



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 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.

Overview

IBM LTFS Library Edition extends the capability of the IBM LTFS File Manager Single Drive Edition to the IBM System Storage TS3500, TS3200, and TS3100. 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. PID 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 TS3500 Tape Library Engine solution with IBM Linear Tape File System (LTFS) Library Edition V2.1 software.
- An IBM TS3100/TS3200 Tape Libraries Engines solution with IBM Linear Tape File System (LTFS) Library Edition V2.1 software
- Linux RHEL 5.5 installed

Planned availability date

June 17, 2011

Availability of programs with encryption algorithm in France is subject to French government approval.

Cryptography in this product is limited to password encryption, authentication or digital signature.

Description

IBM LTFS Library Edition extends the capability of the IBM LTFS file manager Single Drive edition (SDE) to the TS3500, TS3200 and TS3100. Customers who would benefit from indexing their LTO data stored in these tape libraries for ease of use can now do so with LTFS Library Edition. 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 became as easy and intuitive as using a Universal Serial Bus (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. Users can run any application designed for disk files against tape data without concern for the fact that the data is physically stored on tape.

IBM LTFS Library Edition (LE) adds support for IBM tape automation in addition to the single drive-use LTFS. LE 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 tapes' 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, until now, 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. And, 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 the other storage media like disk and removable flash media. This requires a file system interface that behaves like disk, as well as 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. Optionally, the cartridges' file system directories can be pre-populated with information from the cached index at library mount time, allowing listing/searching the contents of all known tape cartridges without having to physically load each cartridge into a tape drive.

Program number

CC#1 Library Edition for TS3500 Tape Library with each two drives

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

CC#2 Library Edition for TS3100 / TS3200 Tape Library each with two drives

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

CC#1 Library Edition for TS3500 Tape Library with each two drives

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 Registration PID number	Maintenance 4 year Registration PID number
5639-LT4	5639-LT8
Maintenance 5 year Registration PID number	
5639-LT9	

CC#2 Library Edition for TS3100 / TS3200 Tape Library each with two drives

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 Registration PID number	Maintenance 4 year 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 TS3500, TS3100, TS3200 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 TS3500, TS3100, TS3200 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 on the PC 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 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 for each selected IBM Tape Library with each two Tape Drives.

For additional information, refer to **Usage restrictions** in the Terms and conditions section of this announcement, or to the license information document that is available on the IBM Software License Agreement 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 Linear Tape File System (LTFS) Information Center

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

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.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

Ordering information

Consult your IBM representative.

Charge metric

Program name	Part number or PID number	Charge metric
IBM LTFS Library Edition V2.1 for TS3500 and TS3100/TS3200 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.

5639-LT1 - IBM LTFS Library Edition V2.1
(Option name)

Basic license one-time charge
upgrade path

Feature description	Feature number
LTFS Library Edition V2.1	5806

CC#1 Library Edition for TS3500 Tape Library with each two drives

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

Contact your local IBM representative for the applicable charges.

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 for TS3500 Tape
Library with each 2 drives
with 1 Year SW Maintenance

Feature description	OTC Feature number
Per Install with 1 Year SW Maintenance	U9WDC1
Per 250 Install with 1 Year SW Maintenance	B9WDF2

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 for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance No Charge Registration	U9WEC2
Per 250 Install SW Maintenance No Charge Registration	L9WEF4

One-time charge features

IBM LTFS Library Edition
One Year Renewal
One Time Charge
per Install for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 1 Year Renewal	U9WEC3
Per 250 Install SW Maintenance 1 Year Renewal	L9WEF5

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 for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 1 Year After License	U9WFC4
Per 250 Install SW Maintenance 1 Year After License	L9WFF6

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 for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 2 Year Registration	M9WGTA
Per 250 Install SW Maintenance 2 Year Registration	X9WG41

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 for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year Registration	U9WHC5
Per 250 Install SW Maintenance 3 Year Registration	L9WHF7

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 for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year Renewal	U9WJC6
Per 250 Install SW Maintenance 3 Year Renewal	L9WJF8

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 for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year After License	U9WKC7
Per 250 Install SW Maintenance 3 Year After License	L9WKF9

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 for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 4 Year Registration	M9WLTB
Per 250 Install SW Maintenance 4 Year Registration	X9WL42

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 for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 5 Year Registration	M9WMTC
Per 250 Install SW Maintenance 5 Year Registration	X9WM43

CC#2 Library Edition for TS3100 / TS3200 Tape Library each with two drives

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

Contact your local IBM representative for the applicable charges.

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 for TS3100/TS3200 Tape
Library each with 2 drives
with 1 Year SW Maintenance

Feature description	OTC Feature number
Per Install with 1 Year SW Maintenance	U9X8C1
Per 250 Install with 1 Year SW Maintenance	B9X8F2

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance No Charge Registration	U9X9C2
Per 250 Install SW Maintenance No Charge Registration	L9X9F4

One-time charge features

IBM LTFS Library Edition
One Year Renewal
One Time Charge
per Install for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 1 Year Renewal	U9X9C3
Per 250 Install SW Maintenance 1 Year Renewal	L9X9F5

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 1 Year After License	U9YAC4
Per 250 Install SW Maintenance 1 Year After License	L9YAF6

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 2 Year Registration	M9YBTA
Per 250 Install SW Maintenance 2 Year Registration	X9YB41

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year Registration	U9YCC5
Per 250 Install SW Maintenance 3 Year Registration	L9YCF7

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year Renewal	U9YDC6
Per 250 Install SW Maintenance 3 Year Renewal	L9YDF8

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year After License	U9YEC7
Per 250 Install SW Maintenance 3 Year After License	L9YEF9

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 4 Year Registration	M9YFTB
Per 250 Install SW Maintenance 4 Year Registration	X9YF42

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 for TS3100/TS3200 Tape
 Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 5 Year Registration	M9YGTC
Per 250 Install SW Maintenance 5 Year Registration	X9YG43

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.

CC#1 Library Edition for TS3500 Tape Library with each two drives

Order Software Maintenance Registration corresponding to each CC#1 Library Edition for TS3500 Tape Library with each two drives

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

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

IBM LTFS Library Edition
 No Charge Registration
 per Install for TS3500 Tape
 Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance No Charge Registration	U9WEC2
Per 250 Install SW Maintenance No Charge Registration	L9WEF4

One-time charge features

IBM LTFS Library Edition
 One Year Renewal
 One Time Charge
 per Install for TS3500 Tape
 Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 1 Year Renewal	U9WEC3

Per 250 Install SW Maintenance L9WEF5
1 Year Renewal

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 for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 1 Year After License	U9WFC4
Per 250 Install SW Maintenance 1 Year After License	L9WFF6

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 for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 2 Year Registration	M9WGTA
Per 250 Install SW Maintenance 2 Year Registration	X9WG41

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 for TS3500 Tape
Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year Registration	U9WHC5
Per 250 Install SW Maintenance 3 Year Registration	L9WHF7

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 for TS3500 Tape
 Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year Renewal	U9WJC6
Per 250 Install SW Maintenance 3 Year Renewal	L9WJF8

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 for TS3500 Tape
 Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year After License	U9WKC7
Per 250 Install SW Maintenance 3 Year After License	L9WKF9

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 for TS3500 Tape
 Library with each 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 4 Year Registration	M9WLTB
Per 250 Install SW Maintenance 4 Year Registration	X9WL42

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 for TS3500 Tape
 Library with each 2 drives

Feature description	OTC Feature number
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Per Install SW Maintenance	M9WMTC
5 Year Registration	
Per 250 Install SW Maintenance	X9WM43
5 Year Registration	

CC#2 Library Edition for TS3100 / TS3200 Tape Library each with two drives

Order Software Maintenance Registration corresponding to each CC#2 Library Edition for TS3100 / TS3200 Tape Library each with two drives

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

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

IBM LTFS Library Edition
 No Charge Registration
 per Install for TS3100/TS3200 Tape
 Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance	U9X9C2
No Charge Registration	
Per 250 Install SW Maintenance	L9X9F4
No Charge Registration	

One-time charge features

IBM LTFS Library Edition
 One Year Renewal
 One Time Charge
 per Install for TS3100/TS3200 Tape
 Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance	U9X9C3
1 Year Renewal	
Per 250 Install SW Maintenance	L9X9F5
1 Year Renewal	

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 for TS3100/TS3200 Tape
 Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance	U9YAC4
1 Year After License	
Per 250 Install SW Maintenance	L9YAF6

1 Year After License

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 2 Year Registration	M9YBTA
Per 250 Install SW Maintenance 2 Year Registration	X9YB41

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year Registration	U9YCC5
Per 250 Install SW Maintenance 3 Year Registration	L9YCF7

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year Renewal	U9YDC6
Per 250 Install SW Maintenance 3 Year Renewal	L9YDF8

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 3 Year After License	U9YEC7
Per 250 Install SW Maintenance 3 Year After License	L9YEF9

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 4 Year Registration	M9YFTB
Per 250 Install SW Maintenance 4 Year Registration	X9YF42

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 for TS3100/TS3200 Tape
Library each with 2 drives

Feature description	OTC Feature number
Per Install SW Maintenance 5 Year Registration	M9YGTC
Per 250 Install SW Maintenance 5 Year Registration	X9YG43

Terms and conditions

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

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.

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Other terms

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Passport Advantage applies

No

Usage restriction

Yes

IBM Library Tape File System V2.1 software (5639-LT1) is licensed on a per Install basis.

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Variable charges apply

No

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