



# IBM System Storage ProtecTIER Entry Edition V2.5 supports Symantec NetBackup OpenStorage API

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## At a glance

IBM® System Storage® ProtecTIER® Entry Edition V2.5 software has been enhanced to support the Symantec NetBackup OpenStorage API (application programming interface).

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

## Overview

IBM System Storage ProtecTIER Entry Edition V2.5 software has been enhanced to provide an option to support Symantec NetBackup OpenStorage API. The OpenStorage interface is an application programming interface (API) which provides tighter integration between the ProtecTIER system and NetBackup software. Through this API, increased control of ProtecTIER deduplication systems is provided to NetBackup systems. The OpenStorage interface delivers better management of backup images from NetBackup systems, and more control over the replication of backup images to multiple ProtecTIER systems.

## Key prerequisites

Only backup data passed to ProtecTIER from NetBackup is eligible to utilize the optional OpenStorage interface.

## Planned availability date

December 3, 2010

## Description

ProtecTIER Entry Edition V2.5 introduces support for the Symantec NetBackup OpenStorage API. ProtecTIER Entry Edition V2.5 systems may be configured as a virtual tape library (VTL) or as an OpenStorage interface system. At this time, a ProtecTIER system may only function as a VTL system or an OpenStorage system; it cannot function as both.

## OpenStorage API

The OpenStorage interface is a NetBackup appliance programmable interface (API) supporting communication between NetBackup systems and OpenStorage enabled ProtecTIER systems. The OpenStorage interface provides the following capabilities:

- Manage backup images: NetBackup determines when backup images are created, copied, deleted or restored and these instructions are passed to the ProtecTIER system through the API
- NetBackup software directs replication to up to 12 ProtecTIER systems: Replicated backup images are recorded in the NetBackup catalog to facilitate rapid recovery of data in the event of a disaster
- Balance workload and performance: NetBackup balances backup jobs among media servers and ProtecTIER systems by choosing the least used media server and least full ProtecTIER system
- Monitoring: Detailed statistics on the state of ProtecTIER systems and the backup images stored in the systems are available through the API

A ProtecTIER plug-in for OpenStorage must be installed on the NetBackup media server. The API communication occurs between the NetBackup media server and the plug-in. Backup images are transferred between the plug-in and the ProtecTIER system through Ethernet connections. Two 1 Gb Ethernet links are supported for TS7610 OpenStorage enabled systems.

ProtecTIER OpenStorage support includes plug-ins for:

- Microsoft® Windows® 2003 (32-bit and 64-bit)
- Windows 2008 (64-bit)
- AIX® 5.3
- AIX 6.1

A ProtecTIER OpenStorage enabled system is also known as a storage server. There is one storage server on each ProtecTIER OpenStorage system. Each storage server can support up to 256 logical storage units (LSUs). Backup images sent to a storage server are written to a LSU. ProtecTIER Entry Edition supports up to 64 OpenStorage streams per node. A maximum of 64 replication streams are supported from the total OpenStorage streams per node.

A single storage server may be shared with multiple NetBackup media servers.

## Virtual tape library

The characteristics of ProtecTIER Virtual Tape Library systems have not changed with this release. Refer to

IBM System Storage ProtecTIER Entry Edition V2.1 Software Announcement [210-244](#), dated July 20, 2010.

## Accessibility by people with disabilities

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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](http://www.ibm.com/able/product_accessibility/index.html)

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## Product positioning

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TS7610 ProtecTIER Deduplication Appliance Express® expands data protection offerings to midsized customers. ProtecTIER can help greatly change the economics of data protection by enabling storage of up to 25 times more data on a given amount of physical disk capacity.

TS7610 Appliance is designed with capacity, price, performance, function, and RAS (reliability, availability, and serviceability) characteristics to appeal to the midsized customer, and to the enterprise customer with data backup and protection requirements in remote offices.

ProtectTIER Entry Edition V2.5 supports the OpenStorage interface to NetBackup software, providing greater control over of the TS7610 Appliance from the NetBackup application.

TS7610 Appliance complements and integrates with many other IBM hardware and software offerings:

- IBM Tivoli® Storage Manager is compatible with TS7610 Appliance and can take advantage of a TS7610 Appliance as a target to increase backup performance and reliability
- IBM Tape Systems, such as the TS3500 Tape Library, can be used in conjunction with the TS7610 Appliance to provide a comprehensive end-to-end backup and recovery environment that takes advantage of the strengths of both disk and tape

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## Reference information

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For information about IBM System Storage TS7610 ProtectTIER Appliance (IBM 3959-SM1), refer to Hardware Announcement [110-238](#), dated October 26, 2010.

For information about IBM System Storage ProtectTIER Entry Edition V2.1, refer to Software Announcement [210-244](#), dated July 20, 2010.

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## Program number

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Program number	VRM	Program name
5639-TAA	2.5.0	IBM System Storage ProtectTIER Entry Edition V2.5 Software
Software Maintenance		
5639-TAB		ProtectTIER Entry Edition Reg./Ren. 1 year
5639-TAC		ProtectTIER Entry Edition After license 1 year
5639-TAD		ProtectTIER Entry Edition Registration 3 year
5639-TAE		ProtectTIER Entry Edition Renewal 3 year
5639-TAF		ProtectTIER Entry Edition After license 3 year
5639-TAG		ProtectTIER Entry Edition Registration 2 year
5639-TAH		ProtectTIER Entry Edition Registration 4 year
5639-TAI		ProtectTIER Entry Edition Registration 5 year

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## Product identification number

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Program PID number	First Yr Reg and Maintenance 1 year Renewal PID number	Maintenance 1 year After License PID number
5639-TAA	5639-TAB	5639-TAC
	Maintenance 3 year Registration PID number	Maintenance 3 year Renewal PID number
	5639-TAD	5639-TAE
	Maintenance 3 year After License	

PID number	
5639-TAF	
Maintenance 2 year Registration PID number	Maintenance 4 year Registration PID number
5639-TAG	5639-TAH
Maintenance 5 year Registration PID number	
5639-TAI	

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## Offering Information

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Product information is available via the Offering Information website

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

### **Business Partner information**

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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=210-376>

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## Publications

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All required publications are shipped with the corequisite IBM 3959-SM1 hardware order when the software preload feature is ordered on ProtecTIER Entry Edition software.

Publications with software relevance included in the TS7610 Publications CD-ROM, LCD8-1486, when the media supply feature is ordered for ProtecTIER Deduplication Appliance Express include:

Title	Order number
IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express Introduction and Planning Guide	GA32-0776-01
IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express Installation and Setup Guide for Virtual Tape Systems	GA32-0777-01
IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express Installation and Setup Guide for OpenStorage Systems	GA32-0836-00
IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express Software Upgrade Guide	GA32-0837-00
IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express Service Guide	GA32-0778-01
IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express - ProtecTIER User's and Maintenance Guide	GA32-0779-01

Publications are available on the IBM Publications Center website and are included on the *IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express Publications CD-ROM LCD8-1486*.

To order additional selected hardcopy publications for a fee or download free PDF format publications, visit the IBM Publications Center website

<http://www.ibm.com/shop/publications/order>

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## Technical information

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### Specified operating environment

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#### Hardware requirements

##### General platform prerequisites

A TS7610 Appliance OpenStorage solution with IBM ProtecTIER Deduplication software requires the IBM 3959 Model SM1 hardware with the following features:

- One 1 Gb dual port ethernet adapter feature #3448
- One OST feature #9023
- One SW Capacity feature #9313 or #9314
- One power cord feature #9950 or #9953

A TS7610 Appliance VTL solution with IBM ProtecTIER Deduplication software requires the IBM 3959 Model SM1 hardware with the following features:

- One Fibre Channel dual port HBA - Host feature #3458 or #3459
- One VTL feature #9022
- One SW Capacity feature #9313 or #9314
- One power cord feature #9950 or #9953

Customer provided monitor and keyboard are required for system installation and maintenance.

#### ProtecTIER Manager

ProtecTIER Manager is required for service or maintenance of ProtecTIER systems, and must be installed on a customer provided workstation.

The workstation must be capable of operating one of the following operating systems:

- Windows 2003, Windows XP, or Windows 7
- Red Hat Enterprise 4 or 5

The workstation must also have:

- At least 1.2 GB of available disk space
- At least 256 MB of RAM

The workstation must have access to the ProtecTIER service nodes (port 3501 is open on the firewall).

ProtecTIER Manager can support more than one ProtecTIER server. If the ProtecTIER Manager workstation is connected to more than one ProtecTIER server, they can be connected to a workstation via a switch box or via a terminal server. The workstation and switch box must be provided by the customer.

Confer with your IBM representative for workstation configuration alternatives.

### **Supported configurations**

TS7610 appliance offers two software configurations with usable repository sizes of approximately 4.4 TB and 5.9 TB. Tested platforms are listed in the Installation Guide under **Release notes**.

### **Software requirements**

#### **Operating system prerequisites**

The appropriate Linux® operating system is included with ProtecTIER Entry Edition V2.5 software and is loaded on the TS7610 Appliance with the initial order.

The ProtecTIER plug-in for OpenStorage must be installed on a NetBackup media server running NetBackup V6.5 or V7.0, and one of the following operating systems

- AIX 5.3
- AIX 6.1
- Windows 2003
- Windows 2008

#### **Connectivity prerequisites**

The supported Fiber Channel switches are listed in the System Storage Operation Center (SSIC) located at

<http://www-03.ibm.com/systems/support/storage/config/ssic/>

If this TS7610 ProtecTIER Deduplication Appliance is to be accessed via ProtecTIER Manager installed on another computer, network connections must be configured to allow access.

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.

### **Compatibility**

The ProtecTIER Entry Edition V2.5 software emulates the IBM System Storage TS3500 tape library with IBM Ultrium 3 Tape Drives.

### **Limitations**

ProtecTIER Entry Edition V2.5 software is only supported for installation on TS7610 ProtecTIER Deduplication Appliance Express hardware (3959 Model SM1).

### **Planning information**

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#### **Customer responsibilities**

Physical planning is a customer responsibility. Detailed planning information is in the *IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express Introduction and Planning Guide* (GA32-0776).

This guide is available at no charge at the IBM Publications Center. Refer to the [Publications](#) section.

## **Packaging**

For new orders of IBM System Storage ProtecTIER Entry Edition V2.5 (5639-TAA), the following media are shipped:

- With media feature 5806:
  - IBM System Storage ProtecTIER Entry Edition - Small Capacity (LCD7-4603)
  - IBM System Storage ProtecTIER Manager (LCD8-1040)
  - IBM System Storage ProtecTIER OpenStorage Plug-in (LCD8-1714)
  - IBM System Storage ProtecTIER Maintenance and Recovery Disk for 3959-SM1 (LCD7-4605)
  - IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express Publications CD-ROM (LCD8-1486)
  - IBM License Agreement for Machine Code (Z125-5468)
  - IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express Software Upgrade Guide (GA32-0837)
- With media feature 5816:
  - IBM System Storage ProtecTIER Entry Edition - Medium Capacity (LCD7-4604)
  - IBM System Storage ProtecTIER Manager (LCD8-1040)
  - IBM System Storage ProtecTIER OpenStorage Plug-in (LCD8-1714)
  - IBM System Storage ProtecTIER Maintenance and Recovery Disk for 3959-SM1 (LCD7-4605)
  - IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express Publications CD-ROM (LCD8-1486)
  - IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express - Increasing Capacity on the 3959 SM1 from 4.0 TB to 5.4 TB (GA32-0819)
  - IBM License Agreement for Machine Code (Z125-5468)
  - IBM System Storage TS7610 ProtecTIER Deduplication Appliance Express Software Upgrade Guide (GA32-0837)

The paid invoice with associated customer number acts as Proof of Entitlement (PoE) for all orders of IBM System Storage ProtecTIER Entry Edition V2.5 software.

Refer to the [Ordering information](#) section and to the Hardware Announcements listed in the [Reference information](#) section for correlated hardware order features.

Media feature 5806 causes the software DVDs for the Base Small Capacity to be shipped, and media feature 5816 causes the software DVDs for the Base Medium Capacity to be shipped.

Serial number only feature 3444 suppresses software DVDs from being shipped.

## **Security, auditability, and control**

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This product uses the security and auditability features of host hardware, host software, or application software to which it is attached. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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## **Software Services**

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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/>

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## Ordering information

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### **Charge metric**

Program name	Part number or PID number	metric
ProtectTIER Entry Edition V2.5	5639-TAA	per Storage Device

Effective December 3, 2010, IBM System Storage ProtectTIER Entry Edition V2.5 replaces the IBM System Storage ProtectTIER Entry Edition V2.1. On or after this date, IBM System Storage ProtectTIER Entry Edition V2.1 can no longer be ordered or shipped directly from IBM.

### **IBM System Storage ProtectTIER Entry Edition V2.5**

Storage Device is a unit of measure by which the Program is licensed. A Storage Device is an independently powered, channel attached device that stores or controls the storage of data on magnetic disks or solid state drives, such as disk controllers and their respective expansion units, each constituting separate Storage Devices. Licensee must obtain entitlements for every Storage Device which runs, uses services provided by, or otherwise accesses the Program and for every Storage Device on which the Program is installed.

In addition to the entitlements required for the Program directly, Licensee must obtain entitlements for this Program sufficient to cover the Storage Devices managed by the Program.

The Product Identification (PID) number for the IBM System Storage ProtectTIER Entry Edition V2 license is 5639-TAA. Features for the ProtectTIER OpenStorage interface are introduced in V2.5. The following is a description of each of the existing feature codes and the OpenStorage feature codes:

- Feature #0001 - ProtectTIER VTL Small Cap: This feature must be selected to order a base license for each TS7610 Appliance that ProtectTIER Entry Edition will be loaded on where a 4.4 TB\* (4.0 TiB\*) VTL repository will be authorized. The maximum quantity of ProtectTIER VTL Small Cap is 1. This feature is mutually exclusive with features #0003, #0007 and #0008.
- Feature #0002 - ProtectTIER Repl Small Cap: This feature must be selected to entitle the use of ProtectTIER replication on a TS7610 Appliance Express device with the small capacity repository. The maximum quantity of ProtectTIER Repl Small Cap is 1. For an initial order of #0002, either feature #0001 or #0007 must be included. To order ProtectTIER Repl Small Cap as an upgrade, either feature #0001 or #0007 must be present in the current license.
- Feature #0003 - ProtectTIER VTL Med Capacity: This feature must be selected to order a base license for each TS7610 Appliance that ProtectTIER Entry Edition will be loaded on where a 5.9 TB\* (5.4 TiB\*) virtual tape library repository will be authorized. The maximum quantity of ProtectTIER VTL Med Capacity is 1. This feature is mutually exclusive with features #0001, #0007 and #0008.
- Feature #0004 - Upgrade from VTL Small Capacity: This feature must be selected to trade-up from ProtectTIER VTL Small Cap to ProtectTIER VTL Med Capacity. The maximum quantity of feature #0004 is 1.
- Feature #0005 - ProtectTIER Repl Med Capacity: This feature must be selected to entitle the use of ProtectTIER replication on a TS7610 Appliance Express device with the medium capacity repository. The maximum quantity of ProtectTIER Repl



med Capacity is 1. For an initial order #0005, either feature #0003 or #0008 must be included. To order ProtecTIER Repl Med Capacity as an upgrade, either feature #0003, #0004, #0008 or #0009 must be present in the current license.

- Feature #0006 - Upgrade from Repl Small Capacity: This feature must be selected to migrate from ProtecTIER Repl Small Cap to ProtecTIER Repl Med Capacity. The maximum quantity of feature #0006 is 1.
- Feature #0007 - ProtecTIER OpenStorage Small Cap: This feature must be selected to order a base license for each TS7610 Appliance that ProtecTIER Entry Edition will be loaded on where a 4.4 TB\* (4.0 TiB\*) OpenStorage repository will be authorized. The maximum quantity of ProtecTIER OpenStorage Small Cap is 1. This feature is mutually exclusive with features #0001, #0003 and #0008.
- Feature #0008 - ProtecTIER OpenStorage Med Cap: This feature must be selected to order a base license for each TS7610 Appliance that ProtecTIER Entry Edition will be loaded on where a 5.9 TB\* (5.4 TiB\*) OpenStorage repository will be authorized. The maximum quantity of ProtecTIER OpenStorage Med Cap is 1. This feature is mutually exclusive with features #0001, #0003 and #0007.
- Feature #0009 - Upgrade from OpenStorage Small Cap: This feature must be selected to trade-up from ProtecTIER OpenStorage Small Cap to ProtecTIER OpenStorage Med Capacity. The maximum quantity of feature #0009 is 1.

\* 1 TB is defined as 10 to the 12th power bytes, or 1,000,000,000,000 bytes. 1 TiB is defined as 2 to the 40th power bytes, or 1,099,511,627,776 bytes.

A Software Maintenance PID must also be included to register for Software Maintenance and to be entitled for Software Subscription and Support. Registration PIDs are available for 1 year, 2 year, 3 year, 4 year or 5 year periods.

### ProtecTIER Entry Edition V2.5 billing features

5639-TAA

IBM System Storage ProtecTIER Entry Edition V2

Use Authorizations  
with One Year Software Maintenance

One-time charge features

ProtecTIER Entry Edition V2.5  
per Storage Device  
with 1 Year SW Maintenance

Feature description	OTC Feature number
ProtecTIER OpenStorage Small Cap	0007
ProtecTIER OpenStorage Medium Cap	0008
Upgrade from OpenStorage Small Cap	0009

### IBM System Storage ProtecTIER Entry Edition Software Maintenance

Order Software Maintenance Registration corresponding to each ProtecTIER Entry Edition V2.5 product base, capacity, and cluster authorization feature, for both new and upgrade orders.

Order renewals prior to the expiration of the original Software Maintenance registration period or previous Software Maintenance renewal.

5639-TAB

IBM System Storage ProtecTIER Entry Edition V2.5  
One Year Software Maintenance

ProtecTIER Entry Edition V2.5  
One Year Renewal  
No Charge Registration  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0009
ProtectTIER OST Medium Capacity	0011

One-time charge features

ProtectTIER Entry Edition V2.5  
One Year Renewal  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0010
ProtectTIER OST Medium Capacity	0012

5639-TAC

IBM System Storage ProtectTIER Entry Edition V2.5  
One Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
One Year After License  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAD

IBM System Storage ProtectTIER Entry Edition V2.5  
Three Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Three Year Registration  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAE

IBM System Storage ProtectTIER Entry Edition V2.5  
Three Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Three Year Renewal  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAF

IBM System Storage ProtectTIER Entry Edition V2.5  
Three Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Three Year After License  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAG

IBM System Storage ProtectTIER Entry Edition V2.5  
Two Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Two Year Registration  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAH

IBM System Storage ProtectTIER Entry Edition V2.5  
Four Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Four Year Registration  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAI

IBM System Storage ProtectTIER Entry Edition V2.5  
Five Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Five Year Registration

One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

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## Terms and conditions

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The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

### ***Licensing***

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

### ***Agreement for Acquisition of Software Maintenance***

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for Subscription and Support (also referred to as Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

### ***License Information form number***

L-CKOR-88LNGU

The program's license information will be available for review on the IBM Software License Agreement website

<http://www-03.ibm.com/software/sla/sladb.nsf>

### ***Limited warranty applies***

Yes

### ***Limited warranty***

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation

of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

### ***Money-back guarantee***

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

### ***Other terms***

#### ***Volume orders (IVO)***

Yes. Contact your IBM representative.

#### ***Passport Advantage applies***

No

#### ***Usage restriction***

Yes

IBM System Storage ProtecTIER Entry Edition V2.5 software (5639-TAA) is licensed on a per storage device basis.

#### ***Software Subscription and Support (Software Maintenance) applies***

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) 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 two, three, four, or five years from date of acquisition may be elected.

While your Software Subscription and Support (Software Maintenance) is in effect, IBM provides you 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://www.ibm.com/support/handbook>

Software Subscription and Support (Software Maintenance) does not include assistance for the design and development of applications, 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.

**IBM Operational Support Services - SoftwareXcel**

No

**System i Software Maintenance applies**

No

**Variable charges apply**

No

**Educational allowance available**

Yes. A 15% education allowance applies to qualified education institution customers.

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**Prices**

Information on charges is available at

<http://www.ibm.com/support>

Choose the option entitled Purchase/upgrade tools.

5639-TAA

IBM System Storage ProtecTIER Entry Edition V2.5

Use Authorizations  
with One Year Software Maintenance

One-time charge features

ProtecTIER Entry Edition V2.5  
per Storage Device  
with 1 Year SW Maintenance

Feature description	OTC Feature number
ProtecTIER OST Small Capacity	0007
ProtecTIER OST Medium Capacity	0008
Upgrade from OST Small Capacity	0009

5639-TAB

IBM System Storage ProtecTIER Entry Edition V2.5  
One Year Software Maintenance

ProtecTIER Entry Edition V2.5  
One Year Renewal  
No Charge Registration  
per Storage Device

Feature description	OTC Feature number
ProtecTIER OST Small Capacity	0009
ProtecTIER OST Medium Capacity	0011

One-time charge features

ProtecTIER Entry Edition V2.5  
One Year Renewal

One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0010
ProtectTIER OST Medium Capacity	0012

5639-TAC

IBM System Storage ProtectTIER Entry Edition V2.5  
One Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
One Year After License  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAD

IBM System Storage ProtectTIER Entry Edition V2.5  
Three Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Three Year Registration  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAE

IBM System Storage ProtectTIER Entry Edition V2.5  
Three Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Three Year Renewal  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAF

IBM System Storage ProtectTIER Entry Edition V2.5  
Three Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Three Year After License  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAG

IBM System Storage ProtectTIER Entry Edition V2.5  
Two Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Two Year Registration  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAH

IBM System Storage ProtectTIER Entry Edition V2.5  
Four Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Four Year Registration  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006

5639-TAI

IBM System Storage ProtectTIER Entry Edition V2.5  
Five Year Software Maintenance  
One-time charge features

ProtectTIER Entry Edition V2.5  
Five Year Registration  
One Time Charge  
per Storage Device

Feature description	OTC Feature number
ProtectTIER OST Small Capacity	0005
ProtectTIER OST Medium Capacity	0006



Description	Type	Feature	List Price
ProtectTIER OST Small Cap	5639TAA	0007	\$10000
ProtectTIER OST Med Cap	5639TAA	0008	25000
Upgrade from OST Small Cap	5639TAA	0009	15000
ProtectTIER OST Small Cap	5639TAB	0009	0
ProtectTIER OST Med Cap	5639TAB	0011	0
ProtectTIER OST Small Cap	5639TAB	0010	2000
ProtectTIER OST Med Cap	5639TAB	0012	5000
ProtectTIER OST Small Cap	5639TAC	0005	6000
ProtectTIER OST Med Cap	5639TAC	0006	15000
ProtectTIER OST Small Cap	5639TAD	0005	4000
ProtectTIER OST Med Cap	5639TAD	0006	10000
ProtectTIER OST Small Cap	5639TAE	0005	6000
ProtectTIER OST Med Cap	5639TAE	0006	15000
ProtectTIER OST Small Cap	5639TAF	0005	10000
ProtectTIER OST Med Cap	5639TAF	0006	25000
ProtectTIER OST Small Cap	5639TAG	0005	2000
ProtectTIER OST Med Cap	5639TAG	0006	5000
ProtectTIER OST Small Cap	5639TAH	0005	6000
ProtectTIER OST Med Cap	5639TAH	0006	15000
ProtectTIER OST Small Cap	5639TAI	0005	8000
ProtectTIER OST Med Cap	5639TAI	0006	20000

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## Corrections

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**(Corrected on November 15, 2010)**

The Description and Hardware requirements sections have been updated.