC system
- 24MB installed RAM. If you are running other products that provide database or communications services, 32MB installed RAM are recommended.
- CD-ROM reader (required for installation)
- 35MB hard disk space for installed product. Additional hard disk space is required for certain options.

- 20MB hard disk space for swapper file
- VGA graphics monitor. An XGA or SVGA display system with a minimum resolution of 1024 x 768 pels is recommended.
- Mouse

IBM Smalltalk Professional for OS/2, V3.0

- 33MHz Intel 80486 IBM or IBM-compatible PC system
- 24MB installed RAM
- CD-ROM reader
- 25MB hard disk space for the installed client. Additional hard disk space is required for certain options:
  - An additional 10MB if SOMobjects Base Toolkit is installed
  - An additional 85MB (with additional disk space required for growth of the central library) if a local manager is installed on the client
- 20MB hard disk space for OS/2 swapper file
- VGA graphics monitor. An XGA or SVGA display system with a minimum resolution of 1024 x 768 pels is recommended.
- Mouse

IBM Smalltalk Professional for AIX, V3.0

- RISC System/6000® uniprocessor POWERstation™ or POWERserver™ (including those with PowerPC™ card), or equivalent
- 64MB installed RAM
- CD-ROM reader
- 25MB hard disk space for installed product on client workstations. An additional 10MB of hard disk space is required if SOMobjects Base Toolkit is also installed.
- 200MB free disk space for paging space
- Color display supporting X-Window System Version 11 Release 5 and OSF/Motif Version 1.2

  The display must support:
  - Minimum colors: 256
  - Depth: 8 planes
  - Bits in color: 8 bits
  - Dimensions: 1280 x 1024 pixels
  - Resolution: 91 x 92 dots per inch
  - Minimum video adaptor memory: 1MB
- Mouse

IBM Smalltalk Professional for Windows, V3.0

- 33MHz Intel 80486 IBM or IBM-compatible PC system
- 24MB installed RAM
- CD-ROM reader
- 25MB of hard disk space for the installed client. An additional 85MB of hard disk space is required (with additional disk space required for growth of the central library) if a local manager is installed on the client.
- 20MB hard disk space for swapper file
- VGA graphics monitor. An XGA or SVGA display system with a minimum resolution of 1024 x 768 pels is recommended.
- Mouse

IBM Smalltalk Professional Server for OS/2, for AIX, and for Windows, V3.0

- For Windows or OS/2
  - 33MHz Intel 80486 IBM or IBM-compatible PC system
  - 24MB installed RAM
  - CD-ROM reader
  - 85MB hard disk space for installed product, with additional disk space required for growth of the central library
- For AIX
  - RISC System/6000 uniprocessor POWERstation or POWERserver (including those with PowerPC card) or equivalent
  - 64MB installed RAM
  - CD-ROM reader
  - 85MB hard disk space for installed product, with additional disk space required for growth of the central library

Application Run-Time Environment

- 33MHz Intel 80386 IBM or IBM-compatible PC system
- 8MB to 12MB installed RAM for a typical application; however, installed RAM and hard disk space depend on the size and run-time requirements of the packaged application.
- VGA graphics monitor

Software Requirements: The following sections describe the minimum program requirements for valid operating environments for the IBM Smalltalk Standard, IBM Smalltalk Professional and IBM Smalltalk Professional Server family of products.

IBM Smalltalk Standard for OS/2, V3.0

- OS/2 Warp Version 3.0
- For local database support:
  - DATABASE 2™ OS/2 (DB2/2™) Version 1.2
  - DB2/2 Version 2.1
- For remote database support only:
  - Client Application Enabler/2 Version 1.2
  - Client Application Enabler for OS/2 Version 2.1
- For host (DB2, SQL/DS™(*), or SQL/400®(*)) database access: DDCS for OS/2 Version 2.3
- To use the SOMsupport component: SOMobjects Base Toolkit, Version 2.1 for OS/2, CSD Level SM21002, or later (supplied with the product), or SOMobjects Developer Toolkit, Version 2.1 for OS/2, CSD Level SM21002, or later.
- For Distributed SOM (DSOM) network access to objects: SOMobjects Workgroup Enabler, Version 2.1 for OS/2 (with its prerequisites)

IBM Smalltalk Standard for Windows, V3.0

- Microsoft** DOS, Version 6.0, or later. IBM PC-DOS Version 7.0 is recommended for better performance.
- Microsoft Windows, Version 3.11 (enhanced mode)
- For remote database support:
  - Client Application Enabler/DOS Version 1.2
  - Client Application Enabler for Windows Version 2.1
- For host (DB2, SQL/DS, or SQL/400) database access: DDCS/2 for OS/2 Version 2.3

IBM Smalltalk Professional for OS/2, V3.0

- OS/2 Warp Version 3.0
- For LAN workgroup connectivity, one of the following:
  - OS/2 LAN Server Version 3.0, or later, and LAN Transport Protocol Support (LAPS) component of Network Transport Services/2 (NTS/2)
  - Novell** NetWare** Version 3.11, or later
  - FTP TCP/IP for OS/2 Version 3.0 or IBM TCP/IP for OS/2 Version 2.0 with CSDs UN56401, UN57064, and UN60005.
- For local database support: DATABASE 2 OS/2 (DB2/2), Version 1.2 or Version 2.1
- For remote database support only: Client Application Enabler/2, Version 1.2 Client Application Enabler for OS/2 Version 2.1
- For host (DB2, SQL/DS, or SQL/400) database access: DDCS/2 Version 3.0
- To use the SOMsupport component: SOMobjects Base Toolkit Version 2.1 for OS/2, CSD level SM21002, or later (supplied with the product), or SOMobjects Developer Toolkit Version 2.1 for OS/2
- For DSOM network access to objects: SOMobjects Workgroup Enabler Version 2.1 for OS/2 (with its prerequisites)

IBM Smalltalk Professional for AIX, V3.0

- AIX Version 4.1.3
- IBM Smalltalk Professional Server for OS/2, for AIX, and for Windows, V3.0
- For local database support: DATABASE 2 AIX (DB2/6000™), Version 1.2 or Version 2.1
- For remote database support only: Client Application Enabler/6000 (CAE/6000), Version 1.2 or Version 2.1
- For host (DB2, SQL/DS, or SQL/400) database access: DDCS Version 3.0
- To use the SOMsupport component: SOMobjects Base Toolkit Version 2.1.0.2 for AIX (supplied with the product) or SOMobjects Developer Toolkit Version 2.1.0.2 for AIX
- For Distributed SOM (DSOM) network access to objects: SOMobjects Workgroup Enabler Version 2.1 for AIX (with its prerequisites)

IBM Smalltalk Professional For Windows, V3.0

- Microsoft DOS Version 6.0, or later. IBM PC-DOS Version 7.0 is recommended for better performance.
- Microsoft Windows Version 3.11 (enhanced mode)
- For LAN workgroup connectivity, one of the following:
  - OS/2 LAN Server Version 3.0, or later, and IBM LAN Support Program Version 1.3
  - Novell NetWare Version 3.11, or later
  - FTP TCP/IP for DOS Version 3.0 or IBM TCP/IP for DOS Version 2.1.1.2.
- For remote database support: Client Application Enabler/DOS, Version 1.2 or Client Application Enabler for Windows Version 2.1
- For host (DB2, SQL/DS, or SQL/400) database access: DDCS/2 Version 3.0

IBM Smalltalk Professional Server for OS/2, for AIX, and for Windows, V3.0

- For OS/2
  - OS/2 Warp Version 3.0
  - IBM Smalltalk Professional for OS/2, V3.0
  - For LAN workgroup connectivity, one of the following:
    - OS/2 LAN Server Version 3.0, or later, and LAPS component of NTS/2
    - Novell NetWare Version 3.11, or later
- For AIX
  - AIX Version 4.1.3
  - IBM Smalltalk Professional for AIX, V3.0
- For Windows
  - Microsoft DOS Version 6.0, or later. IBM PC-DOS Version 7.0 is recommended for better performance.
  - Microsoft Windows Version 3.11 (enhanced mode)
  - IBM Smalltalk Professional for Windows, V3.0
  - For LAN workgroup connectivity, one of the following:
    - OS/2 LAN Server Version 3.0, or later, and IBM LAN Support Program Version 1.3
    - Novell NetWare Version 3.11, or later

Application Run-Time Environment

Applications developed with IBM Smalltalk Standard or IBM Smalltalk Professional run under OS/2 Warp Version 3.0, Microsoft Windows Version 3.11, or AIX 4.1.3. Other program requirements vary based on the use of database, communications, transactions, and SOM/DSOM.

Compatibility: Migration from Version 2.0 of IBM Smalltalk to Version 3.0 is a simple process that requires, in most cases, no additional coding.

Planning Information

Customer Responsibilities: Customers creating Windows-based applications for redistribution require a license from Microsoft in order to redistribute Win32s DLLs (dynamic link libraries).

Packaging: All programs are distributed on CD-ROM only.

The following publications are provided only on the base product program media:

- Introduction to Object-Oriented Programming with IBM Smalltalk, Version 3.0
- IBM Smalltalk User's Guide, Version 3.0
- IBM Smalltalk Programmer's Reference, Version 3.0
- IBM Smalltalk Catalog of Classes, Version 3.0

Each of the following base programs is distributed in a separate package:

- IBM Smalltalk Standard for OS/2, Version 3.0
- IBM Smalltalk Professional for OS/2, Version 3.0
- IBM Smalltalk Standard for Windows, Version 3.0
- IBM Smalltalk Professional for Windows, Version 3.0
- IBM Smalltalk Professional for AIX, Version 3.0
- IBM Smalltalk Professional Server for OS/2, for AIX, and for Windows Version 3.0

Each package contains:

- IBM International Program Licensing Agreement and License Information on CD-ROM
- Registration and Proof of Purchase card
- Three CD-ROMs
- Introduction to Object-Oriented Programming with IBM Smalltalk, Version 3.0
- IBM Smalltalk User's Guide, Version 3.0
- IBM Smalltalk Programmer's Reference, Version 3.0

Additional Function Separately Orderable as Program Products: The documentation and code for these products is on the base program product media. The product key provided when the additional function is ordered is applied against the base product CD-ROM to unlock the additional function.

- VisualAge for Smalltalk, Communications/ Transactions for OS/2, for AIX, and for Windows, Version 3.0
- VisualAge for Smalltalk, Database for ORACLE for OS/2, for AIX, and for Windows, Version 3.0
- VisualAge for Smalltalk, Distributed for OS/2, for AIX, and for Windows, Version 3.0

Each package contains:

- Registration and Proof of Purchase card
- Product key

The separately orderable VisualAge for Smalltalk Documentation Set, V3.0 includes:

- VisualAge for Smalltalk, Getting Started, Version 3.0
- VisualAge for Smalltalk, User's Guide, Version 3.0
- VisualAge for Smalltalk, User's Reference, Version 3.0
- VisualAge for Smalltalk, Programmer's Guide to Building Parts for Fun and Profit, Version 3.0
- IBM Smalltalk User's Guide and Reference, Version 3.0
- Introduction to Object-Oriented Programming with IBM Smalltalk, Version 3.0
- IBM Smalltalk Programmer's Reference, Version 3.0

Security, Auditability, and Control

IBM Smalltalk Standard and IBM Smalltalk Professional use the security and auditability features of the development platform. IBM Smalltalk logs all changes in a source change log. IBM Smalltalk Professional, in addition to logging source changes, captures change management and versioning information in a source code repository that can reside on the client machine or, if used in combination with IBM Smalltalk Professional, shared within a network.

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

Ordering Information

Orders for new licenses will be accepted now.

Shipments will begin on November 30, 1995.

To order, specify the order type number, feature number, part number, program name, media, and quantity.

Program Package: Program media (CD-ROM) with documentation.

Program Name	Feature Number	Part Number
Order Type 5801-AAR		
IBM Smalltalk Standard for OS/2, V3.0	0701	62H8100
IBM Smalltalk Professional for OS/2, V3.0	0703	62H8120
IBM Smalltalk Standard for Windows, V3.0	0702	62H8110
IBM Smalltalk Professional for Windows, V3.0	0704	62H8130
IBM Smalltalk Professional for AIX, V3.0	0705	62H8140
IBM Smalltalk Professional Server, V3.0	0706	62H8150

Additional License Copies: Authorizes the customer who has a program package to make a single copy of the program media and printed documentation.

The authorization is given by providing the customer a Proof of Entitlement for Additional License — with Certificate, which has its own part number and feature number.

Additional License Copies — Software Advantage Exhibit: Authorization to make additional license copies begins on the start date specified in the Software Advantage Agreement. Proof of Entitlement will be provided monthly.

Program Name	Part Number
IBM Smalltalk Standard for OS/2, V3.0 Proof of Additional License without Certificate	62H8103
IBM Smalltalk Professional for OS/2, V3.0 Proof of Additional License without Certificate	62H8123

Program Name	Part Number
IBM Smalltalk Standard for Windows, V3.0 Proof of Additional License without Certificate	62H8113
IBM Smalltalk Professional for Windows, V3.0 Proof of Additional License without Certificate	62H8133
IBM Smalltalk Professional for AIX, V3.0 Proof of Additional License without Certificate	62H8143
IBM Smalltalk Professional Server, V3.0 Proof of Additional License without Certificate	62H8153

Documentation: Separate documentation with no media.

Program Package Upgrade: Program media (CD-ROM) with documentation.

Program Name	Feature Number	Part Number
Order Type 5803-AAR		
IBM Smalltalk Standard for OS/2, V3.0 Version-to-Version Upgrade	0184	62H8101
IBM Smalltalk Professional for OS/2, V3.0 Version-to-Version Upgrade	0186	62H8121
IBM Smalltalk Standard for Windows, V3.0 Version-to-Version Upgrade	0185	62H8111
IBM Smalltalk Professional for Windows, V3.0 Version-to-Version Upgrade	0187	62H8131
IBM Smalltalk Professional for AIX, V3.0 Version-to-Version Upgrade	0188	62H8141
IBM Smalltalk Professional Server, V3.0 Version-to-Version Upgrade	0189	62H8151
IBM Smalltalk Professional for OS/2, V3.0 Standard to Professional Upgrade	0190	62H8122
IBM Smalltalk Professional for Windows, V3.0 Standard to Professional Upgrade	0191	62H8132
IBM Smalltalk Professional for AIX, V3.0 Standard to Professional Upgrade	0192	62H8142

Additional License Copy Upgrade: Authorizes the customer who has a program package upgrade to make a single copy of the program media and printed documentation.

The authorization is given by providing the customer a Proof of Entitlement for Additional License — with Certificate, which has its own part number and feature number.

Additional License Copy Upgrade — Software Advantage Exhibit: Authorization to make additional license copies begins on the start date specified in the Software Advantage Agreement. Proof of Entitlement will be provided monthly.

Program Name	Part Number
Order Type 5804-AAR	
IBM Smalltalk, Standard for OS/2, V3.0 Proof of Additional License Without Certificate Upgrade	62H8108
IBM Smalltalk, Standard for Windows, V3.0 Proof of Additional License without Certificate Upgrade	62H8118
IBM Smalltalk, Professional for OS/2, V3.0 Proof of Additional License without Certificate Upgrade	62H8128
IBM Smalltalk, Professional for Windows, V3.0 Proof of Additional License without Certificate Upgrade	62H8138
IBM Smalltalk, Professional for AIX, V3.0 Proof of Additional License without Certificate Upgrade	62H8148
IBM Smalltalk, Professional Server, V3.0 Proof of Additional License without Certificate Upgrade	62H8158

Upgrade Protection (New Product): The following Upgrade Protection products are only available under the Software Advantage for Workstations offering:

Program Name	Part Number
Order Type 5809-AAR	
Upgrade Protection for IBM Smalltalk Standard for OS/2 V3.0 — One-Time Charge (OTC)	62H8105
Upgrade Protection for IBM Smalltalk Standard for OS/2 V3.0 — Quarterly Charge (QC)	62H8104
Upgrade Protection for IBM Smalltalk Standard for Windows V3.0 — OTC	62H8115
Upgrade Protection for IBM Smalltalk Standard for Windows V3.0 — QC	62H8114

Program Name	Part Number
Upgrade Protection for IBM Smalltalk Professional for OS/2 V3.0 — OTC	62H8125
Upgrade Protection for IBM Smalltalk Professional for OS/2 V3.0 — QC	62H8124
Upgrade Protection for IBM Smalltalk Professional for Windows V3.0 — OTC	62H8135
Upgrade Protection for IBM Smalltalk Professional for Windows V3.0 — QC	62H8134
Upgrade Protection for IBM Smalltalk Professional for AIX V3.0 — OTC	62H8145
Upgrade Protection for IBM Smalltalk Professional for AIX V3.0 — QC	62H8144
Upgrade Protection for IBM Smalltalk Professional Server V3.0 — OTC	62H8155
Upgrade Protection for IBM Smalltalk Professional Server V3.0 — QC	62H8154

Upgrade Protection (Entitled Customers): Customers who have previously acquired any of the Software Advantage Upgrade Protection part numbers listed below automatically receive corresponding Entitled Upgrade part numbers shortly after planned availability.

Upgrade Protection Part Number	Entitled Upgrade Part Number
33H6999 or 33H7186	62H8101
33H7000 or 33H7187	62H8111
33H6997 or 33H7184	62H8121
33H6998 or 33H7185	62H8131
33H6997, 33H7184, 33H6998, or 33H7185	62H8141
33H6997, 33H7184, 33H6998, or 33H7185	62H8151

Program Upgrade

The version-to-version program package upgrade option allows currently licensed users of a Version 2.0 IBM Smalltalk Standard product to obtain a Version 3.0 Standard product, or a currently licensed user of a Version 2.0 IBM Smalltalk Team product to obtain a Version 3.0 Professional product and a Version 3.0 Professional Server product, for a program upgrade charge.

In addition to the version-to-version upgrade, the IBM Smalltalk Standard-to-Professional program package upgrade option allows currently licensed users of any Version 2.0 IBM Smalltalk Standard product to obtain a Version 3.0 Professional product for a program upgrade charge. The Version 3.0 Professional product can be used in a stand-alone or in a team programming (networked) environment. If you want to move from a Version 2.0 stand-alone environment to a Version 3.0 team programming environment, at least one IBM Smalltalk Professional, Server must also be licensed.

The program upgrade to IBM Smalltalk, Version 3.0 will be available November 30, 1995. Orders will be accepted after October 24, 1995. These upgrades will be available through IBM Authorized Personal Computer Dealers and Industry Remarketers — Personal Computers certified to market IBM Authorized Advanced Products. The remarketer will require a Proof of License for each upgrade ordered. The original Proof of License is the colored front cover page (inside the hard binder) or the separate Proof of License page in the program package, as identified by IBM to the remarketer.

Customers can also order upgrades through the local IBM office using the IBM Personal Computer/System Program Upgrade and Certification Order Form included with this announcement. The total quantity of upgrades acquired for a specific program cannot exceed the total quantity of program packages and/or additional licenses previously acquired for that program. Proof of License for upgrade eligibility for additional license upgrades is a copy of this invoice or previously acquired Proof of Entitlement for Additional License — with Certificate. Additional license upgrades can be entered through the local IBM office using the Upgrade and Certification Order Form or ordered through an authorized remarketer.

Terms and Conditions

Licensing: The programs described in this announcement are licensed under the terms and conditions of the IBM International Program License Agreement. A copy of the agreement is included in the program package, on the CD-ROM.

Additional License: Proof of Entitlement must be acquired.

Software Advantage for Workstations-Upgrade Protection: The announced programs are eligible as entitled upgrades. Entitled customers will be provided with a no-charge program package and a Proof of Entitlement authorizing right to copy equal to the number of programs protected. Shipment will follow planned availability.

Limited Warranty: Programs acquired by the customer during the program services period will have a one-year limited warranty, but will not extend past May 15, 1997.

Program Services: Program services will be available until May 15, 1997. The statement of service included with the program describes this service. Customers requiring service should call 800-237-5511.

Support Line: For PC-based products, the Personal Systems Support Line applies. For RISC System/6000-based products, the AIX Systems Support Line applies.

Getting Started Period: For PC-based products, a 60-day, “getting started” period is provided by the Personal Systems Support Line for the first license within a site, location, or centralized help desk. The 60-day period begins with the first call to the support line. For RISC System/6000-based products, a 60-day, getting started period is provided by the AIX Support Line for the first installation in an enterprise. The 60-day period begins with the first call to the support line.

Volume Orders: For information regarding volume orders, contact your IBM representative.

The additional licenses and additional license upgrades included in this announcement are eligible for volume discounting under the terms of the Software Advantage for Workstations agreement and exhibit.

Authorization for Copy and Use on Home/Portable Computer: Yes

Program Transfer: Fully transferable

Educational Allowance: A reduced charge is available to qualified education customers. The educational allowance may not be added to any other discount or allowance.

Charges

Program Name	Program Number	OTC	Upgrade Protection Charge
IBM Smalltalk Standard for OS/2, V3.0			
Program Package	62H8100	$ 599	
Additional License without Certificate	62H8103	539	
Program Package Upgrade — Version-to-Version	62H8101	149	
Additional License without Certificate Upgrade	62H8108	135	
Upgrade Protection — OTC	62H8105		$162.00
Upgrade Protection — QC	62H8104		20.25
IBM Smalltalk Standard for Windows, V3.0			
Program Package	62H8110	599	
Additional License without Certificate	62H8113	539	
Program Package Upgrade — Version-to-Version	62H8111	149	
Additional License without Certificate Upgrade	62H8118	135	
Upgrade Protection — OTC	62H8115		162.00
Upgrade Protection — QC	62H8114		20.25
IBM Smalltalk Professional for OS/2, V3.0			
Program Package	62H8120	1,399	
Additional License without Certificate	62H8123	1,249	
Program Package Upgrade — Version-to-Version	62H8121	349	
Program Package Upgrade — Standard to Professional	62H8122	599	
Additional License without Certificate Upgrade	62H8128	309	
Upgrade Protection — OTC	62H8125		375.00
Upgrade Protection — QC	62H8124		46.88
IBM Smalltalk Professional for Windows, V3.0			
Program Package	62H8130	$1,399	
Additional License without Certificate	62H8133	1,249	
Program Package Upgrade — Version-to-Version	62H8131	349	
Program Package Upgrade — Standard to Professional	62H8132	599	
Additional License without Certificate Upgrade	62H8138	309	
Upgrade Protection — OTC	62H8135		$ 375.00
Upgrade Protection — QC	62H8134		46.88
IBM Smalltalk Professional for AIX, V3.0			
Program Package	62H8140	1,399	
Additional License without Certificate	62H8143	1,249	
Program Package Upgrade — Version-to-Version	62H8141	349	
Program Package Upgrade — Standard to Professional	62H8142	599	
Additional License without Certificate Upgrade	62H8148	309	
Upgrade Protection — OTC	62H8145		375.00
Upgrade Protection — QC	62H8144		46.88
IBM Smalltalk Professional Server for OS/2, for AIX, and for Windows, V3.0			
Program Package	62H8150	3,999	
Additional License without Certificate	62H8153	3,599	
Program Package Upgrade — Version-to-Version	62H8151	999	
Additional License without Certificate Upgrade	62H8158	899	
Upgrade Protection — OTC	62H8155		1,080.00
Upgrade Protection — QC	62H8154		135.00

Optional Support Line Charge: $2,495

Additional Licenses Charge: Customers who pay an OTC for additional licenses may copy machine-readable program materials and printed documentation previously acquired from IBM in a program package. One copy may be made for each additional license ordered.

Upgrade Protection: Customers who acquire Upgrade Protection through an OTC or quarterly payment charges (when meeting minimum revenue criteria) will be entitled at no charge to future versions and releases when announced within their Software Advantage agreement period. Following availability of the new program, IBM will provide a program package (including media and documentation) and a Proof of Entitlement authorizing

right to copy, distribute, and install equal to the number of programs protected.

Program Upgrade Charge: A program upgrade charge will apply for the two upgrade options available for IBM Smalltalk. Customers who want to upgrade to the IBM Smalltalk Version 3.0 team development environment must license both the IBM Smalltalk Professional and IBM Smalltalk Professional Server products. A license to any IBM Smalltalk Team, Version 2.0 product entitles the customer to an upgrade to one of the IBM Smalltalk Version 3.0 Professional products and one IBM Smalltalk Version 3.0 Professional Server.

- Version-to-Version Upgrade
  - Customers who have IBM Smalltalk Version 2.0 can upgrade to the equivalent Version 3.0 product. For example, a customer who has Version 2.0 standard can upgrade to Version 3.0 Standard. A customer who has Version 2.0 Team can upgrade to Version 3.0 Professional and Professional Server.
  - Cross-platform upgrades are acceptable.
- Standard-to-Professional Upgrade
  - Customers who have IBM Smalltalk standard Version 2.0, can upgrade to IBM Smalltalk Professional, Version 3.0. For example, a customer who has IBM Smalltalk standard for OS/2, Version 2.0, can upgrade to IBM Smalltalk Professional for OS/2, Version 3.0 or IBM Smalltalk Professional for Windows, Version 3.0. If the customer wants to move from a Version 2.0 stand-alone environment to a Version 3.0 team programming (networked) environment, then at least one license to the IBM Smalltalk Professional Server product is required in addition to the appropriate number of IBM Smalltalk Professional licenses.
  - Cross-platform upgrades are acceptable.

The following are examples of some of the available upgrades:

Version-to-Version Upgrade

From	**To**
IBM Smalltalk standard for OS/2, V2.0	IBM Smalltalk Standard for OS/2, V3.0
-or-	-or-
IBM Smalltalk standard for Windows, V2.0	IBM Smalltalk Standard for Windows, V3.0

From	**To**
IBM Smalltalk Team for OS/2, V2.0	IBM Smalltalk Professional for OS/2, V3.0
-or-	-and-
IBM Smalltalk Team for Windows, V2.0	IBM Smalltalk Professional Server for OS/2, for AIX, and for Windows, V3.0
	-or-
	IBM Smalltalk Professional for Windows, V3.0
	-and-
	IBM Smalltalk Professional Server for OS/2, for AIX, and for Windows, V3.0

Standard-to-Professional Upgrade

From	**To**
IBM Smalltalk Standard for OS/2, V2.0 or V3.0	IBM Smalltalk Professional for OS/2, V3.0
-or-	-or-
IBM Smalltalk Standard for Windows, V2.0 or V3.0	IBM Smalltalk Professional for Windows, V3.0

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