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Program Directory for Toshiba 4690 OPERATING SYSTEM VERSION 6

Version 6

Release 04, Modification Level 00

Program Number 5639-P70

for Use with
Toshiba 4690

Document Date: September 2014

GI11790218

Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page iv.

This program directory, dated September 2014, applies to Toshiba 4690 OPERATING SYSTEM Version 6 (Toshiba 4690 OS V6) Release 04, Modification Level 00, Program Number 5639-P70 for the following:

COMPIDs	Feature Numbers	System Name
5639P7000	5819	Toshiba 4690
5639P7000	5869	Toshiba 4690
5639P7000	5879	Toshiba 4690
5639P7000	5829	Toshiba 4690
5639P7000	5859	Toshiba 4690
5639P7000	5839	Toshiba 4690
5639P7000	5809	Toshiba 4690
5639P7000	5849	Toshiba 4690
5639P7000	5889	Toshiba 4690

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Notices

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1.0 Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of Toshiba 4690 OS V6. You should read all of this program directory before installing the program and then keep it for future reference.

The program directory contains the following sections:

2.0, "Program Materials" on page 2 identifies the basic and optional program materials and documentation for Toshiba 4690 OS V6.

3.0, "Program Support" on page 6 describes the Toshiba support available for Toshiba 4690 OS V6.

4.0, "Program and Service Level Information" on page 7 lists the APARs (program level) and PTFs (service level) incorporated into Toshiba 4690 OS V6.

5.0, "Installation Requirements and Considerations" on page 8 identifies the resources and considerations for installing and using Toshiba 4690 OS V6.

6.0, "Installation Instructions" on page 15 provides detailed installation instructions for Toshiba 4690 OS V6. It also refers to the publication containing the procedures for activating the functions of Toshiba 4690 OS V6.

Appendix A, "Toshiba 4690 OS V6 Install Logic" on page 16 provides the install logic for Toshiba 4690 OS V6.

Before installing Toshiba 4690 OS V6, read 3.1, "Preventive Service Planning" on page 6. This section tells you how to find any updates to the information and procedures in this program directory.

Figure 1 (Page 2 of 3). Basic Material: CD-ROM

Medium	Feature Number	Physical Volume	External Label Identification
CD-ROM	5849	01-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5849	02-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5849	01-01	CLASSIC SUPPLEMENTALS 0E01

CHINESE TRADITIONAL

Medium	Feature Number	Physical Volume	External Label Identification
CD-ROM	5869	01-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5869	02-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5849	01-01	CLASSIC SUPPLEMENTALS 0E01

ENGLISH

Medium	Feature Number	Physical Volume	External Label Identification
CD-ROM	5889	01-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5889	02-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5889	01-01	CLASSIC SUPPLEMENTALS 0E01

FRENCH

Medium	Feature Number	Physical Volume	External Label Identification
CD-ROM	5839	01-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5839	02-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5839	01-01	CLASSIC SUPPLEMENTALS 0E01

GERMAN

Medium	Feature Number	Physical Volume	External Label Identification
CD-ROM	5859	01-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5859	02-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5859	01-01	CLASSIC SUPPLEMENTALS 0E01

JAPANESE

Figure 1 (Page 3 of 3). Basic Material: CD-ROM

Medium	Feature Number	Physical Volume	External Label Identification
CD-ROM	5879	01-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5879	02-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5879	01-01	CLASSIC SUPPLEMENTALS 0E01
KOREAN			
Medium	Feature Number	Physical Volume	External Label Identification
CD-ROM	5819	01-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5819	02-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5819	01-01	CLASSIC SUPPLEMENTALS 0E01
SPANISH			
Medium	Feature Number	Physical Volume	External Label Identification
CD-ROM	5829	01-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5829	02-02	COMBINED BASE/MIGRATION 0E01
CD-ROM	5829	01-01	CLASSIC SUPPLEMENTALS 0E01

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for Toshiba 4690 OS V6.

2.3 Program Publications

The following sections identify the basic and optional publications for Toshiba 4690 OS V6.

2.3.1 Basic Program Publications

Figure 2 identifies the basic program publications for Toshiba 4690 OS V6. Copies of the publications are available using the following INTERNET address and selecting PUBLICATIONS on the right of the screen then scrolling to OPERATING SYSTEM PUBLICATIONS. Some publications can be found under RELATED PUBLICATIONS:

<http://www2.clearlake.ibm.com/store/support>

Figure 2 (Page 1 of 2). Basic Material: Unlicensed Publications

Publication Title
IBM 4690 OS Planning, Installation, and Configuration Guide Version 6 Release 4

Figure 2 (Page 2 of 2). Basic Material: Unlicensed Publications

Publication Title

IBM 4690 OS Programming Guide Version 6 Release 4

IBM 4690 OS Users Guide Version 6 Release 4

IBM 4690 OS V6.3: Communications Programming Reference Version 6 Release 4

IBM 4690 OS Master Index Version 6 Release 4

IBM 4690 OS Messages Guide Version 6 Release 4

IBM 4680 Basic Reference

TR-4 Tape Drive User's Guide

Online System Probe

IBM 4690 OS Application Interface Specification for Toshiba 4610 Printers

2.3.2 Optional Program Publications

There are no optional publications for Toshiba 4690 OS V6.

2.4 Microfiche Support

There is no microfiche for Toshiba 4690 OS V6.

2.5 Publications Useful During Installation

IBM 4690 OS V6 Planning, Installation, and Configuration Guide

3.0 Program Support

This section describes the Toshiba support available for Toshiba 4690 OS V6.

3.1 Preventive Service Planning

There is no Upgrade or Subset ID for 4690 Operating System.

3.2 Statement of Support Procedures

Report any difficulties you have using this program to your Toshiba Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent. Voice support requires Support Line Contract.

Figure 3 identifies the component IDs (COMPID) for Toshiba 4690 OS V6.

Figure 3. Component IDs

COMP ID	Component Name	REL
5639P7000	4690 OS V6	401

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of Toshiba 4690 OS V6. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated.

4.1 Program Level Information

No APARS have been incorporated into Toshiba 4690 OS V6.

4.2 Service Level Information

No PTF's have been incorporated into Toshiba 4690 OS V6. This is the initial release of the product.

4.3 Cumulative Service Tape

There is no cumulative service tape for Toshiba 4690 OS V6.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Toshiba 4690 OS V6. In most cases, you can install Toshiba 4690 OS V6 on a running system (target system). However, sometimes two systems may be required. If two systems are required, then the following terminology is used:

1. The system used to install the program (driving system)
2. The system on which the program is installed (target system).

Two systems are not needed to install Toshiba 4690 OS V6; therefore, the installation requirements for Toshiba 4690 OS V6 are described under Target System Requirements.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install Toshiba 4690 OS V6.

5.1.1 Programming Requirements

There are no special programming requirements for the driving system.

5.1.2 DASD Storage Requirements

There are no special storage requirements for the driving system.

5.1.3 Processor Storage Requirements

5.2 Target System Requirements

This section describes the environment of the target system required to install and use Toshiba 4690 OS V6.

5.2.1 Operating System Requirements

Toshiba 4690 OS V6 is an Operating System. Please refer to the announcement letter and Knowledgebase for all requirements for installation.

5.2.2 Machine Requirements

Hardware requirements for Toshiba 4690 Operating System V6.4 are as follows:

- o Classic controller
 - Minimum/maximum memory - 256 MB/1 GB
- o Enhanced controller
 - Minimum - 512 MB
 - Controller must have 1GB or more of memory installed if using the Classic to Enhanced (C2E) tool with 4690 OS V6.4.

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

- o Terminal hardware requirements
 - Minimum terminal memory with Java - 128 MB
 - Maximum terminal memory - 512 MB (for those 4694 and SurePOS 700 terminals that can run 512 MB)

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

- Enhanced mode
 - Minimum terminal memory - 512 MB
- Running MBrowser 17, Evince PDF viewer, or Java 6 requires a minimum terminal memory of 1GB.

The Toshiba TCxWave 6140-100/10D models are supported in enhanced mode only.

The TCxWave 6140-100/10D models ship with a minimum of 2GB RAM. The Micro SD feature 5179 is required to support 4690 OS V6.4 Enhanced (this provides the NVRAM function).

The SurePOS 700 Models 4800-784, 4900-745, and 4900-775 ship with a minimum of 1 GB RAM; the 4900-785 ships with a minimum of 2 GB RAM. These models support enhanced mode only.

The SurePOS 300 Model 4810-350 ships with a minimum 1 GB RAM and is supported in enhanced mode only.

Maximum terminal memory used by 4690 OS is 1 GB.
 In enhanced mode, the hardware abstraction layer can make use of code above the 1 GB limit when running a Java 6 application such as RMA. Java 6 applications can use memory up to 4 GB maximum.

The following table shows terminal and controller/terminal models supported in classic and/or enhanced mode on 4690 OS supported in classic and/or enhanced mode on 4690 OS V6.4. The controller/terminal configuration in enhanced mode is now supported for the indicated models.

Model	Enhanced Terminal	Classic Terminal	Contr/ Term
TCxWave 6140-100/10D		X	
SurePOS 700: 4800-741,781,722,742,782,723,743,783		X	X X
SurePOS 700: 4800-784		X	X
SurePOS 700: 4800-721		X	
SurePOS 700: 4800-73x,75x, 202, 242, 20E, 24E		X	
SurePOS 700: 4900-745,775,785		X	X
SurePOS 300: 4810-350		X	
4694-all models (1)		X	
4693-all models (1)		X	

NOTE: (1) Loop and Token Ring interfaces are not supported by 4690 OS V6.4

Enhanced terminals can be used with classic controllers and classic minals 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 V6.4, refer to the controller matrix located in the Knowledgebase at

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

5.2.3 Programming Requirements

There are no special programming requirements for the target system.

5.2.4 DASD Storage Requirements

There are no special storage requirements for 4690 Operating System.

5.2.5 Processor Storage Requirements

Please refer to the the Knowledgebase at: <http://techsupport.services.ibm.com/retail/techknow>

5.3 Program Considerations

There are no program, system, or special considerations for Toshiba 4690 OS V6.

5.3.1 Operating System Requirements

The Toshiba 4690 operating system is used to install Toshiba 4690 OS V6.

5.3.2 Machine Requirements

Please refer to the KNOWLEDGE base at: <http://techsupport.services.ibm.com/retail/techknow>

5.3.3 Programming Considerations

Toshiba 4690 OS V6 only runs on Toshiba hardware terminals and specific controllers defined in the Controller Matrix.

- IBM x205 and x206 servers are not supported in V6.4.
- Token Ring is not supported in V6.4
- TCxWave 6140-100/10D models are supported in V6.4 enhanced mode when the Micro SD card feature (FC 5179) is ordered. (This provides the NVRAM function.)
- The 16x60 and 12x40 text modes are not supported on TCxWave.
- TCxWave is supported in landscape mode only; portrait mode is not supported.
- Multi Touch and gestures are not supported in 4690 OS.
- Store loop is not supported in V6.3, or later
- Model 4800-721 is only 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 detailed information on limitations.

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

- Enhanced terminals require 100 MB or 1GB Ethernet network
- 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 the 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 or later

- In Classic mode, 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 is not included in 4690 OS.
- Boot messages may not be displayed on 2X20 USB attached displays.

- PS/2 attached Modular ANPOS keyboard is supported in compatibility mode only and does not support firmware flashing.
- The display must be able to support SVGA 800 x 600 resolution for enhanced mode.

With the announce of 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
- 4690 OS V6.4 does not support the following hardware adapters
 - MPCA
 - ARCTIC
 - Token Ring
 - PCI Internal Modem

5.3.4 System Considerations

There are no system considerations for Toshiba 4690 OS V6.

5.3.5 Special Considerations

CHEC 6.6 is supported with 4690 V6.4 only in configurations that

- provide an in-store BOSS and do not use the RMA master agent provided in the 4690 POS controller.
- SNA is not supported in 4690 V6.4. All support for this function will end December 27, 2013.
- Java 2 application support requires the use of the Java Terminal Offline Function (TOF) or terminal Java preload 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 by a 5V USB port.
- Java 1 is not supported in 4690 OS Version 6.
- 4690 Remote Access (5799-RYG) is only supported in classic mode.

(Note: PRPQ 5799-RYG has an announced end of support date of 9/30/2014.)

Store Integrator (SI) V3.3, and later, are supported running 4690 V6.4. Support for virtual sessions in 4690 V6.4 is

supported on enhanced controllers.

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 Toshiba Software License Agreement website

<http://www.toshibagcs.com/licensing>

6.0 Installation Instructions

This chapter describes the installation method and step-by-step procedures to install the functions of Toshiba 4690 OS V6. The Planning, Installation and Configuration Guide contains the step-by-step procedures to activate the functions of Toshiba 4690 OS V6.

6.1 Installing Toshiba 4690 OS V6

Please refer to the Planning, Installation and Configuration Guide.

6.2 Activating Toshiba 4690 OS V6

Detailed steps to get the program into operational status are defined in the Planning, Installation and Configuration Guide.

Appendix A. Toshiba 4690 OS V6 Install Logic

Please refer to the Planning, Installation and Configuration Guide.

Reader's Comments

Program Directory for Toshiba 4690 OPERATING SYSTEM Version 6 Release 04, Modification Level 00

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For each of the topics below please indicate your satisfaction level by circling your choice from the rating scale. If a statement does not apply, please circle N.

RATING SCALE						
very satisfied	<=====>			very dissatisfied	not applicable	
1	2	3	4	5	N	

	Satisfaction					
Ease of product installation	1	2	3	4	5	N
Contents of program directory	1	2	3	4	5	N
Installation Verification Programs	1	2	3	4	5	N
Time to install the product	1	2	3	4	5	N
Readability and organization of program directory tasks	1	2	3	4	5	N
Necessity of all installation tasks	1	2	3	4	5	N
Accuracy of the definition of the installation tasks	1	2	3	4	5	N
Technical level of the installation tasks	1	2	3	4	5	N
Ease of getting the system into production after installation	1	2	3	4	5	N

Did you order this product as an independent product or as part of a package?

- ☐ Independent
☐ Package

If this product was ordered as part of a package, what type of package was ordered?

- ☐ CustomPac
☐ FunctionPac
☐ SystemPac
☐ System Delivery Offering (SDO)
☐ Other - Please specify type:

Is this the first time your organization has installed this product?

- ☐ Yes

___ No

Were the people who did the installation experienced with the installation of these products?

___ Yes

___ No

If yes, how many years? ___

If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

Please provide the following contact information:

Name and Job Title

Organization

Address

Telephone

Thank you for your participation.

Please send the completed form to (or give to your Toshiba representative who will forward it to the Toshiba 4690 OPERATING SYSTEM Development group):

Toshiba Corp.
DGTA/307
3039 Cornwallis Road
Durham, N. C. 27709

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