



IBM Linear Tape File System Storage Manager (LTFS Storage Manager) V1R1 offers Digital Archive Solutions Architecture

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At a glance

The expanded functionality of Linear Tape File System™ (LTFS) Library Edition provides LTFS Storage management capabilities for IBM® branded automation, drives, and media.

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

Overview

IBM LTFS Storage Manager V1R1 data management capability is focused on media assets, including video, using IBM LTO-5 and TS1140-based Tape libraries and IBM Linear Tape File System Library Edition. IBM LTFS Library Edition V2R1.1 or later is required with the installation of IBM LTFS Storage Manager V1R1.

IBM LTFS Storage Manager provides storage lifecycle management of multimedia files using IBM Linear Tape File System , which can significantly help reduce video archive costs.

Key prerequisites

IBM LTFS Storage Manager software sits on top of IBM LTFS Library Edition software (LTFS LE) in the code stack to create the LTFS file system, enabling an IBM tape library to be read, written, and searched. IBM LTFS LE V2R1.1 is a corequisite to IBM LTFS Storage Manager.

If Material Exchange Format (MXF) files are going to be utilized within this solution, OpenCube software will be required and must be ordered separately.

Planned availability date

June 8, 2012

Description

IBM LTFS Storage Manager V1R1 is based on components of the Archive and Essence Manager (AREMA) from Global Business Services® (GBS) offering and expands data management with a focus on media assets, including video, using IBM LTO-5 and TS1140-based Tape libraries and IBM Linear Tape File System Library Edition.

IBM LTFS Storage Manager provides storage lifecycle management of multimedia files using IBM Linear Tape File System , which can significantly help reduce video archive costs.

LTFS Storage Manager software is designed to:

- Increase flexibility with enterprise-wide management of tape cartridge-based project files and archived files
- Increase ease-of-use when working with media content on LTFS-based tape cartridges
- Integrate to major media and entertainment industry formats with an open interface to enterprise applications
- Build on the functionality of LTFS LE:
 - Create, manage, and optimize video archives using IBM LTO-5 tape storage
 - Manage concurrent copies of content, plus active, inactive, and offsite content

Accessibility by people with disabilities

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

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

Reference information

For information on IBM Linear Tape File System (LTFS) Storage Manager Version 1.1 (5639-TL1) refer to Software Announcement [212-194](#), dated June 04, 2012 , and for information on IBM Linear Tape File System (LTFS) Library Edition Version 2.1 (5639-LT1), refer to Software Announcement [211-239](#), dated July 12, 2011 .

Program number

IBM LTFS Storage Manager V1R1

Program number	VRM	Program name
5639-TL1	1.1.0	IBM LTFS Storage Manager V1R1
Software Maintenance:		
5639-TL2		IBM LTFS Storage Manager V1R1 1 year Registration and Renewal
5639-TL3		IBM LTFS Storage Manager V1R1 1 year After License
5639-TL4		IBM LTFS Storage Manager V1R1 2 year Registration
5639-TL5		IBM LTFS Storage Manager V1R1 3 year Registration

5639-TL6	IBM LTFS Storage Manager V1R1 3 year Renewal
5639-TL7	IBM LTFS Storage Manager V1R1 3 year After License
5639-TL8	IBM LTFS Storage Manager V1R1 4 year Registration
5639-TL9	IBM LTFS Storage Manager V1R1 5 year Registration

Product identification number

IBM LTFS Storage Manager V1R1

Program PID number	First Yr Reg and Maintenance 1 year Renewal PID number	Maintenance 1 year After License PID number
5639-TL1	5639-TL2	5639-TL3
	Maintenance 3 year Registration PID number	Maintenance 3 year Renewal PID number
	5639-TL5	5639-TL6
	Maintenance 3 year After License PID number	
	5639-TL7	
	Maintenance 2 year Registration PID number	Maintenance 4 year Registration PID number
	5639-TL4	5639-TL8
	Maintenance 5 year Registration PID number	
	5639-TL9	

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM , you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=212-194>

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 are included in the TS3500, TS3310, TS3100, TS3200, and TS2900 publications DVD-ROM, when the media supply feature is ordered for the IBM Linear Tape File System Storage Manager V1R1.

The Linear Tape File System Storage Manager Information Center, which contains introductory, planning, managing, programming, and troubleshooting information about the LTFS Storage Manager, is available on the web at

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

Publications about supported tape libraries and tape drives are available on the IBM Publications Center website. To order additional selected hardcopy publications for a fee or download free PDF format publications, visit the IBM Publications Center on the web at

<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 or TS1140 Tape Drives and PC with x86 or x64 processor architecture:

- DVD-ROM drive for LTFS Storage Manager software installation
- One or more SAS or Fibre Channel host bus adapter with matching connection type
- LTO 5 or TS1140 tape cartridges

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

Software requirements

LTFS Storage Manager software sits on top of LTFS Library Edition software (LTFS LE) in the code stack which creates the LTFS file system, enabling an IBM tape library to be read, written, and searched. IBM LTFS LE V2R1.1 is a corequisite to IBM LTFS Storage Manager.

Operating system prerequisites

Redhat Enterprise Linux™ (RHEL) Version 5.7 or 6.1 needs to be installed prior to installing LTFS Storage Manager.

Connectivity prerequisites

LTO 5 Ultrium™ and TS1140 drives in supported IBM Tape Libraries and Fibre 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.

Limitations

- No additional operating systems offer support for LTFS Storage Manager beyond Linux RHEL 5.7 and 6.1 at this time.
- Per Install LTFS Storage Manager 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 Storage Manager Information Center

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

Installability

Direct customer support

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

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

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

Packaging

For new orders of IBM LTFS Storage Manager V1R1 (5639-TL1), the following media are shipped with media feature 5806:

- LTFS Storage Manager Version 1.1.0 (LCD7-5609)

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 Storage Manager V1R1	5639-TL1	Per Install and Per Additional 2 Installs

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 Storage Manager V1R1

Program name: IBM LTFS Storage Manager V1R1
Program PID: 5639-TL1

5639-TL1:
IBM LTFS Storage Manager V1R1

Use Authorizations
with One Year Software Maintenance

One-time charge features

IBM LTFS Storage Manager V1R1
per Install with 1 Year
SW Maintenance

Feature description	OTC Feature number
Per Install with 1 Year SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Additional 2 Installs with 1 Year SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 1 Year SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 1 Year SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 1 Year SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
Per Additional 2 Installs with 1 Year SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006
Per Install with 1 Year SW Maintenance for TS2900 Tape Autoloader	0007

Feature description	Feature number
Supply feature code	5806
serial number only	3444

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 Storage Manager V1R1 Software Maintenance

5639-TL2:

IBM LTFS Storage Manager
No Charge Registration,
1 year Renewal
Software Maintenance

Feature description	OTC Feature number
Per Install No Charge Registration SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Install 1 year Renewal SW Maintenance for TS3500 Tape Library to 2 Drives	0002
Per Additional 2 Installs No Charge Registration SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0003
Per Additional 2 Installs 1 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0004
Per Install No Charge Registration SW Maintenance for TS3310 Tape Library to 2 Drives	0005
Per Install 1 year Renewal SW Maintenance for TS3310 Tape Library to 2 Drives	0006
Per Additional 2 Installs No Charge Registration SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0007
Per Additional 2 Installs 1 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0008
Per Install No Charge Registration SW Maintenance for TS3100 or TS3200 Tape	0009

Library to 2 Drives

Per Install 1 year Renewal SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives 0010

Per Additional 2 Installs No Charge Registration SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library 0011

Per Additional 2 Installs 1 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library 0012

Per Install No Charge Registration SW Maintenance for TS2900 Tape Autoloader 0013

Per Install 1 year Renewal Renewal SW Maintenance for TS2900 Tape Autoloader 0014

5639-TL3:
IBM LTFS Storage Manager
1 year After License
Software Maintenance

Feature description	OTC Feature number
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Per Install with 1 year After License SW Maintenance for TS3500 Tape Library to 2 Drives	0001
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Per Additional 2 Installs with 1 year After License SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
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Per Install with 1 year After License SW Maintenance for TS3310 Tape Library to 2 Drives	0003
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Per Additional 2 Installs with 1 year After License SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
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Per Install with 1 year After License SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
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Per Additional 2 Installs with 1 year After License SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006
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Per Install with 1 year After License SW Maintenance for TS2900 Tape Autoloader	0007
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5639-TL4:
 IBM LTFS Storage Manager
 2 years Registration
 Software Maintenance

Feature description	OTC Feature number
Per Install with 2 year Registration SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Additional 2 Installs with 2 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 2 year Registration SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 2 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 2 year Registration SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
Per Additional 2 Installs with 2 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006
Per Install with 2 year Registration SW Maintenance for TS2900 Tape Autoloader	0007

5639-TL5:
 IBM LTFS Storage Manager
 3 years Registration
 Software Maintenance

Feature description	OTC Feature number
Per Install with 3 Year Registration SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Additional 2 Installs with 3 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 3 year Registration SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with	0004

3 year Registration SW
Maintenance (for install on
subsequent 2 drives)
for TS3310 Tape Library

Per Install with 3 year
Registration SW Maintenance
for TS3100 or TS3200 Tape
Library to 2 Drives 0005

Per Additional 2 Installs with
3 year Registration SW
Maintenance (for install on
subsequent 2 drives) for
TS3100 or TS3200 Tape Library 0006

Per Install with 3 year
Registration SW Maintenance
for TS2900 Tape Autoloader 0007

5639-TL6:
IBM LTFS Storage Manager
3 year Renewal
Software Maintenance

Feature description	OTC Feature number
Per Install with 3 year Renewal SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Additional 2 Installs with 3 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 3 year Renewal SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 3 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 3 year Renewal SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
Per Additional 2 Installs with 3 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006
Per Install with 3 year Renewal SW Maintenance for TS2900 Tape Autoloader	0007

5639-TL7:
IBM LTFS Storage Manager
3 year After License
Software Maintenance

Feature description	OTC Feature number
Per Install with 3 year After License SW Maintenance for	0001

TS3500 Tape Library to 2 Drives	
Per Additional 2 Installs with 3 year After License SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 3 year After License SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 3 year After License SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 3 year After License SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
Per Additional 2 Installs with 3 year After License SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006
Per Install with 3 year After License SW Maintenance for TS2900 Tape Autoloader	0007

5639-TL8:
IBM LTFS Storage Manager
4 years Registration
Software Maintenance

Feature description	OTC Feature number
Per Install with 4 year Registration SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Additional 2 Installs with 4 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 4 year Registration SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 4 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 4 year Registration SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
Per Additional 2 Installs with 4 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006

Per Install with 4 year Registration SW Maintenance for TS2900 Tape Autoloader	0007
5639-TL9 IBM LTFS Storage Manager 5 years Registration Software Maintenance	
Feature description	OTC Feature number
Per Install with 5 year Registration SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Additional 2 Installs with 5 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 5 year Registration SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 5 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 5 year Registration SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
Per Additional 2 Installs with 5 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006
Per Install with 5 year Registration SW Maintenance for TS2900 Tape Autoloader	0007

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-8U3K9K

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 LTFS Storage Manager V1.1 (5639-TL1) is licensed on a per Install basis.

For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

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

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 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 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.

For more information about the Passport Advantage Agreement, visit the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

IBM Operational Support Services - SoftwareXcel

No

Other support

LTFS Storage Manager

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

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

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered destroyed or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM . Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

Prices

Information on charges is available at

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

Choose the option entitled Purchase/upgrade tools.

IBM LTFS Storage Manager V1R1

Program name: IBM LTFS Storage Manager V1R1
Program PID: 5639-TL1

5639-TL1:
IBM LTFS Storage Manager V1R1

Use Authorizations
with One Year Software Maintenance

One-time charge features

IBM LTFS Storage Manager V1R1
per Install with 1 Year
SW Maintenance

Feature description	OTC Feature number
Per Install with 1 Year SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Additional 2 Installs with 1 Year SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 1 Year SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 1 Year SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 1 Year SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
Per Additional 2 Installs with 1 Year SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006
Per Install with 1 Year SW Maintenance for TS2900 Tape Autoloader	0007

IBM LTFS Storage Manager V1R1 Software Maintenance

5639-TL2:
IBM LTFS Storage Manager
No Charge Registration,
1 year Renewal
Software Maintenance

Feature description	OTC Feature number
Per Install No Charge Registration SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Install 1 year Renewal	0002

SW Maintenance for TS3500 Tape Library to 2 Drives		
Per Additional 2 Installs No Charge Registration SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0003	N/C
Per Additional 2 Installs 1 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0004	
Per Install No Charge Registration SW Maintenance for TS3310 Tape Library to 2 Drives	0005	N/C
Per Install 1 year Renewal SW Maintenance for TS3310 Tape Library to 2 Drives	0006	
Per Additional 2 Installs No Charge Registration SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0007	N/C
Per Additional 2 Installs 1 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0008	
Per Install No Charge Registration SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0009	N/C
Per Install 1 year Renewal SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0010	
Per Additional 2 Installs No Charge Registration SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0011	N/C
Per Additional 2 Installs 1 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0012	
Per Install No Charge Registration SW Maintenance for TS2900 Tape Autoloader	0013	N/C
Per Install 1 year Renewal Renewal SW Maintenance for TS2900 Tape Autoloader	0014	
5639-TL3: IBM LTFS Storage Manager 1 year After License Software Maintenance		

OTC

Feature description	Feature number
Per Install with 1 year After License SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Additional 2 Installs with 1 year After License SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 1 year After License SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 1 year After License SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 1 year After License SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
Per Additional 2 Installs with 1 year After License SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006
Per Install with 1 year After License SW Maintenance for TS2900 Tape Autoloader	0007

5639-TL4:
 IBM LTFS Storage Manager
 2 years Registration
 Software Maintenance

Feature description	OTC Feature number
Per Install with 2 year Registration SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Additional 2 Installs with 2 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 2 year Registration SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 2 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 2 year Registration SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005

Per Additional 2 Installs with 2 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library 0006

Per Install with 2 year Registration SW Maintenance for TS2900 Tape Autoloader 0007

5639-TL5:
IBM LTFS Storage Manager
3 years Registration
Software Maintenance

Feature description OTC Feature number

Per Install with 3 Year Registration SW Maintenance for TS3500 Tape Library to 2 Drives 0001

Per Additional 2 Installs with 3 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library 0002

Per Install with 3 year Registration SW Maintenance for TS3310 Tape Library to 2 Drives 0003

Per Additional 2 Installs with 3 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library 0004

Per Install with 3 year Registration SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives 0005

Per Additional 2 Installs with 3 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library 0006

Per Install with 3 year Registration SW Maintenance for TS2900 Tape Autoloader 0007

5639-TL6:
IBM LTFS Storage Manager
3 year Renewal
Software Maintenance

Feature description OTC Feature number

Per Install with 3 year Renewal SW Maintenance for TS3500 Tape Library to 2 Drives 0001

Per Additional 2 Installs with 3 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library 0002

Per Install with 3 year Renewal SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 3 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 3 year Renewal SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
Per Additional 2 Installs with 3 year Renewal SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006
Per Install with 3 year Renewal SW Maintenance for TS2900 Tape Autoloader	0007
5639-TL7: IBM LTFS Storage Manager 3 year After License Software Maintenance	

Feature description	OTC Feature number
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Per Install with 3 year After License SW Maintenance for TS3500 Tape Library to 2 Drives	0001
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Per Additional 2 Installs with 3 year After License SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
---	------

Per Install with 3 year After License SW Maintenance for TS3310 Tape Library to 2 Drives	0003
--	------

Per Additional 2 Installs with 3 year After License SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
---	------

Per Install with 3 year After License SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
---	------

Per Additional 2 Installs with 3 year After License SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006
---	------

Per Install with 3 year After License SW Maintenance for TS2900 Tape Autoloader	0007
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5639-TL8:
IBM LTFS Storage Manager
4 years Registration
Software Maintenance

Feature	OTC Feature
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description	number
Per Install with 4 year Registration SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Additional 2 Installs with 4 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 4 year Registration SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 4 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 4 year Registration SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
Per Additional 2 Installs with 4 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3100 or TS3200 Tape Library	0006
Per Install with 4 year Registration SW Maintenance for TS2900 Tape Autoloader	0007

5639-TL9
IBM LTFS Storage Manager
5 years Registration
Software Maintenance

Feature description	OTC Feature number
Per Install with 5 year Registration SW Maintenance for TS3500 Tape Library to 2 Drives	0001
Per Additional 2 Installs with 5 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3500 Tape Library	0002
Per Install with 5 year Registration SW Maintenance for TS3310 Tape Library to 2 Drives	0003
Per Additional 2 Installs with 5 year Registration SW Maintenance (for install on subsequent 2 drives) for TS3310 Tape Library	0004
Per Install with 5 year Registration SW Maintenance for TS3100 or TS3200 Tape Library to 2 Drives	0005
Per Additional 2 Installs with 5 year Registration SW Maintenance (for install on	0006

subsequent 2 drives) for TS3100
or TS3200 Tape Library

Per Install with 5 year 0007
Registration SW Maintenance
for TS2900 Tape Autoloader

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