



IBM System Storage TS7600 with ProtecTIER

Release Notes

Version 3.2.3





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Release notes

These release notes are for IBM System Storage TS7600 with ProtecTIER Software, version 3.2.3.

Release date **10 January** 2012.

Introduction

This document is a reference for installation and upgrades and contains other useful information about the IBM System Storage TS7600 with ProtecTIER v3.2.3.

Prerequisites

Prerequisites include the following:

- ProtecTIER Manager V3.2.X must be installed.
- RedHat code level 5.6 must be installed on the system first. The upgrade to V3.2.3 will fail if RedHat version 5.6 is not installed first. If the system is already running RedHat 5.6, then 3.2.3 can be downloaded from the Fix Central Website.
<http://www-933.ibm.com/support/fixcentral/>
- The full package code must have already been installed on the system. Installation of this patch on a Linux OS system will fail without the full package code already being installed.

Code levels

Code level requirements include the following:

Software	Version
ProtecTIER software level	3.2.3
Dtcmulex	5232.005-0
Ptlinux	7132.092-0
Ptrepmgr	6132.085-0

New features and resolved problems

The ProtecTIER Introduction and Planning Guides describe the new features in the release:

IBM System Storage TS7650 ProtecTIER 3.2 Deduplication Appliance and TS7650G Deduplication Gateway Introduction and Planning Guide (3958-AP1 and 3958-DD5) (GA32-0918)

Or

IBM System Storage® TS7610 and TS7620 ProtecTIER® 3.2 Deduplication Appliance Express Introduction and Planning Guide (GA32-0913)

See the **Additional documentation** section of this document for information about how to find these publications.

ProtecTIER Server issues:

Issue ID	Fix ID	Description
N/A	81023672, 81023600	Added support for new model of ethernet card to SM2.
16775	81021353	Updated the memory requirements for SM2.
20325	81023269	Solved the replication failures experienced in the Veeam environment.
N/A	81023353	Added dspf rollback mechanism in case of DSO_MSG_FAULT issue during incoming replication.
N/A	81023162	The replication performance degradation issue in Many-To-Many environments was solved by supporting the option to configure the number of incoming/outgoing replicators within the NR configuration files. Contact IBM support for this action.
18422	81021975	Solved the issue experienced when FSI manual replication is slow after the trigger queue entered retry mode.
20683	81023676	Solved backup failures experienced as a result of a CRC mismatch error.
20666	81023700	Solved replication activities issues experienced during stress.



ProtecTIER driver issues:

Issue ID	Fix ID	Description
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None

ProtecTIER Manager issues:

Issue ID	Fix ID	Description
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None

Installation Instructions

The installation roadmaps contain complete installation instructions for VTL, OpenStorage, or FSI systems:

- *IBM System Storage TS7620 ProtecTIER® v3.2 Deduplication Appliance Express Installation and Setup Guide for VTL, OpenStorage, and FSI Systems (GA32-0914)*
- *IBM System Storage TS7650 ProtecTIER® v3.2 Deduplication Appliance Installation Roadmap Guide, 3958 AP1 (GA32-0920)*
- *IBM System Storage TS7650G ProtecTIER® v3.2 Deduplication Gateway Installation Roadmap Guide, 3958 DD5 (GA32-0921)*

See the **Additional documentation** section of this document for information about how to find these publications.

Upgrading the ProtecTIER software

Concurrent upgrades for this version are not supported.

Important: For all upgrades or updates, follow the instructions exactly as written, including when to stop and start vtfd and ptcluster services for each node.

For TS7610 or TS7620 Appliance Express systems, use the *IBM System Storage® TS7610 and TS7620 ProtecTIER® v.3.2 Deduplication Appliance Express Software Upgrade Guide (SC27-3641)* and choose one of the following options:

- Upgrading a TS7610 or TS7620 system from v3.1.8 or higher (Option A)
To upgrade to v3.2.3 from v3.1.8 or above, follow the procedure described in Chapter 3, "Upgrading the ProtecTIER software to version 3.2 from version 3.1.8 or higher" in the *IBM System Storage TS7610 and TS7620 Appliance Express ProtecTIER v. 3.2 Software Upgrade Guide (SC27-3641-03)*.
- Upgrading a TS7610 or TS7620 system from v3.1.X (any 3.1 version **below** 3.1.8) or v2.5.X (Option B)
To upgrade to v3.2.3 from v3.1.x (any 3.1 version **below** 3.1.8) or v2.5, follow the procedure described in Chapter 4, "Upgrading Red Hat Linux and ProtecTIER" in the *IBM System Storage TS7610 and TS7620 Appliance Express ProtecTIER v. 3.2 Software Upgrade Guide (SC27-3641-03)*.
- Updating a TS7610 or TS7620 system already at v3.2. with a fix update or patch (Option C)
Update a system already at v3.2 with a later fix update or patch by using the procedure described in Chapter 6, "Applying fixes to update the ProtecTIER software for version 3.2 and higher" in the *IBM System Storage TS7610 and TS7620 Appliance Express ProtecTIER v. 3.2 Software Upgrade Guide (SC27-3641-03)*.

For TS7650 Appliance or TS7650G (Gateway) systems, use the *IBM System Storage TS7650 ProtecTIER v. 3.2 Software Upgrade Guide (SC27-3643)* and choose one of the following options:

- Upgrading a TS7650 or TS7650G system from v3.1.8 or higher (Option A)

To upgrade to v3.2.3 from v3.1.8 or above, follow the procedure described in Chapter 3, "Upgrading the ProtecTIER software to version 3.2 from version 3.1.8 or higher" in the *IBM System Storage TS7650 ProtecTIER v. 3.2 Software Upgrade Guide (SC27-3643-03)*.
- Upgrading a TS7650 or TS7650G system from v3.1.X (any 3.1 version **below** 3.1.8), v2.5.X or v2.4.X (Option B)

To upgrade to v3.2.3 from v3.1.x (any 3.1 version **below** 3.1.8), v2.5, or v2.4, follow the procedure described in Chapter 4, "Upgrading Red Hat Linux and ProtecTIER for servers before version 3.1.8" in the *IBM System Storage TS7650 ProtecTIER v. 3.2 Software Upgrade Guide (SC27-3643-03)*.
- Upgrading a TS7650 or TS7650G system from v2.3.x or v2.2.x (Option C)

First upgrade to v2.4, then to v3.2.

Upgrade to v2.4 by using the procedure described in Chapter 6, "Upgrading and Configuring Red Hat Linux and ProtecTIER" of the *IBM System Storage TS7600 with ProtecTIER Software Upgrade and Replication Enablement Guide (GC53-1196-02)*.

Upgrade to v3.2.3 as described in Option B.
- Updating a TS7650 or TS7650G system already at v3.2 with a fix update or patch (Option D)

Update a system already at v3.2 with a later fix update or patch by using the procedure described in Chapter 6, "Applying fixes to update the ProtecTIER software for version 3.2 and higher" in the *IBM System Storage TS7650 ProtecTIER v. 3.2 Software Upgrade Guide (SC27-3643-03)*.

Additional documentation

All ProtecTIER publications can be found in the IBM Publications Center. To access all publications, go to:

<http://www-05.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>

1. Select your **country/region/language**.
2. Select **Search for publications** in the left menu.
3. Search for the publications by **publication title, keyword (for example, ProtecTIER), or form number**.

ProtecTIER Information Centers are available at the following at the following locations:

Information Center	URL
TS7610 and TS7620 Combined Customer Information Center	http://pic.dhe.ibm.com/infocenter/ts7610/cust/index.jsp
TS7650 Combined Customer Information Center	http://pic.dhe.ibm.com/infocenter/ts7650/cust/index.jsp
TS7610, TS7620, and TS7650 Combined Service Information Center	http://pic.dhe.ibm.com/infocenter/ts7600/serv/index.jsp

Restrictions and known issues

Restrictions and known issues include the following:

- Before performing any configuration operation, upgrade both nodes to the same patch level.
- Do not move a cartridge from the shelf of the remote repository while it is the target of a replication operation.

Issue ID	Description	Workaround
15607	Increase capacity failures are experienced.	Contact IBM support.
16269, 17670, 17524, 17353	The Temporary Restore/Replication fails (rare)	Retry the operation.
16556	A failover to a secondary active directory may fail to work automatically.	Manually configure the primary active directory.
16895	The system may hang after the SAN is disconnected from Back End Storage (rare).	Reboot the ProtecTIER system.
17168	The last modified date and sync time might not be accurate on FSI files in replication destination.	N/A
17252	A Check & Recover failure is experienced when all of the storage units on a specific Back End Storage file system are detached.	Contact IBM support.
17303	When changing the IP address of an FSI interface, shares become unavailable on that port.	Restart the ProtecTIER system.
17308	A delayed RCSN may cause VTL to disconnect from the initiator in an IBM i NPIV environment.	Restart the ProtecTIER system.
17360	The log floods with errors when repository is full.	Contact IBM support.
17421	FSI traffic might flow through the customer external network.	Separate the FSI network from the external network by using different subnets and VLANs.



17429	A DD4 NIC replacement may fail.	Contact IBM support.
17531	VTL is slow to respond to backup commands and eventually backup failure (rare).	Retry the backup jobs and if they still fail, contact IBM support.
17534	The VTL emulation process crashes (very rare).	Automatic reboot.
17688	The Tivoli Storage Manager (TSM) backup fails (very rare)	Retry the backup.
17859	The suspend was increased by 1 hour.	It should be fixed in the 3.2.4 PGA version.

Compatibility

Compatibility requirements include the following:

- ProtecTIER v3.2.3 works with TSSC code level 5.12.8 or later.
- ProtecTIER v3.2.3 requires the use of ProtecTIER Manager V3.2.X
- ProtecTIER Manager versions earlier than v3.2.2 are not compatible with ProtecTIER v3.2.3. Communication between the two will fail.
- Replication is supported from ProtecTIER v2.4 and later. TS7610 Appliance Express v2.1 systems are also supported.
- Replication between ProtecTIER v2.3 and ProtecTIER v3.1.8 and above is NOT supported.
- Replication configuration operations require the use of Replication Manager V3.2 or later ProtecTIER software.

OpenStorage compatibility:

ProtecTIER v3.2.3 is compatible with OpenStorage plug-in 2.5.0.0 and later. OpenStorage plug-in v3.2 is compatible with ProtecTIER v2.5 and later.

Compatibility matrix:

The compatibility matrix can be found at:

<http://www-03.ibm.com/systems/storage/tape/library.html#interoperability>

under the “TS7650/TS7650G ISV and interoperability matrix” heading.

Documentation format and accessibility

The publications for this product are in Adobe Portable Document Format (PDF) and should be compliant with accessibility standards.

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