



IBM 4690 OS V6.3 provides store transformation with a rock-solid operating system

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At a glance

IBM® 4690 Version 6.3 offers the following new features:

- Future ready
 - Innovative technology supports retail's newest trends
 - Embrace and extend technology allows you to take advantage of the best of both worlds - rock-solid 4690 OS and Java™ 6 ISV applications
- Flexible and dynamic
 - Java 6 delivers a Smarter Checkout
 - Built-in Firefox browser can help extend the POS into a profit center
 - SurePOS™ diagnostics over the network provide fast problem determination for new SurePOS 700 and 300 systems
- Rock solid
 - Superior platform for advanced hardware systems, including new SurePOS 700 and SurePOS 300 models, and select xSeries® and Blade Center servers
 - High-performance solid state drives in new SurePOS 700 and 300 models
 - Industry-standard directory services allows for personalized security

Overview

The IBM 4690 OS environment is the premier point-of-sale platform for large retailers worldwide, delivering superior functionality and proven reliability. The next generation 4690 architecture gives retailers the industry-leading IBM technology to take customer service and store transformation to new heights, such as opening new revenue opportunities and fast return on investment while managing business complexity and risk.

With IBM 4690 OS V6.3 retailers can:

- Extend store capabilities with modern, industry-standard Mozilla Firefox browser built in
- Optimize administration with the ability to manage 4690 OS user IDs and passwords from the enterprise using Open Lightweight Directory Access Protocol (LDAP)
- Deliver retail's newest trends with solid reliability on the latest IBM SurePOS 700 and 300 systems

Key prerequisites

Refer to the [Technical information](#) section for details.

Planned availability date

May 18, 2012 - IBM 4690 Operating System Version 6.3

Description

IBM delivers a new release that builds on the 4690 OS Version 6 Enhanced infrastructure. Version 6 lays the groundwork to expand 4690 OS in the future. IBM 4690 OS V6.3 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 legacy 4690 OS infrastructure. This mode is intended to provide investment protection by allowing 4690 OS V6.3 to support many of the same hardware platforms that have been supported in previous 4690 versions.

New hardware and OS functions available in 4690 OS V6.3 may require enhanced mode.

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 and 300 models. Enhanced mode is also required to exploit other new functions such as Firefox browser and Directory Services for managing user IDs and passwords.

The following new functions are available in Enhanced mode:

- Firefox Browser brings modern web browsing environment
- Centrally managed user IDs and passwords using industry-standard Open LDAP
- USB 2.0 support for the latest peripherals
- Improved USB PIN pad configuration
- SMART data for disk enables health monitoring
- Network load of SurePOS diagnostics for fast reliable problem determination on SurePOS 700 and 300 systems
- Display, touch, and USB hub firmware updates by the OS on the latest SurePoint™ displays
- Support for OpenSSH (secure shell) Version 5.6
- Support for new SurePOS 700 and 300 system units and high-performance solid state drives
- Support for new System x Servers, including x3100M4, x3250M4, and select blade models (see controller matrix for details on supported controllers)

The following new functions are available in both Classic and Enhanced mode:

- PCI-DSS secure delete included in base OS
- Increased capacity of product control file
- Support for USB 2x20 Version 3 customer pole displays

Store loop will no longer be supported in Classic or Enhanced mode.

Accessibility by people with disabilities

A US 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 [210-118](#), dated April 13, 2010.

Availability of national languages

Product number 5639-P70

Feature code	Description	Availability date
5809	4690 OS V6 Fr Canadian Base+Migr CDROM	05/18/12
5889	4690 OS V6 English Base+Migr CDROM	05/18/12

Program number

Program number	VRM	Program name
5639-P70	6.3	IBM 4690 Operating System V6.3

Product identification number

Program PID number	Maintenance 1 year PID number	Maintenance 3 year PID number
5639-P70	5639-BB3 1yr Reg/Ren 5639-BB5 1yr AftLic	5639-GG2 3yr Reg 5639-GG3 3yr Ren 5639-GG4 3yr AftLic

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=212-001>

Education support

Multimedia and classroom education is available for IBM Business Partners and customers. The following courses are available:

Business Partner sales education:

Title	Course number
IBM 4690 V6: A Smart Platform for Retail	RE1096S

Customer and Business Partner technical education:

Title	Course number
IBM 4690 Operating System Workshop (classroom - 4 1/2 days)	RE1050

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

- IBM customers
<http://www.ibm.com/services/weblectures/retailed>
- IBM Business Partners
<http://www.ibm.com/partnerworld/pwu/systems>

If you have education-related questions, contact

grse@us.ibm.com.

Offering Information

Product information is available via the Offering Information website

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

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
The IBM Agreement for Acquisition of Software Maintenance	Z125-6011
International Program License Agreement	Z125-3301

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 3, G362-0571
 - IBM 4690 OS Users Guide Version 6 Release 3, G362-0572
 - IBM 4690 OS Messages Guide Version 6 Release 3, G362-0573
 - IBM 4690 OS Programming Guide Version 6 Release 3, G362-0574
 - IBM 4690 OS V6.3: Communications Programming Reference Version 6 Release 3, G362-0575
 - IBM 4690 OS Master Index Version 6 Release 3, G362-0576
 - IBM 4690 OS Application Interface Specification for IBM 4610 printers G362-0579
 - 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 IBM 4690 Operating System V6.3 are as follows:

- Classic controller
 - Minimum/maximum memory - 256 MB/1 GB
- Enhanced controller
 - Minimum/maximum memory - 512 MB/1 GB

Reference the 4690 OS Controller Matrix for supported IBM System x and SurePOS controller systems.

- Classic Terminal Memory
 - Minimum requirement:
 - Classic terminal memory with Java - 128 MB
 - Maximum used by 4690 OS:
 - Classic terminal memory - 512 MB (for those 4694 and SurePOS 700 terminals that can run 512 MB)

Note that certain models of the IBM SurePOS 4694 POS System cannot run Java applications.

- Enhanced terminal memory
 - Minimum requirements:
 - Enhanced terminal memory - 512 MB
 - Enhanced terminal memory running Firefox or Java 6 - 1 GB
 - The SurePOS 700 models 4800-784, 4900-745, 775 which ship with a minimum of 1 GB RAM, and the 4900-785 that ships with a minimum of 2 GB RAM support Enhanced Mode only.
 - The SurePOS 300 model 4810-350 which ships with a minimum 1 GB RAM will be supported in Enhanced Mode only.
 - In Enhanced Mode, the hardware abstraction layer can make use of code above the 1 GB limit when running Java 6 applications such as RMA. Java 6 applications can use memory up to 4 GB maximum.
 - Maximum used by 4690 OS:
 - Enhanced terminal memory - 1 GB

Note that in enhanced mode, the maximum memory listed above refers to memory used by the 4690 OS. Solution stack may require additional memory.

The following table shows terminal and controller/terminal models supported in Classic and/or Enhanced Mode on 4690 OS V6.3 The controller/terminal configuration in Enhanced Mode is now supported for the indicated models.

Model	Controller	Terminal	Contr/Term	Classic	Enhanced
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SurePOS 700:
4800-741, 781, 722, 742, 782, 723, 743, 783

	X	X	X	X	X
4800-784	X	X	X		X
4800-721		X		X	
4800-C41, C42, C43	X			X	X
4800-C84	X				X
4900-745, 775, 785	X	X	X		X
SurePOS 300 4810-350		X			X
4800-73x, 75x, 202, 242, 20E, 24E		X		X	
4694-all models (Store loop is not supported in V6.3)		X		X	
4693-all models (Store loop is not supported in V6.3)		X		X	

Enhanced terminals can be used with Classic controllers and Classic terminals can be used with Enhanced controllers.

Classic and Enhanced terminal configurations can be used in the same store network.

Enhanced terminals only support Ethernet LAN communications.

For detailed information about the controller hardware supported on V6.3, refer to the controller matrix located in the Knowledgebase at

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

Search for 'CONTMATX' for articles on supported controllers.

Software requirements

Firefox web browser is provided with 4690 OS V6.3

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 V6.3 only runs on IBM hardware.
 - Store loop is not supported in V6.3.
 - 4800-721 will only be supported in Classic mode.
 - 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>

Search for '4690 V6 Limitations' for additional and more detailed information on limitations.

Search for keyword '4690posio' for information on POS device support in V6.

- 10M Ethernet hubs are not supported when using enhanced terminals. 100 MB or switch is required.
- When using an external Lenovo USB Multiburner drive, DVD-RW media should be used.
- Deep sleep state is supported in enhanced mode only Deep sleep is defined as "suspend to RAM" (random access memory) or S3; 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 V6.3.
- 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.
- JavaPOS support for fiscal printers will not be included in IBM 4690 OS V6.3.
- IDE tape drives are not supported on the SurePOS 700 or 300.
- 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.
- 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
- 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.
 - 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 not supported in 4690 OS Version 6.
 - 4690 Remote Access is only supported in classic mode.
 - Store Integrator (SI) V3.1 and higher are supported running 4690 V6.3. Support for virtual sessions in 4690 V6.3 is supported on enhanced controllers.
 - 4690 OS V6.3 will support the following hardware adapters only in classic mode and only on servers announced prior to October 2007:
 - MPCA
 - ARCTIC
 - Token Ring
 - PCI Internal Modem

For additional information, refer to [Usage restriction](#) in the Terms and conditions section of this announcement, or to the license information document that is available on the IBM Software License Agreement website

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

Planning information

Packaging

IBM 4690 OS V6.3 is distributed in one package with the following:

- The Proof of Entitlement (PoE) is now the packing list or invoice that is included with the package.

- Three CD-ROMs (Base/Migration consists of Disk 1 and 2, and Disk 3 is the Classic Supplementals, for each language.)
- Program Directory (GI11-7902)
- The IBM Agreement for Acquisition of Software Maintenance Z125-6011
- International Program License Agreement Z125-3301
- 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 V6.3.

The security and auditability feature of the IBM 4690 OS V6.3 includes:

- Authorization services (password) which may be specified for each user during configuration to protect against unauthorized access.

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 V6.3 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 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

Server is a unit of measure by which the program can be licensed. A server is a physical computer that is comprised of processing units, memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or Client Devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate server. For the purpose of server-based licensing, licensee must obtain entitlements for each server that is made available to the program, regardless of the number of processor cores and partitions in the server or the number of copies of the program on the server.

Notes:

- Some programs may require licenses for the program **and** what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain entitlements for this program sufficient to cover the servers managed by the program.
- Some programs may be licensed on a managed basis **only**. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain entitlements for this program sufficient to cover the servers managed by program.

Client Device

Client Device is a unit of measure by which the program can be licensed. A Client Device is a single-user computing device or special-purpose sensor or telemetry device that requests the execution of or receives for execution a set of commands, procedures, or applications from or provides data to another computer system that is typically referred to as a server or is otherwise managed by the server. Multiple Client Devices may share access to a common server. A Client Device may have some processing capability or be programmable to allow a user to do work. Examples include, but are not limited to, actuators, appliances, automated teller machines, automatic meter readers, cash registers, disk drives, desktop computers, kiosks, notebook computers, personal digital assistants, point-of-sale terminals, sensors, smart meters, tape drives, and technical workstations. Licensee must obtain entitlements for every Client Device that runs, provides data to, uses services provided by, or otherwise accesses the program and for every other computer or server on which the program is installed.

Retail Store Solutions - product offering

The Product Identification (PID) number for the new initial base license of IBM 4690 OS V6.3 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 V6.3. 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 V6.3, 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 additional detail to our customers, below is more information regarding the Software Maintenance offering for IBM 4690 OS V6.3.

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 x 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 V6.3 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 V6.3 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 V6.3. 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 customer to receive new Versions and 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 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.

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 V6.3:

- 5639-P70 - IBM 4690 Operating System Version 6.3 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 product is covered under 4690 OS Software Maintenance:

- 5799-RYG - IBM 4690 Remote Access Base Software license

There is **not** a separate Software Maintenance Product Identification (PID) number for IBM 4690 Remote Access. Software Maintenance is covered under the 4690 OS Software Maintenance product identification numbers. In order to receive support for IBM 4690 Remote Access Base software 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 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 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 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 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 has let their controller Software Maintenance lapse. This can happen by either a customer not ordering the Software Maintenance after the initial 12-month registration period is over **or** a customer 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 has let their terminal small store Software Maintenance lapse. This can happen by either a customer not ordering Software Maintenance after the initial 12-month registration period is over **or** a customer 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-for-one match.

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

This feature must be selected when a customer has let their controller small store Software Maintenance lapse. This can happen by either a customer not ordering the Software Maintenance after the initial 12 month registration period is over **or** a customer 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 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 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 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 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 has let their terminal Software Maintenance lapse. This can happen by either a customer not ordering Software Maintenance after the initial 12-month registration period is over **or** a customer 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 has let their controller Software Maintenance lapse. This can happen by either a customer not ordering the Software Maintenance after the initial 12-month registration period is over **or** a customer 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 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 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-for-one 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 has let their controller small store Software Maintenance lapse. This can happen by either a customer not ordering the Software Maintenance after the initial 12-month registration period is over **or** a customer 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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