



IBM System Storage Linear Tape File System Library Edition Version 2.1

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At a glance

IBM® System Storage® Linear Tape File System (LTFS) Library Edition V2.1 enables read, write, search, and indexing of user metadata, as well as access to the user data.

Metadata is the descriptive information about user data stored on a cartridge, and it enables searching and accessing of files via the graphical user interface of the operating system. With graphic search, read, and write, it can be easier to write and read files using LTFS Library Edition as compared to using traditional tape management software.

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

Overview

IBM LTFS Library Edition extends the capability of the IBM LTFS File Manager Single Drive Edition to the IBM System Storage TS2900 and TS3310 systems. LTFS Library Edition enables mounting of the library as a file system and indexing of LTO data, while the file manager manages the automation and provides operating system level access to all the content in the library. LTFS Library Edition is based on the LTFS format specification, enabling tape library cartridges to be 100% interchangeable with cartridges written with the open source, single drive versions of LTFS.

IBM LTFS Library Edition supports selected IBM tape library systems. This LTFS Library Edition software is required to be installed on customer server supporting RedHat Enterprise Linux® R5.5 with connection and support of selected IBM tape libraries.

Key prerequisites

- An IBM TS2900 Tape Library Engine solution with IBM LTFS Library Edition V2.1 software
- An IBM TS3310 Tape Library Engine solution with IBM LTFS Library Edition V2.1 software
- Linux RHEL 5.5 installed

Planned availability date

August 9, 2011

Description

IBM LTFS Library Edition extends the capability of the IBM LTFS file manager Single Drive edition to the TS2900 and TS3310 systems. With LTFS Library Edition, LTO data stored in these tape libraries can be indexed for ease of use. LTFS Library Edition enables mounting of the library as a file system, while the file manager manages the automation and provides operating system-level access to all the content in the library. LTFS Library Edition is based on the LTFS format specification, so tape library cartridges are 100% interchangeable with cartridges written with the open source, single drive versions of LTFS.

Accessibility by people with disabilities

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

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

Product positioning

With LTFS, accessing data stored on an IBM tape cartridge is as easy and intuitive as using a USB flash drive. With LTFS and the operating system's graphical file manager, reading data on a tape cartridge is as easy as dragging and dropping. Any application designed for disk files can be treated as tape data without concern for the fact that the data is physically stored on tape.

IBM LTFS Library Edition adds support for IBM tape automation in addition to the single drive-use LTFS. Library Edition provides the ability to create a single file system mount point for a logical library managed by a single instance of LTFS, running on a single computer system. In addition, it provides for caching of tape indices in memory and for searching, querying, and displaying tape contents within an IBM tape Library without the requirement to mount tape cartridges.

Since the invention of disk storage, tape has been viewed as complex and difficult to use since it has required tape device specific software to read, write, and manage data stored on tape cartridges in tape libraries. Even with tape management software, file access was not intuitive since it required knowledge of what cartridge volume contained the file you needed. The standard disk interfaces of operating systems did not enable direct reading and writing to tape cartridges stored in tape libraries. Operating systems were not typically shipped with 'built-in' tape library support.

IBM recognizes that in order to be an attractive, more widely usable storage medium, tape must be as easy to use as other storage media, such as disk and removable flash media. This requires a file system interface that behaves like disk with the flash drive-like ability to share data without regard to platform. Designed to meet these needs, LTFS Library Edition offers:

- The ability to manage scheduling and accessing tape cartridges in multiple drives
- The ability to recognize the cartridges in a library at library mount time and create a file system directory (under the Library) for each cartridge in the library
- The ability to pre-populate the file system directories for the cartridge with information from the cached index at library mount time, allowing for listing and searching of the contents of all known tape cartridges without having to physically load each cartridge into a tape drive

Reference information

Refer to Software Announcement [211-168](#), dated May 09, 2011.

Program number

IBM LTFS Library Edition V2.1

Program number	VRM	Program name
5639-LT1	2.1.0	IBM LTFS Library Edition V2.1

Software Maintenance:

5639-LT2	IBM LTFS Library Edition 1year Registration and Renewal
5639-LT3	IBM LTFS Library Edition 1year After License
5639-LT4	IBM LTFS Library Edition 2year Registration
5639-LT5	IBM LTFS Library Edition 3year Registration
5639-LT6	IBM LTFS Library Edition 3year Renewal
5639-LT7	IBM LTFS Library Edition 3year After License
5639-LT8	IBM LTFS Library Edition 4year Registration
5639-LT9	IBM LTFS Library Edition 5year Registration

Product identification number

IBM LTFS Library Edition V2.1

Program PID number	First Yr Reg and Maintenance 1 year Renewal PID number	Maintenance 1 year After License PID number
5639-LT1	5639-LT2	5639-LT3
	Maintenance 3 year Registration PID number	Maintenance 3 year Renewal PID number
	5639-LT5	5639-LT6
	Maintenance 3 year After License PID number	
	5639-LT7	
	Maintenance 2 year	Maintenance 4 year

Registration PID number	Registration PID number
5639-LT4	5639-LT8
Maintenance 5 year	
Registration PID number	
5639-LT9	

Offering Information

Product information is available via the Offering Information website

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

Publications

No publications are shipped with this program.

Publications with software relevance included in the TS2900, TS3310 Publications DVD-ROM, when the media supply feature is ordered for IBM LTFS Library Edition Version 2.1.0.

Publications are available on the IBM Publications Center website and are included on the IBM System Storage TS2900 and TS3310 automation.

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>

Technical information

Specified operating environment

Hardware requirements

General platform prerequisites

IBM Tape Library with one or more LTO 5 Tape Drives PC with x86 or x64 processor architecture:

- DVD-ROM drive for LTFS software installation
- One or more SAS or Fibre Channel Host Bus Adapter with matching connection type LTO 5 tape cartridges

The runtime memory and disk space requirements may be found in documentation accompanying the program.

Software requirements

Operating system prerequisites

Redhat Enterprise Linux (RHEL) Version 5.5 needs to be installed prior to installing LTFS Library Edition. LTFS Library Edition depends on the following software components, and are installed and configured by default OS installation:

```
libfuse
libxml2
libuuid
libc
openssl
python
```

Connectivity prerequisites

LTO 5 Ultrium drive supported Fiber Channel switches listed in the System Storage Operation Center (SSIC) located at

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

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.

Companion products

None

Compatibility

The tape cartridges formatted and written by this software comply with the LTFS Format Specification 2.0.0, and can be read by LTFS Single Drive Edition 1.2.0 or later, when the cartridge is exported from the library.

Limitations

- No additional operating systems offer support for LTFS Library Edition beyond Linux RHEL 5.5 at this time.
- Data Path Failover with LTFS Library Edition is not supported at this time.
- "Per Install" LTFS Library Edition license feature is required for each selected IBM Tape Library with each two Tape Drives.

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

Customer responsibilities

Physical planning is a customer responsibility. Detailed planning information is in the IBM LTFS Information Center

<http://publib.boulder.ibm.com/infocenter/ltfs/cust/index.jsp>

Direct customer support

IBM Technical Support Services provides comprehensive hardware and Software support, including hardware and software implementation for the IBM LTFS.

For technical support or assistance, contact your IBM representative or visit

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

Technical Support Services are designed to support your installations of IBM System Storage hardware and software. Offering the best solutions for storage management and data migration, IBM Technical Support Services can assist you in developing and deploying storage solutions to enable your success and satisfaction. For more information, contact your IBM representative or Business Partner.

Packaging

For new orders of IBM LTFS Library Edition V2.1.0 (5639-LT1), the following media are shipped with media feature 5806:

- LTFS LE Version 2.1.0 (LCD7-5224)

Security, auditability, and control

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.

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

Program name	Part number or PID number	Charge metric
IBM LTFS Library Edition V2.1 for TS2900 and TS3310 Tape Libraries	5639-LT1	Per Install

Install

Install is a unit of measure by which the program can be licensed. An install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

IBM LTFS Library Edition V2.1

Program name: IBM LTFS Library Edition
Program PID: 5639-LT1

5639-LT1:
IBM Linear Tape File System Library Edition V2.1

Use Authorizations
with One Year Software Maintenance

One-time charge features

IBM LTFS Library Edition
per Install with 1 Year
SW Maintenance

Feature description	OTC Feature number
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Per Install with 1 Year SW Maintenance for TS3310 Tape Library each with 2 drives	0003
Per 250 Install with 1 Year SW Maintenance for TS3310 Tape Library each with 2 drives	0004
Per Install with 1 Year SW Maintenance for TS2900 Tape Autoloader	0007
Per 250 Install with 1 Year SW Maintenance for TS2900 Tape Autoloader	0008
Feature description	Feature number
Supply feature code	5806

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after license feature number.

IBM LTFS Library Edition Software Maintenance

5639-LT2:
IBM Linear Tape File System Library Edition V2.1
One Year Software Maintenance

IBM LTFS Library Edition
No Charge Registration
per Install

Feature description	OTC Feature number
Per Install SW Maintenance No Charge Registration for TS3310 Tape Library each with 2 drives	0005
Per 250 Install SW Maintenance No Charge Registration for TS3310 Tape Library each with 2 drives	0006
Per Install SW Maintenance No Charge Registration for TS2900 Tape Autoloader	0013
Per 250 Install SW Maintenance No Charge Registration for TS2900 Tape Autoloader	0014

One-time charge features

IBM LTFS Library Edition
One Year Renewal
One Time Charge
per Install

Feature description	OTC Feature number
Per Install SW Maintenance 1 Year Renewal for TS3310 Tape Library each with 2 drives	0007
Per 250 Install SW Maintenance 1 Year Renewal for TS3310 Tape Library each with 2 drives	0008
Per Install SW Maintenance 1 Year Renewal for TS2900 Tape Autoloader	0015
Per 250 Install SW Maintenance 1 Year Renewal for TS2900 Tape Autoloader	0016

5639-LT3:
IBM Linear Tape File System Library Edition V2.1
One Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
One Year After License
One Time Charge
per Install

Feature description	OTC Feature number
Per Install SW Maintenance 1 Year After License for TS3310 Tape Library each with 2 drives	0003
Per 250 Install SW Maintenance 1 Year After License for TS3310 Tape Library each with 2 drives	0004
Per Install SW Maintenance 1 Year After License for TS2900 Tape Autoloader	0007
Per 250 Install SW Maintenance 1 Year After License for TS2900 Tape Autoloader	0008

5639-LT4:
IBM Linear Tape File System Library Edition V2.1
Two Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Two Year Registration
One Time Charge
per Install

Feature description	OTC Feature number
---------------------	--------------------

Per Install SW Maintenance 0003
2 Year Registration
for TS3310 Tape Library
each with 2 drives

Per 250 Install SW Maintenance 0004
2 Year Registration
for TS3310 Tape Library
each with 2 drives

Per Install SW Maintenance 0007
2 Year Registration
for TS2900 Tape Autoloader

Per 250 Install SW Maintenance 0008
2 Year Registration
for TS2900 Tape Autoloader

5639-LT5:
IBM Linear Tape File System Library Edition V2.1
Three Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Three Year Registration
One Time Charge
per Install

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year Registration for TS3310 Tape Library each with 2 drives	0003

Per 250 Install SW Maintenance 3 Year Registration for TS3310 Tape Library each with 2 drives	0004
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Per Install SW Maintenance 3 Year Registration for TS2900 Tape Autoloader	0007
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Per 250 Install SW Maintenance 3 Year Registration for TS2900 Tape Autoloader	0008
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5639-LT6:
IBM Linear Tape File System Library Edition V2.1
Three Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Three Year Renewal
One Time Charge
per Install

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year Renewal for TS3310 Tape Library each with 2 drives	0003

Per 250 Install SW Maintenance 0004
3 Year Renewal
for TS3310 Tape Library
each with 2 drives

Per Install SW Maintenance 0007
3 Year Renewal
for TS2900 Tape Autoloader

Per 250 Install SW Maintenance 0008
3 Year Renewal
for TS2900 Tape Autoloader

5639-LT7:
IBM Linear Tape File System Library Edition V2.1
Three Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Three Year After License
One Time Charge
per Install

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year After License for TS3310 Tape Library each with 2 drives	0003
Per 250 Install SW Maintenance 3 Year After License for TS3310 Tape Library each with 2 drives	0004
Per Install SW Maintenance 3 Year After License for TS2900 Tape Autoloader	0007
Per 250 Install SW Maintenance 3 Year After License for TS2900 Tape Autoloader	0008

5639-LT8:
IBM Linear Tape File System Library Edition V2.1
Four Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Four Year Registration
One Time Charge
per Install

Feature description	OTC Feature number
Per Install SW Maintenance 4 Year Registration for TS3310 Tape Library each with 2 drives	0003
Per 250 Install SW Maintenance 4 Year Registration for TS3310 Tape Library each with 2 drives	0004

Per Install SW Maintenance 0007
4 Year Registration
for TS2900 Tape Autoloader

Per 250 Install SW Maintenance 0008
4 Year Registration
for TS2900 Tape Autoloader

5639-LT9:
IBM Linear Tape File System Library Edition V2.1
Five Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Five Year Registration
One Time Charge
per Install

Feature description	OTC Feature number
Per Install SW Maintenance 5 Year Registration for TS3310 Tape Library each with 2 drives	0003
Per 250 Install SW Maintenance 5 Year Registration for TS3310 Tape Library each with 2 drives	0004
Per Install SW Maintenance 5 Year Registration for TS2900 Tape Autoloader	0007
Per 250 Install SW Maintenance 5 Year Registration for TS2900 Tape Autoloader	0008

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

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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

LICR ID # L-SSCZ-8FXQUN

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

<http://www.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 Library Tape File System V2.1 software (5639-LT1) is licensed on a per Install basis.

Software Subscription and Support 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 three 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

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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.

Prices

Information on charges is available at

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

Choose the option entitled Purchase/upgrade tools.

IBM LTFS Library Edition V2.1

Program name: IBM LTFS Library Edition
Program PID: 5639-LT1

5639-LT1:
IBM Linear Tape File System Library Edition V2.1

Use Authorizations

with One Year Software Maintenance

One-time charge features

IBM LTFS Library Edition
per Install
with 1 Year SW Maintenance

Feature description	OTC Feature number
Per Install with 1 Year SW Maintenance for TS3310 Tape Library each with 2 drives	0003
Per 250 Install with 1 Year SW Maintenance for TS3310 Tape Library each with 2 drives	0004
Per Install with 1 Year SW Maintenance for TS2900 Tape Autoloader	0007
Per 250 Install with 1 Year SW Maintenance for TS2900 Tape Autoloader	0008
Feature description	Feature number
Supply feature code	5806

IBM LTFS Library Edition Software Maintenance

5639-LT2:
IBM Linear Tape File System Library Edition V2.1
One Year Software Maintenance

IBM LTFS Library Edition
No Charge Registration
per Install

Feature description	OTC Feature number
Per Install SW Maintenance No Charge Registration for TS3310 Tape Library each with 2 drives	0005
Per 250 Install SW Maintenance No Charge Registration for TS3310 Tape Library each with 2 drives	0006
Per Install SW Maintenance No Charge Registration for TS2900 Tape Autoloader	0013
Per 250 Install SW Maintenance No Charge Registration for TS2900 Tape Autoloader	0014

One-time charge features

IBM LTFS Library Edition
One Year Renewal

One Time Charge
per Install

Feature description	OTC Feature number
Per Install SW Maintenance 1 Year Renewal for TS3310 Tape Library each with 2 drives	0007
Per 250 Install SW Maintenance 1 Year Renewal for TS3310 Tape Library each with 2 drives	0008
Per Install SW Maintenance 1 Year Renewal for TS2900 Tape Autoloader	0015
Per 250 Install SW Maintenance 1 Year Renewal for TS2900 Tape Autoloader	0016

5639-LT3:
IBM Linear Tape File System Library Edition V2.1
One Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
One Year After License
One Time Charge
per Install

Feature description	OTC Feature number
Per Install SW Maintenance 1 Year After License for TS3310 Tape Library Library each with 2 drives	0003
Per 250 Install SW Maintenance 1 Year After License for TS3310 Tape Library Library each with 2 drives	0004
Per Install SW Maintenance 1 Year After License for TS2900 Tape Autoloader	0007
Per 250 Install SW Maintenance 1 Year After License for TS2900 Tape Autoloader	0008

5639-LT4:
IBM Linear Tape File System Library Edition V2.1
Two Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Two Year Registration
One Time Charge
per Install

Feature description	OTC Feature number
------------------------	--------------------------

Per Install SW Maintenance 0003
2 Year Registration
for TS3310 Tape Library
each with 2 drives

Per 250 Install SW Maintenance 0004
2 Year Registration
for TS3310 Tape Library
each with 2 drives

Per Install SW Maintenance 0007
2 Year Registration
for TS2900 Tape Autoloader

Per 250 Install SW Maintenance 0008
2 Year Registration
for TS2900 Tape Autoloader

5639-LT5:
IBM Linear Tape File System Library Edition V2.1
Three Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Three Year Registration
One Time Charge
per Install

Feature description	OTC Feature number
---------------------	--------------------

Per Install SW Maintenance 3 Year Registration for TS3310 Tape Library Library each with 2 drives	0003
--	------

Per 250 Install SW Maintenance 3 Year Registration for TS3310 Tape Library Library each with 2 drives	0004
--	------

Per Install SW Maintenance 3 Year Registration for TS2900 Tape Autoloader	0007
---	------

Per 250 Install SW Maintenance 3 Year Registration for TS2900 Tape Autoloader	0008
---	------

5639-LT6:
IBM Linear Tape File System Library Edition V2.1
Three Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Three Year Renewal
One Time Charge
per Install

Feature description	OTC Feature number
---------------------	--------------------

Per Install SW Maintenance 3 Year Renewal for TS3310 Tape Library each with 2 drives	0003
--	------

Per 250 Install SW Maintenance 3 Year Renewal for TS3310 Tape Library each with 2 drives	0004
--	------

Per Install SW Maintenance 0007
3 Year Renewal
for TS2900 Tape Autoloader

Per 250 Install SW Maintenance 0008
3 Year Renewal
for TS2900 Tape Autoloader

5639-LT7:
IBM Linear Tape File System Library Edition V2.1
Three Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Three Year After License
One Time Charge
per Install

Feature description	OTC Feature number
---------------------	--------------------

Per Install SW Maintenance 3 Year After License for TS3310 Tape Library Library each with 2 drives	0003
---	------

Per 250 Install SW Maintenance 3 Year After License for TS3310 Tape Library Library each with 2 drives	0004
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Per Install SW Maintenance 3 Year After License for TS2900 Tape Autoloader	0007
--	------

Per 250 Install SW Maintenance 3 Year After License for TS2900 Tape Autoloader	0008
--	------

5639-LT8:
IBM Linear Tape File System Library Edition V2.1
Four Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Four Year Registration
One Time Charge
per Install

Feature description	OTC Feature number
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Per Install SW Maintenance 4 Year Registration for TS3310 Tape Library Library each with 2 drives	0003
--	------

Per 250 Install SW Maintenance 4 Year Registration for TS3310 Tape Library Library each with 2 drives	0004
--	------

Per Install SW Maintenance 4 Year Registration for TS2900 Tape Autoloader	0007
---	------

Per 250 Install SW Maintenance 4 Year Registration	0008
---	------

for TS2900 Tape Autoloader

5639-LT9:

IBM Linear Tape File System Library Edition V2.1
Five Year Software Maintenance
One-time charge features

IBM LTFS Library Edition
Five Year Registration
One Time Charge
per Install

Feature description	OTC Feature number
Per Install SW Maintenance 5 Year Registration for TS3310 Tape Library Library each with 2 drives	0003
Per 250 Install SW Maintenance 5 Year Registration for TS3310 Tape Library Library each with 2 drives	0004
Per Install SW Maintenance 5 Year Registration for TS2900 Tape Autoloader	0007
Per 250 Install SW Maintenance 5 Year Registration for TS2900 Tape Autoloader	0008

Pricing terms

Prices in the following PDF prices link are suggested list prices on day of announcement for the U.S. only. They are provided for your information only. Dealer prices may vary, and prices may also vary by country. IBM list price does not include tax or shipping and is subject to change without notice.

[ENUS-211-239-List_prices_2011_07_12.PDF](#)

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Order now

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Markham, Ontario
Canada
L3R 2Z1

Reference: YE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

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<http://www.ibm.com/legal/us/en/>

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>

Corrections

(Corrected on August 1, 2011)

The Planned availability date has been updated.