

IBM 4690 OS V6.2 extends your POS with enhanced mode and power management

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At a glance

IBM® 4690 V6.2 provides the following new functions:

- **Enhanced terminal mode:** Unlocks the 4690 V6 terminal, accelerates hardware support, and provides the latest Java[™] runtime and tooling
- **Deep sleep support:** Dramatically reduces system energy consumption up to 47% and extends product life
- Remote conversion utility (C2E): Allows administrators to remotely manage the upgrade from 4690 OS V6 classic Multiple Controller Feature systems to enhanced mode
- Expanded support: Features support for new IBM SurePOS[™] 700 Models 784 and C84, SureMark[™] Model 1NR, enhanced cash drawers, and controllers, including X3200m3

Overview

As one of the premier point-of-sale (POS) platforms in the retail industry, the IBM 4690 Operating System is widely recognized for its high functionality and rock-solid reliability. Version 6.2 builds on this reputation, providing more functionality while remaining firmly committed to existing users. The new release of IBM 4690 leverages open standard technologies, providing a proven, retail-focused operating system that integrates with a wider range of hardware and applications. It also offers dual modes that allow retailers to determine their own timeline for making modifications to their business services and to plan business transformation in stages. Stores can use new applications and a broad array of hardware today, while migrating to more advanced capabilities in the future.

The enhanced mode of the IBM 4690 Operating System, adds innovations that make this operating platform a comfortable fit for a broad range of retail operations. The enhanced mode leverages an abstraction layer of the operating system to make the platform more hardware independent. This capability empowers you to run the system on some of the latest technologies and IBM hardware, such as IBM SurePOS 700 Models 784 and C84. IBM 4690 V6.2 supports enhanced mode on controllers and terminals and provides a classic-to-enhanced controller conversion utility.

Leveraging leading edge power management technology found only in the latest models of the SurePOS 700 line in enhanced mode, this latest release also provides enhanced power management support and an extended sleep state, including deep sleep when using enhanced mode. Deep sleep means that the system is in a low-power mode and conserving almost the same amount of energy as in the off state. But unlike powering down, deep sleep is much faster and more reliable to get your system up and running when it is needed again. IBM Remote Management Agent

(RMA) also supports deep sleep. This means the system can be turned off and back on remotely. For example, after store closing, systems can be scheduled to sleep then "wake up" in the morning before employees arrive. Or, a retailer can schedule system to go in deep sleep during slow periods of the day and resume when high traffic is expected. A retailer can save as much as 47% of their POS energy cost by going into deep sleep for 12 hours a day.

This announcement fulfills the Software requirements of Preview Announcement 210-013, dated January 05, 2010.

Statement of Direction De-commit: Enhancements for ANPOS Biometric Reader

IBM is withdrawing the Statement of Direction for 4690 OS enhancements for ANPOS biometric reader found in Software Announcement 208-401, dated December 09, 2008.

The statement being withdrawn is as follows:

It is IBM's intent to provide the following enhancements by 4Q2009:

The modular ANPOS biometric reader

Key prerequisites

Refer to the Technical information section for details.

Planned availability date

- April 30, 2010: IBM 4690 Operating System Version 6.2
- July 9, 2010: PTF (Program Temporary Fix) required to implement deep sleep for enhanced mode

Description

IBM delivers a new infrastructure to lay the groundwork for the future. IBM 4690 OS V6.2 is a key component of that infrastructure and provides two operating modes; **classic** and **enhanced** for both controller and terminal.

Classic mode continues to use the current OS infrastructure. This mode is intended to provide investment protection by allowing 4690 OS V6.2 to support the functions and most of the same hardware that has been supported in previous 4690 versions. Some new hardware and new functions available in 4690 OS V6.2 may require enhanced mode. Other functions, such as RMA software distribution support are available in both modes.

The current OS user interfaces and programming APIs continue to be available, allowing current applications to run in enhanced mode. Enhanced mode not only introduces a new hardware interface layer below classic 4690 OS, but it also supports some additional IBM System x® servers, including selected IBM blade server models, and IBM SurePOS 700 models. Enhanced mode is also required to exploit other new functions such as deep sleep automation.

The following new functions are available:

- Enhanced terminal mode unlocks the 4690 V6 terminal, accelerates hardware support, and provides the latest (Java 6) runtime and tooling
- Wake on LAN® support allows enhanced power management from off state (S5) and add support for deep sleep (S3) enhanced mode terminals only
- · Deep sleep support

- Leverages the leading edge power management technology found only in the latest models of the SurePOS 700 line (Models 723, 743, 783, and 784)
- Dramatically cuts energy usage for POS and Self Service Devices without having to turn the system off while not in use
- Remote conversion utility (C2E) allows administrators to remotely manage the upgrade from 4690 OS V6 classic Multiple Controller Feature systems to enhanced mode
- Support for new IBM SurePOS 700 Models 784 and C84 (supported in enhanced mode only)
- Support for new IBM SureMark printer Model 1NR
- Support for new IBM I/O including enhanced cash drawers and SurePoint[™] displays
- Support for controllers including the new X3200m3
- · Ability to burn ISO images to CD in enhanced mode
- Network boot of 4690 supplementals
- Dual independent display resolution

Note: Deep sleep is defined as 'suspend to RAM' (random access memory); this means that the power supply is in a reduced power mode. The system appears off; the CPU has no power; RAM is in slow refresh. The ACPI standard defines deep sleep as 'S3'.

Accessibility by people with disabilities

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

http://www.ibm.com/able/product_accessibility/index.html

Reference information

Refer to Software Announcement 207-001, dated January 09, 2007.

Refer to Software Announcement 210-013, dated January 05, 2010.

Availability of national languages

Product number 5639-P70

Feature Code Description Availability Date

5809 4690 OS V6 Fr Canadian Base+Migr CDROM April 30, 2010 4690 OS V6 English Base+Migr CDROM April 30, 2010

Program number

Program Program number VRM name

5639-P70 6.2 IBM 4690 Operating System V6.2

Product identification number

Maintenance Maintenance

Program PID number 1 year PID number 3 year PID number

5639-P70 5639-BB3/BB5 5639-GG2/GG3/GG4

Education support

Multimedia and classroom education is available for IBM Business Partners, customers, and IBM personnel who sell or support the IBM 4690 Operating System. The following courses are available.

IBM and Business Partner sales education:

Course Title Number

IBM 4690 V6: A Smart Platform for Retail RE1095S

IBM, customer, and Business Partner technical education:

Course Title Number

IBM 4690 Operating System Workshop RE1050

(classroom - 4 1/2 days)

To enroll in these courses and view additional IBM Retail Store Solutions education offerings, go to the appropriate Web site.

IBM customers

http://www.ibm.com/services/weblectures/retailed

IBM Business Partners

http://www.ibm.com/partnerworld/pwu/systems

IBM employees

http://lt.be.ibm.com/smartzone

If you have education-related questions, please contact grse@us.ibm.com.

Offering Information

Product information is available via the Offering Information Web site

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

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

https://www.ibm.com/partnerworld/mem/sla.jsp?num=210-118

Publications

A program directory and one copy of the following publications are automatically supplied with the base and migration machine-readable material:

Title	Order number
Program Directory	GI11-7902
License Information	GI11-7903
Support Agreement Addendum	GI19-0246

Displayable softcopy publications: IBM 4690 OS V6 documentation is offered in displayable softcopy form on the Internet. Copies of the following unlicensed publications are available online

http://www.ibm.com/solutions/retail/store/support

- 1. Under Links, select Publications
- 2. Under Operating Systems, select 4690 V6
- IBM 4690 OS Planning, Installation, and Configuration Guide Version 6 Release 2, G362-0571-00
- IBM 4690 OS Users Guide Version 6 Release 2, G362-0572-00
- IBM 4690 OS Messages Guide Version 6 Release 2, G362-0573-00
- IBM 4690 OS Programming Guide Version 6 Release 2, G362-0574-00
- IBM 4690 OS V6.2: Communications Programming Reference Version 6 Release 2, G362-0575-00
- IBM 4690 OS Master Index Version 6 Release 2, G362-0576-00
- IBM 4690 OS Application Interface Specification for IBM 4610 printers G362-0579-00
- IBM 4680 BASIC Reference, SC30-3356
- TR-4 Tape Drive User's Guide
- OnLine System Probe

These displayable manuals can be viewed with the Adobe® Acrobat Reader, which is offered free on the Internet. Terms and conditions for use of the machine-readable files are shipped with the files. Instructions for displaying the manuals is contained in the README file on the media.

Technical information

Specified operating environment

Hardware requirements

Hardware requirements for 4690 OS Version 6.2 are as follows:

- · Classic controller
 - Minimum/maximum memory 256 MB/1 GB
- Enhanced controller
 - Minimum/maximum memory 512 MB/1 GB
- Classic Terminal Memory
 - Minimum requirement:
 - -- Classic terminal memory with Java 128 MB
 - Maximum used by 4690 OS:

-- Classic terminal memory - 512 MB

Please note that only the IBM SurePOS 700 Series and select models of the IBM SurePOS 4694 POS System can run Java applications.

- Enhanced terminal memory
 - Minimum requirements:
 - -- Enhanced terminal memory 256 MB
 - -- Enhanced terminal memory for 723, 743, and 783 512 MB
 - -- Enhanced terminal memory with Java 512 MB
 - Maximum used by 4690 OS:
 - -- Enhanced terminal memory 1 GB

Please note that in enhanced mode, the maximum memory listed above refers to memory used by the 4690 OS. In enhanced mode, the hardware abstraction layer can actually make use of code above the 1 GB limit. For example running a Java 6 application, such as RMA or ICE Browser, on an enhanced mode controller or terminal will run outside of the 4690 OS code space, thus would make use of memory above 1 GB, up to 4 GB maximum.

The following table shows controllers, terminals, and controller/terminal models that are supported in classic and/or enhanced mode on 4690 OS V6.2:

Model	Controller	Terminal	Contr/Term	Classic	Enhanced
SurePOS 700: 4800-741,781,7	X 22,742,782,7	X 23,743,783	X	X	Х
4800-784	X	X	X		×
4800-721		X		Х	×
4800-C41,C42,	C43 X			Х	×
4800-C84	X				X
eserver 206m: Seriesx 206m: 8485,8490,8485	x			х	х
BladeCenter S Chassis 8886-M	X AZ				X
HS12 blades: 8014-1az, 8028	X -44z				X
IBM System x3200 4362,436	X 3			х	x
IBM System x3200m2 4367-x	X xx (SATA and	SAS models))		x
(SAS model is (SATA model is					
IBM System x3200m3 7327-x	X xx, 7328-xxx				x
4800-73x,75x, 202,242,20E,24	E	X		х	
4694-all mo	dels	X		Х	
4693-a11 mo	dels	x		Х	

4683		X	X	
Xseries 205: 8480	X		X	х
Xseries 206: 8482,8487	X		X	Х
HS20 Blade	X		X	Х

4690 OS V6.2 will support the following hardware adapters only in classic mode and only on servers announced prior to October 2007:

- MPCA
- ARCTIC
- Loop
- · Token Ring
- · PCI Internal Modem

For more detailed information about the hardware supported on V6.2, refer to the controller matrix located in the Knowledgebase at

http://techsupport.services.ibm.com/retail/fido?fetch=/tech/ knowledgebase.html

Software requirements

- Web browser is provided by the ICE Browser product, which is PRPQ P85687 (5799-RWQ).
- ICEsoft PDF Viewer is available to view PDF files. This product is PRPQ P85739 (5799-RZT).
- The 4690 Remote Access provides the capability to do Remote Console for both controller character screens and graphical screens, file transfers, and a remote command processor. This product is PRPQ P85728 (5799-RYG) and is only supported in classic mode.

All three of these PRPQs must be ordered separately from the OS.

Defect support and upgrade charges for the browser, the PDF Viewer, and 4690 Remote Access are included with the 4690 OS Software Maintenance PIDs 5639-BB3, 5639-BB5, 5639-GG2, 5639-GG3, and 5639-GG4.

Refer to the Web site for Technical Support for the 4690 OS PTF download information

http://www2.clearlake.ibm.com/store/support/swsupport/html/sw4690-2.htm

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Limitations

Hardware limitations

IBM 4690 OS V6.2 only runs on IBM hardware.

Some older devices may not be supported in enhanced mode. For more information, check the Knowledgebase article at

http://techsupport.services.ibm.com/retail/fido?fetch=/tech/ knowledgebase.html

10M Ethernet hubs are not supported when using enhanced terminals. 100 MB or switch is required.

Enhanced terminals do not support standard PS/2 Keyboards. The ANPOS keyboard is supported.

When using an external Lenovo® USB Multiburner drive, DVD-RW media should be used.

Deep sleep state will be supported in enhanced mode only on a PTF that will be available as shown in the Planned availability date section. Deep sleep is defined as "suspend to RAM" (random access memory); this means that the power supply is in a reduced power mode. The system appears off; the CPU has no power; and RAM is in slow refresh.

An NVRAM adapter continues to be required for System x and Blade servers used as store controllers for operation with 4690 OS V6.2.

IBM 4683 and 4693 terminals can support only the IBM 4690 OS V1 functions, not the Java- or terminal-based TCP/IP functions. As a result, system management functions are not supported on these terminals.

IBM support for the IBM SurePoint Solution is provided so that Java-based applications can access IBM SurePoint Solution as a touch-screen interface. Current CBASIC applications can use the IBM SurePoint Solution only as a VGA display unless Java extensions are added.

The size of the terminal load shrink file, ADXRT8GF.DAT, must not exceed the memory size of any terminal that is connected.

Ethernet-attached 4694-2x7 and 4694-3x7 terminals and the SurePOS 700 models use the Preboot Execution Environment (PXE) loading mechanism.

JavaPOS support for fiscal printers will not be included in IBM 4690 OS V6.2.

IBM 4694 Models 2x7 and 3x7 and the SurePOS 700 models are not supported as terminals via the Store Loop.

IDE tape drives are not supported on the SurePOS 700.

Boot messages may not be displayed on 2X20 USB attached displays.

PS/2 attached IBM Modular ANPOS keyboard will be supported in compatibility mode only and will not support firmware flashing.

The display must be able to support SVGA 800 x 600 resolution for enhanced mode.

Software limitations

Java 2 application support requires the use of the Java Terminal Offline Function (TOF) or terminal Java preload bundles in the 4690 OS.

Java will not run on loop-attached terminals.

Graphics on SurePOS 721 models using 1024x768x64K colors are not supported by the 4690 OS.

4690 OS does not support USB POS devices attached via a 5V USB port.

Java 1 is removed from 4690 OS.

4690 Remote Access is only supported in classic mode.

Store Integrator (SI) V3.1 (PTF 116) is supported running 4690 V6.2. Support for virtual sessions in 4690 V6.2 is supported on enhanced controllers.

4690 OS V6.2 will support the following hardware adapters only in classic mode and only on servers announced prior to October 2007:

- MPCA
- ARCTIC
- Loop
- Token Ring
- PCI Internal Modem

With the announce of IBM 4690 OS V6.2, the following hardware is no longer supported by the 4690 OS:

- TR7 Tape Drives in servers prior to November 2008
- External attached USB CD drives on all System x servers

For additional information, refer to **Usage restrictions** in the Terms and conditions section of this announcement, or to the license information document that is available on the IBM Software License Agreement Web site

http://www.ibm.com/software/sla/sladb.nsf

Planning information

Packaging

IBM 4690 OS V6.2 is distributed in one package with the following:

- The PoE (Proof of Entitlement) is now the packing list or invoice that is included with the package.
- Three CD-ROMs (Base is LCD7-3407 and LCD7-4511 English, Classic Supps is LCD7-3424, or LCD7-3411 and LCD7-4514 Spanish, Classic Supps is LCD7-3428) including the IBM International Program License Agreement (IPLA)
- Program Directory (GI11-7902)
- Support Agreement Addendum (GI19-0246)
- License Information (LI) (GI11-7903 in hardcopy form)

Security, auditability, and control

The announced programs use the security and auditability features of the IBM 4690 OS V6.2.

The security and auditability feature of the IBM 4690 OS V6.2 includes:

• Authorization services (password) for each user and files protected from unauthorized access, which may be specified by the user during configuration.

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

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

http://www.ibm.com/software/sw-services/

Ordering information

Charge metric

IBM 4690 Operating System V6.2 is a product that has two charge units: Controller and terminal.

Program name PID number Charge metric

IBM 4690 Operating System V6 5639-P70 Per controller
IBM 4690 Operating System V6 5639-P70 Per terminal

The following features are included in the base product of 4690 OS as of Version 5 Release 1:

- · Communication feature
- LAN feature for TCC
- Loop feature for TCC

The following features are optional and may be ordered separately:

- NetBIOS feature
- Multiple Controller Feature (MCF)
- · Small Store feature

The product is licensed per controller and per terminal in a store with the first year of support included. There is a media feature code if media is desired.

IBM 4690 Operating System, 1 or 3 Year SWM is the support offering, which has the same structure as the product with a controller and terminal charge.

Note: The base, migration and classic supplemental packages of the product are available on CD-ROM.

Server or Controller

Server or controller is the unit of measure by which this program is licensed. A server or controller is a computer system that executes requested procedures, commands, or applications to one or more user or terminals. A Proof of Entitlement (PoE) must be obtained for each server or controller regardless of the number of processor cores or partitions in the server or controller on which the program runs or each server or controller managed by the program. Where blade technology is employed, each blade is considered a separate server or controller.

Terminal

Terminal is the unit of measure by which this program is licensed. A terminal is a computing device that requests the execution of a set of commands, procedures, or applications from another computer system that is typically referred to as a server or controller. Multiple terminals may share access to a common server or controller. A terminal generally has some processing capability or is programmable to allow a user to do work. A Proof of Entitlement (PoE) must be obtained for each terminal accessing the program in any manner on each and every server or controller where the program is installed.

Examples include, but are not limited to appliances, automated teller machines, cash registers, desktop computers, kiosks, notebook computers, personal digital assistant, point-of-sale terminals, and technical workstations.

Retail Store Solutions - product offering

The Product Identification (PID) number for the new initial base license of IBM 4690 OS V6.2 is 5639-P70. The following is a description of each of the new feature codes:

• Feature - Multiple Controller: Feature Code 0001

When there are two or more controllers in the store, the main controller is designated as the Master Controller (CC) and the Alternate Controller (DD). When the Master Controller goes down in the store this feature allows Alternate or Backup Controller to take over the operation of the store and transfer control back to the Master Controller once it is able to resume control of the store. If you order MCF, you do **not** need to order NetBios.

• Feature - NetBios feature: Feature Code 0002

This feature must be selected if there is only one controller running 4690 OS in the store. It provides the ability for the controller to communicate from one controller to another outside of the 4690 OS.

• Feature - Small Store Terminal: Feature Code 0003

This feature must be selected for each terminal that 4690 OS will be loaded on and running in the store. The quantity of this feature code ordered **must** be equal to the number of terminals in the store. The definition of a small store is from one to **no more than** a maximum of five terminals in a store.

Feature - Small Store Controller: Feature Code 0004

This feature must be selected for each controller that 4690 OS will be loaded on and running in the store. The quantity of this feature code ordered **must** be equal to the number of controllers in the store. The definition of a small store is from one to **no more than** a maximum of five terminals in a store.

Feature - Per Terminal 4690 OS Base: Feature Code 0005

This feature must be selected for the terminal license for each terminal that 4690 OS loaded and running on in the store. The quantity of this feature code ordered MUST be equal to the number of terminals in the store.

• Feature - Per Controller 4690 OS Base: Feature Code 0006.

This feature must be selected for the controller license for each controller 4690 OS will be loaded and running on in the store. The quantity of this feature code ordered MUST be equal to the number of controllers in the store.

Below represents how to order an initial base license for 4690 OS V6.2. The econfig tool is available to help you create a 4690 OS order. If for some reason econfig is not available, you can place a basic order as follows:

Order 5639-P70 for the base 4690 OS license code

- For 4690 Terminal
 - -- Select feature "Per Terminal 4690 OS Base" for the base software license
 - -- Select the quantity equal to the total number of terminal
- For 4690 Controller
 - -- Select feature "Per Controller 4690 OS Base" for the base software license
 - -- Select the quantity equal to the total number of 4690 controllers
- To get media select feature code 5889

You **must** also include either the 1 year or 3 year Software Maintenance PID to register for Software Maintenance and to be entitled for Software Subscription and Support. Please refer to the section on Software Maintenance for additional information.

Those users current on the SWM for previous Versions, can obtain V6.2, without cost by ordering 5639-P70 and specifying the media code (5889) only.

Retail Store Solutions - Support Offering

All software licenses include Software Maintenance (Software Subscription and Technical Support) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

While your Software Maintenance is in effect, IBM provides you with assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details consult your IBM Software Support Handbook at

http://techsupport.services.ibm.com/guides/handbook.html

Software Maintenance does not include assistance for the design and development of your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

In an effort to provide addition detail to our customers, below is more information regarding the Software Maintenance offering for IBM 4690 OS V6.2.

This offering provides access to the customer support Web site, voice access to personnel, support for configuration and installation questions, maximum two-hour initial response during prime shift and four hours during off shift (off shift is defined as the hours outside of prime shift), and 24×7 coverage for "store down" situations.

- Technical support provides assistance electronically or via telephone during prime shift. Prime shift means 8:00 a.m. to 5:00 p.m. in the local time zone where service is available Monday through Friday (excluding national holidays). This support:
 - Determines problem cause for configuration, installation, and defect-type problems
 - Identifies the source of the problem for unmodified IBM 4690 OS V6.2 code using problem analysis
 - Provides information for existing code corrections, restrictions, or known bypasses for reported problems
 - Provides circumventions (when available)
 - Supplies a reasonable amount of assistance for product interpretation and understanding
- Program Temporary Fixes (PTFs) provide maintenance for various fixes of the base product and releases, documentation, and online updates.
- IBM 4690 OS V6.2 updates include improvements, extensions, and other changes to IBM 4690 OS V6 programs which IBM determines to be logical improvements, upgrades, versions, or new releases.

To order support, specify program number 5639-BB3 for one-year support or 5639-GG2 for three-year and the appropriate registration feature code. Support for the first year, even though there is no charge, must be ordered using the registration feature code. If Software Maintenance has expired, then customers wishing to reinstate their Software Maintenance must order the After License product number.

The following items are orderable:

- Media these are the physical media, such as CD-ROMs, that deliver the product code.
- License and Software Maintenance 1 and 3 year Registration this is the product authorization with maintenance to the first or third anniversary date. There is no charge for the first year.
- Software Maintenance 1 and 3 Year Renewal to Anniversary Date this is the
 maintenance renewal for one year or three years which applies when a customer
 renews their existing coverage period prior to the anniversary date at which it
 expires.
- Software Maintenance after License to Anniversary Date this is for customers who have allowed their Software Maintenance to expire, and later wish to reinstate their Software Maintenance.

When support is purchased, it must be ordered for every installed license of this product. The quantity of the billable feature codes for support must be equal to the quantity of the billable feature codes for the product license. Support is not transferable among products.

Note that one terminal feature should be ordered for each POS terminal supported the IBM 4690 OS. Also note that separate controller features must be obtained for each controller utilizing the feature.

The features can be enabled using the featurization code provided with the package. It is a violation of IBM's licensing policy to enable functions using the featurization code without ordering the selected functions for a one-time charge. Features are listed below. Some of these charge features require ordering a media feature as well.

Program Number: 5639-P70

Description One-Time Charge Feature Code

4690 OS Base (Per Terminal w/ 1 Yr SW Maint)	0005
4690 OS Base (Per Controller w/ 1 Yr SW Maint)	0006
Small Store Terminal (Per terminal)	0003
Small Store Controller (Per controller)	0004
NetBIOS feature (Per controller)	0002
Multiple Controller (Per controller)	0001

Description	Media feature code
Base+Migr (ENU) CD-ROM	5889
Base+Migr (FRC) CD-ROM	5809

Customization Options for 5639-P70: Select the appropriate feature codes to customize your order with delivery options desired. These features can be specified on the initial or MES orders.

Initial Shipments

Feature Description

3444 Serial Number Only

(suppresses shipment of media and documentation)

Expedite Shipments

Feature Description

3445 Local IBM Office Expedite

(for IBM use only)

3446 Customer Expedite Process Charge

(\$30 charge for each product)

Expedite shipments will be processed to receive 72-hour delivery from the time IBM Integrated Supply Chain (ISC) receives the order. ISC will then ship the order via overnight air transportation.

There are two options for Software Maintenance (SWMA) for 4690 OS V6.2. You can choose either a **one** year or a **three** year option.

You **must** order Software Maintenance Registration with the initial order. It entitles the end user/customer to receive new Versions and/or Releases during the initial 12-month period, and also to receive support. It also registers them in the entitlement database, allowing them to open and report problems. If you do **not** include the Software Maintenance Registration PID with the initial order, it will not update the entitlement system to allow the end user/customer to get support.

Also, you must ensure that the number of base 4690 OS terminal and controller licenses match the number of 4690 OS terminal and controller software maintenance licenses. There should be a one for one match.

You do not need to order the SWMA Renewal the first year since it is already included in the base license price of the package. This needs to be ordered once the registration period is up (after the first 12 months). It starts with year number two through the life of the installation.

Please make sure you **always** order the latest announced Software Maintenance PID for 4690 OS. The 4690 OS Software Maintenance PID number will always be the same PID number for the life of 4690 OS.

The following are the Software Maintenance Product Identification (PID) Numbers for 4690 OS V6.2:

- 5639-P70 IBM 4690 Operating System Version 6.2 Base Software license (most current)
- 5639-BB3 IBM 4690 Operating System 1 Year Software Maintenance Registration/Renewal
- 5639-BB5 IBM 4690 Operating System 1 Year Software Maintenance After License
- 5639-GG2- IBM 4690 Operating System 3 Year Software Maintenance Registration
- 5639-GG3 IBM 4690 Operating System 3 Year Software Maintenance Renewal
- 5639-GG4 IBM 4690 Operating System 3 Year Software Maintenance After License

The following products are covered under 4690 OS Software Maintenance:

- 5799-RWQ¹ ICEsoft Browser, V2 for 4690 Operating System Base Software license
- 5799-RZT¹ ICEsoft PDF Viewer Base Software license

¹ There is **not** a separate Software Maintenance Product Identification (PID) number for ICEsoft Browser, ICEsoft PDF Viewer or IBM 4690 Remote Access. Software Maintenance for these products is covered under the 4690 OS Software Maintenance product identification numbers. In order to receive support for the products above, you must be current on your 4690 OS SWM.

The following is a description of each of the feature codes for 4690 OS 1 Year Software Maintenance Registration/Renewal 5639-BB3:

Feature - Per Terminal SW Maintenance Registration: Feature Code 2730

This feature must be selected when initially ordering the 4690 OS terminal base license code. It is a **no charge** feature that registers the end user/customer so they are entitled to their 12 months of Software Maintenance on the 4690 OS terminal base code. The total number of the quantity of the terminal Software Maintenance feature code ordered **must match** the total number of the quantity of the terminal base license feature codes ordered. It should be a one-for-one match.

Feature - Per Terminal SW Maintenance 1 Year Renewal: Feature Code 2731

This feature must be selected for each terminal that needs to be renewed before their 12-month no charge Software Maintenance for the terminals is up for renewal. The quantity of the terminal renewal feature code ordered **must** be equal to the number of terminal base licenses. It should be a one-for-one match.

Feature - Per Controller SW Maintenance Registration: Feature Code 2732

This feature must be selected when initially ordering the 4690 OS controller base license code. It is a no charge feature that registers the end user/customer so they are entitled to their 12 months of Software Maintenance on the 4690 OS controller base code. The total number of the quantity of the controller Software Maintenance feature code ordered **must match** the total number of the quantity of the controller base license feature codes ordered. It should be a one-for-one match.

Feature - Per Controller SW Maintenance 1 Year Renewal: Feature Code 2733

This feature must be selected for each controller that needs to be renewed before their 12-month no charge Software Maintenance for the terminals is up for renewal. The quantity of the terminal renewal feature code ordered **must** be equal to the number of terminal base licenses. It should be a one for one match. There is not a separate renewal feature code for the optional controller features under 4690 OS.

Feature - Per Terminal Small Store (1-5 Ln) SW Maintenance Registration: Feature Code 2869

This feature must be selected when initially ordering the 4690 OS terminal base license code for a small store. A small store is defined as being from one to a maximum of five terminal lanes in a store. It is a **no charge** feature that registers the end user/customer so they are entitled to their 12 months of Software Maintenance on the 4690 OS terminal base code. The total number of the quantity of the terminal Software Maintenance feature code ordered **must match** the total number of the quantity of the terminal small store base license feature codes ordered. It should be a one-for-one match.

Feature - Per Terminal Small Store (1-5 Ln) SWM 1 Year Renewal: Feature Code 2870

This feature must be selected for each terminal small store that needs to be renewed before their 12-month no charge Software Maintenance for the terminals is up for renewal. The quantity of the terminal small store renewal feature codes ordered **must** be equal to the number of terminal base small store feature codes ordered. It should be a one-for-one match.

Feature - Per Controller Small Store (1-5 Ln) SWM Registration: Feature Code 2871

This feature must be selected when initially ordering the 4690 OS controller base license code for a small store. A small store is defined as being from one to a maximum of five terminal lanes in a store. It is a **no charge** feature that registers the end user/customer so they are entitled to their 12 months of Software Maintenance on the 4690 OS controller base code. The total number of the quantity of the controller Software Maintenance feature codes ordered **must match** the total number of the quantity of the controller small store base license feature codes ordered. It should be a one-for-one match.

Feature - Per Controller SW Maintenance 1 Year Renewal: Feature Code 2872

This feature must be selected for each controller small store that needs to be renewed before their 12-month no charge Software Maintenance for the controllers is up for renewal. The quantity of the controller small store renewal feature codes ordered **must** be equal to the number of controller base small store feature code base licenses. It should be a one-for-one match.

The following is a description of each of the feature codes for the 4690 OS 1 Year After License 5639-BB5.

Feature - Per Terminal SW Maintenance 1 Year After License: Feature Code 2734

This feature must be selected when a customer/end user has let their terminal Software Maintenance lapse. This can happen by either a customer/end user not ordering Software Maintenance after the initial 12-month registration period is over OR a customer/end user forgot to renew their Software Maintenance. The total number of the quantity of the Terminal 1 Year After License feature code ordered **must match** the total number of the quantity of the terminal base license feature codes ordered. It should be a one-for-one match.

Feature - Per Controller SW Maintenance 1 Year After License: Feature Code 2735

This feature must be selected when a customer/end user has let their controller Software Maintenance lapse. This can happen by either a customer/end user not ordering the Software Maintenance after the initial 12-month registration period is over **or** a customer/end user forgot to renew their Software Maintenance. The total number of the quantity of the Controller 1 Year After License Software Maintenance feature code ordered **must match** the total number of the quantity of the controller base license feature codes ordered. It should be a one-for-one match.

Feature - Per Terminal Small Store (1-5 Ln) 1 Year After License: Feature Code 2873

This feature must be selected when a customer/end user has let their terminal small store Software Maintenance lapse. This can happen by either a customer/end user not ordering Software Maintenance after the initial 12-month registration period is over **or** a customer/end user forgot to renew their Software Maintenance. The total number of the quantity of the Terminal Small Store 1 Year After License Software Maintenance feature codes ordered **must match** the total number of the quantity of the terminal small store base license feature codes ordered. It should be a one-forone match.

Feature - Per Controller Small Store (1-5 Ln) 1 Year After License: Feature Code 2874

This feature must be selected when a customer/end user has let their controller small store Software Maintenance lapse. This can happen by either a customer/end user not ordering the Software Maintenance after the initial 12 month registration period is over **or** a customer/end user forgot to renew their Software Maintenance. The total number of the quantity of the Controller Small Store 1 Year After License Software Maintenance feature codes ordered **must match** the total number of the

quantity of the controller small store base license feature codes ordered. It should be a one-for-one match.

The following is a description of each of the feature codes for 4690 OS Three Year Software Maintenance Registration 5639-GG2.

Feature - Per Terminal Small Store (1-5 Ln) SW Maintenance 3 YR Registration: Feature Code 0001

This feature must be selected when initially ordering the 4690 OS terminal base license code for a small store. A small store is defined as being from one to a maximum of five terminal lanes in a store. It is a feature that registers the end user/customer so they are entitled to their first 12 months of Software Maintenance on the 4690 OS terminal base code. The total number of the quantity of the terminal Software Maintenance feature code ordered **must match** the total number of the quantity of the terminal small store base license feature codes ordered. It should be a one-for-one match.

Feature - Per Controller Small Store (1-5 Ln) SWM 3 YR Registration: Feature Code 0002

This feature must be selected when initially ordering the 4690 OS controller base license code for a small store. A small store is defined as being from one to a maximum of five terminal lanes in a store. It is a feature that registers the end user/customer so they are entitled to their first 12 months of Software Maintenance on the 4690 OS controller base code. The total number of the quantity of the controller Software Maintenance feature codes ordered **must match** the total number of the quantity of the controller small store base license feature codes ordered. It should be a one-for-one match.

Feature - Per Terminal SW Maintenance 3 YR Registration: Feature Code 0003

This feature must be selected when initially ordering the 4690 OS terminal base license code. It is a feature that registers the end user/customer so they are entitled to their first 12 months of Software Maintenance on the 4690 OS terminal base code. The total number of the quantity of the terminal Software Maintenance feature code ordered **must match** the total number of the quantity of the terminal base license feature codes ordered. It should be a one-for-one match.

Feature - Per Controller SW Maintenance 3 YR Registration: Feature Code 0004

This feature must be selected when initially ordering the 4690 OS controller base license code. It is a feature that registers the end user/customer so they are entitled to their first 12 months of Software Maintenance on the 4690 OS controller base code. The total number of the quantity of the controller Software Maintenance feature code ordered **must match** the total number of the quantity of the controller base license feature codes ordered. It should be a one-for-one match.

The following is a description of each of the feature codes for 4690 OS Three Year Software Maintenance Renewal 5639-GG3:

Feature - Per Terminal SW Maintenance 3 Year Renewal: Feature Code 0001

This feature must be selected for each terminal that needs to be renewed before their 12-month Software Maintenance for the terminals is up for renewal. The quantity of the terminal renewal feature code ordered **must** be equal to the number of terminal base licenses. It should be a one-for-one match.

Feature - Per Controller SW Maintenance 3 Year Renewal: Feature Code 0002

This feature must be selected for each controller that needs to be renewed before their 12-month Software Maintenance for the terminals is up for renewal. The quantity of the terminal renewal feature code ordered **must** be equal to the number of terminal base licenses. It should be a one-for-one match. There is not a separate renewal feature code for the optional controller features under 4690 OS.

Feature - Per Terminal Small Store (1-5 Ln) SWM 3 Year Renewal: Feature Code 0003

This feature must be selected for each terminal small store that needs to be renewed before their 12-month Software Maintenance for the terminals is up for renewal. The quantity of the terminal small store renewal feature codes ordered **must** be equal to the number of terminal base small store feature codes ordered. It should be a one-for-one match.

Feature - Per Controller Small Store (1-5 Ln) SWM 3 Year Renewal: Feature Code 0004

This feature must be selected for each controller small store that needs to be renewed before their 12-month Software Maintenance for the controllers is up for renewal. The quantity of the controller small store renewal feature codes ordered **must** be equal to the number of controller base small store feature code base licenses. It should be a one-for-one match.

The following is a description of each of the feature codes for 4690 OS Three Year Software Maintenance After License 5639-GG4.

Feature - Per Terminal SW Maintenance 3 Year After License: Feature Code 0001

This feature must be selected when a customer/end user has let their terminal Software Maintenance lapse. This can happen by either a customer/end user not ordering Software Maintenance after the initial 12-month registration period is over **or** a customer/end user forgot to renew their Software Maintenance. The total number of the quantity of the Terminal 3 Year After License feature code ordered **must match** the total number of the quantity of the terminal base license feature codes ordered. It should be a one-for-one match.

Feature - Per Controller SW Maintenance 3 Year After License: Feature Code 0002

This feature must be selected when a customer/end user has let their controller Software Maintenance lapse. This can happen by either a customer/end user not ordering the Software Maintenance after the initial 12-month registration period is over **or** a customer/end user forgot to renew their Software Maintenance. The total number of the quantity of the Controller 3 Year After License Software Maintenance feature code ordered **must match** the total number of the quantity of the controller base license feature codes ordered. It should be a one-for-one match.

Feature - Per Terminal Small Store (1-5 Ln) 3 Year After License: Feature Code 0003

This feature must be selected when a customer/end user has let their terminal small store Software Maintenance lapse. This can happen by either a customer/end user not ordering Software Maintenance after the initial 12-month registration period is over **or** a customer/end user forgot to renew their Software Maintenance. The total number of the quantity of the Terminal Small Store 3 Year After License Software Maintenance feature codes ordered **must match** the total number of the quantity of the terminal small store base license feature codes ordered. It should be a one-forone match.

Feature 0004- Per Controller Small Store (1-5 Ln) 3 Year After License: Feature Code 0004

This feature must be selected when a customer/end user has let their controller small store Software Maintenance lapse. This can happen by either a customer/end user not ordering the Software Maintenance after the initial 12-month registration period is over **or** a customer/end user forgot to renew their Software Maintenance. The total number of the quantity of the Controller Small Store 3 Year After License Software Maintenance feature codes ordered **must match** the total number of the

quantity of the controller small store base license feature codes ordered. It should be a one-for-one match.

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