



IBM System Storage TS7600 with ProtecTIER

Release Notes

Version 3.1.16





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Release notes

This document is a reference for the installation of the IBM System Storage TS7650G with ProtecTIER V3.1.16 and contains other useful information about the IBM System Storage TS7650G with ProtecTIER V3.1.16.

Release date **02** Sep 2013.

Introduction

This document is a reference for installation and upgrades and contains other useful information about the IBM System Storage TS7600 with ProtecTIER V3.1.16.

Prerequisites

The following is a list of prerequisites:

- ProtecTIER Manager V3.1.16 must be installed.
- RedHat code level 5.6 must be installed on the system first. The upgrade to V3.1.16 will fail if RedHat version 5.6 is not installed first.
- 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

The table below lists the code level requirements:

Software	Version
IBM System Storage TS7650G with ProtecTIER	3.1.16
Dtcmulex	5230.007-0
Ptlinux	7130.063
ptrepmgr	6130.038-0

New features and resolved problems

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

IBM System Storage TS7650 ProtecTIER Deduplication Appliance and TS7650G Deduplication Gateway Introduction and Planning Guide (3958-AP1 and 3958-DD4) (GA32-0918)

Or

IBM System Storage® TS7610 and TS7620 ProtecTIER® 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
21326	81025320	Resolved the broadcom card fault, which resulted in the reboot of a node in the loop during version upgrade.
N/A	81024751, 81025641	Provided functionality for dedup estimator feature.
20710	81024150	The issue of miscalculating the amount of allocable storage units, when the repository is getting full, was solved.
17690	81021508	Provided a solution for the update of the replication operation statistics, according to the DFS files state.
18836	81022171	The issue of incorrect replication job status, in case of DSPF file close failure, was solved.
N/A	81023412	The issue of wrong number of validation requests in NRM replication statistic, was solved.
21220	81025217	Solved the replication performance issue, where empty cartridges were being replicated
RTC 14979	81025010	Solved the slow backups, which were caused by stream accumulator buffer allocations
RTC 18934	81025760	Provided a solution for load balancing issues, reduced performance.

N/A	81025836	Updated UEFI firmware for DD4 machines.
RTC 19373	81025858	The issue of stop vtl process caused segmentation fault, while Dedup estimator still running, was solved.
RTC 20844	81025902	The issue experienced when the backup statistics profile was created in an excel file with N/A values for the "inband" columns, was solved.

ProtecTIER driver issues:

Issue ID	Fix ID	Description
21179	52000328	Resolved an issue of the VTL drivers being changed to a "defined" mode during reboot in an AIX environment, by installing Emulex_9.5.3.6 .

ProtecTIER Manager issues:

Issue ID	Fix ID	Description
N/A	51005295	Developed command line interface (ptcli) dedup estimator functionality.
N/A	51005588	Hide the 4 functions of Calc dedup ratio from the usage of the dedup estimator.
19487	51005749	The issue experienced when the dedup estimator didn't show result for invalid cartridges, was solved.

Installation instructions

The IBM System Storage TS7600 with ProtecTIER Installation Roadmap Guide for the TS7650G (Gateway) [3958 DD4], GA32-0921, contains complete installation instructions.

Upgrading the TS7650G

To upgrade the TS7650G, choose one of the following options:

OPTION A: Upgrading a TS7650G with V3.1.X, v2.5, or 2.4 code installed

To upgrade from V3.1.X, v2.5, or 2.4, use the current code V3.1.16 and follow the procedure described in Chapter 3, "Upgrading Red Hat Linux and ProtecTIER," of the IBM System Storage TS7600 with ProtecTIER Software Upgrade and Replication Enablement Guide (SC27-3643).

OPTION B: Upgrading a TS7650G with v2.3 or v2.2 code installed

First upgrade to v2.4, then to V3.1.16.

1. 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).
2. Upgrade to V3.1.16 as described in Option A.

See the [Additional documentation](#) section of this document for information about how to find these publications.

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
13413	ProtecTIER DD4-x3850 fails to start after autorun.	Contact IBM Support to get the procedure on how to resolve this issue.
14137	Kernel panic following code update procedure.	Reboot the ProtecTIER Manager server and repeat the code update procedure.
14182	RAS configuration may fail after a fresh install with a misleading error: "ConfigRAS, Failed to run /opt/ras/bin/rsCerCfgAll -e eth3 with error code: 3".	Repeat the RAS configuration and set free IP frame within the TSSC server.
14191	After the "Health check" procedure is run from the PT menu, no success exit message is displayed.	None. The health check completed successfully with no errors reported.
13550	ProtecTIER Manager (GUI) gets stuck after configuration session.	Close the ProtecTIER Manager (GUI) and reopen it.
13176	After the server is upgraded while PT Manager is running, the server version is incorrect.	Re-log in to the system using ProtecTIER Manager (GUI).
13442	Server is fenced because of /pt_work full.	Contact IBM support.
14062	PT Server reboots unexpectedly during server replacement procedure.	Shut down the remaining node in order to avoid the fence, then repeat the procedure.
14528	During a firmware upgrade, an erroneous failure message is displayed.	This occurs only if the firmware upgrade procedure is initiated when the firmware is already at the latest level. The level of firmware on the storage system is not affected.

14205	The activities throughput may not be the same as shown on the bottom bar due to sync issues.	The issue is temporary.
14662	During "Update Firmware" using PT menu , the FW updating of RSA adapter may be hang without timeout	Contact IBM support.
14197	vtfd fails to start due to memory allocation	Rebooting the ProtecTIER system will solve this issue.
14786	GUI hangs during long operations while the server notifies that it finishes	<p>This is an XML-RPC communication issue. Perform the following to resolve the problem:</p> <ol style="list-style-type: none"> 1. Go to "Start->Run->netsh" 2. Run "winsock reset" command 3. Restart the PC

Compatibility

Compatibility requirements include the following:

- ProtecTIER V3.1.16 works with TSSC code level 5.10.8 or later.
- ProtecTIER V3.1.16 requires the use of ProtecTIER Manager V3.1.16 or later.
- ProtecTIER Manager earlier than V3.1.8 is not compatible with ProtecTIER Server V3.1.16. Communication between the two will fail.
- Replication is supported from ProtecTIER v2.4 or later. SMB v2.1 systems are also supported.
- Replication between ProtecTIER v2.3 and ProtecTIER V3.1 is NOT supported.
- Replication configuration operations require the use of Replication Manager V3.1.16 or later ProtecTIER software.

OpenStorage compatibility:

- ProtecTIER Server V3.1.16 is compatible with plug-in 2.5.0.0 or later.
- ProtecTIER plug-in V3.1.11 is compatible with ProtecTIER Server v2.5 or later.

Compatibility matrix:

The compatibility matrix can be found at:

<http://www-03.ibm.com/systems/storage/tape/index.html>

Look under the heading “Virtual tape systems” and click on the appropriate product to find a link to the Independent Software Vendor (ISV) and interoperability matrix.

Documentation format and accessibility

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

If you experience difficulties when you use the PDF files and want to request a web-based format or accessible PDF document for a publication, send a request by email to starpubs@us.ibm.com. In the request, be sure to include the IBM publication number and title.

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