



IBM System Storage
TS7650G / TS7620 ProtecTIER Deduplication
Gateway / Appliance Express
Backup Application ISV
Support Matrix

ProtecTIER Release V3.4.x

Updated Date:

August 10, 2018

NOTE

The following information is to be used as a guide. Please reference the SSIC website for release information.

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

DISCLAIMER

Firmware levels in this matrix were qualified by IBM and are the minimum supported levels. All advanced levels are supported by default, however consult the vendors for any known problems/restrictions with advanced levels.

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TS7600 Backup Application ISV (VTL Support)															
	P3000 with DLT7000	P3000 with LTO2	TS3500 with LTO3	P3000 with DLT7000	P3000 with LTO2	TS3500 with LTO3	P3000 with DLT7000	P3000 with LTO2	TS3500 with LTO3	P3000 with DLT7000	P3000 with LTO2	TS3500 with LTO3	DTC VTL with DLT7000	DTC VTL with LTO2	V-TS3500 with LTO3
NOTES	1, 2, 3, 4, 19, 23			1, 2, 26			1, 2, 3, 5, 6, 19, 20			1, 2, 7, 20, 24, 27			1, 2, 3, 8, 9, 10, 11, 12, 20, 25		
AIX 5.3									6.1 6.2			5.5 6.2		6.5 7.0	6.5 7.0 7.1
AIX 6.1	8.0	8.0	8.0 9.0			7.4 7.5 7.6					5.5 6.1 6.2	5.5.2 6.1 6.2 6.3			6.5 7.0 7.1
AIX 7.1			9 10			7.5 7.6 8.1			8.0			6.2.3 6.3 6.4 7.1 8.1			7 7.5 7.6 7.7 8.0
HP-UX 11v1 & 11v2	8.0	8.0	8.0 9.0				6.0	6.0	6.1 6.2			5.5.2 6.1 6.2	6.5 7.0	6.5 7.0	6.5 7.0 7.1
HP-UX 11v3	8.0	8.0	8.0 9.0			7.5	6.1 6.2	6.1 6.2	6.1 6.2 7.0 9.0			5.5.2 6.1 6.2 7.1	6.5 7.0	6.5 7.0	6.5 7.0 7.1 7.5
RedHat ES4.0							6.1 6.2	6.1 6.2	6.1 6.2			5.5.2 6.1 6.2		5.1 6.0 6.5 7.0	
RedHat R5	8.0	8.0	8.0 9.0			7.4 7.5 7.6	6.1 6.2	6.1 6.2	6.1 6.2 7.0			5.5.2 6.1 6.2 6.3		6.5 7.0	6.5 7.x
RedHat R6			8 9			8.1			9.0			6.2 6.3 7.1			7.5 7.6 7.7 8.0
RedHat R7			10.0			8.2						7.1			7.6 7.7 8.0
SLES10	8.0	8.0	8.0 9.0			7.4 7.5 7.6			6.1 6.2	5.5.2 6.1 6.2	5.5.2 6.1 6.2	5.5.2 6.1 6.2		6.5 7.0	6.5 7.0 7.1
SLES11						7.4 7.5 7.6						6.3 7.1			7.6 7.7 8.0
Solaris 10 SPARC	8.0	8.0	8.0 9.0			7.4 7.5 7.6 8.1			6.1 6.2	5.5	5.5 6.1	5.5.2 6.1 6.2		5.1 6.0 6.5 7.0	6.5 7.0 7.1
Solaris 10 x86	8.0	8.0	8.0 9.0 10.0						6.1 6.2			5.5.2 6.1 6.2			

Solaris 11 SPARC																7.6
V5R4																
IBM i 6.1																
IBM i 7.1																
Windows 2008 (32 bit / 64 bit)	8.0	8.0	8.0 9.0 10.0			7.4 7.5 7.6 8.0			6.x 7.0 9.0	5.5.2 6.1	5.5.2 6.1	5.5.2 6.1 6.2 6.3 7.1		6.5 7.0		6.5 7.0 7.1 7.6
Windows 2012			10.0			8.0 9.0			8.0			6.3 7.1				7.6 7.7 8.0
zLinux/SUSE10										5.5.2	5.5.2	5.5.2 6.1 6.2				
zLinux/SUSE11												6.3				
zLinux/RH 6.2												6.3				

Backu NOTES

- (1) For driver info ,please refer to IBM redbook IBM PT Best Practice Guide.Link:<http://www.redbooks.ibm.com/>
- (2) For CPF and DPF feature ,please refer to IBM redbook IBM PT Best Practice Guide.Link:<http://www.redbooks.ibm.com/>
- CV, DF (3) For HP-UX - use OS native driver, CPF / DPF is not supported.
- CV (4) For AIX - use IBM driver, CPF / DPF is not supported.
- DP (5) For AIX - use OS native driver, CPF / DPF is not supported.

- DP (6) For Windows 2008 - use IBM tape driber, CPF / DPF is not supported.

- TSM (7) For HP-UX - use IBM tape driber, CPF / DPF is supported. Specific driver setup:
 - 1. kctune atdd_disable_reserve=1
 - 2. Kctune atdd_reserve_type=3Reference:IBM Tape Device Drivers Installation and User's Guide.
- NBU (8) For AIX - NBU 6.5.2 or later use latest IBM Tape Driver supporting TS3500 with LTO3 (not V-TS3500).
For AIX - Earlier NBU releases use Symantec Ovpas driver supporting DTC VTL with LTO2.
- NBU (9) For AIX - When using IBM driver the multipath functioning (CPF/DPF) must be disabled.
- NBU (10) For AIX - CPF / DPF is not supported
- NBU (11) For Windows 2008 - use OS native driber, CPF / DPF is not supported.
- NBU (12) For Solaris - use Symantec sg driver for the drives and Solaris st driver for the robot for TS3500 with LTO3. CPF / DPF is not supported
- CA (13) only one medium changer should be presented to the CA backup application.
- BRMS (14) General Note: Support requires minimum ProtecTIER V2.2.3 code
- BRMS (15) Considerations/restrictions for IOP-less usage:
 - 1. If a ProtecTIER drive is going to be used for an alternate IPL device (D-mode), there can only be one drive visible on the adapter as the alternate restart device. ProtecTIER LUN masking may be used to satisfy this requirement.
 - 2. If any VIOS partition is connected to the ProtecTIER on the SAN, the ProtecTIER must be removed from the zone prior to initiating a reboot of the ProtecTIER Failure to follow this restriction will cause errors to occur on other devices attached to the same NPIV port that may be disruptive.
- BRMS (16) When the IBM i partition owns the fiber adapter the ProtecTIER can be attached either directly or via a SAN switch.
When VIOS/NPIV owns the fiber adapter the ProtecTIER can be attached only via a SAN switch.
- BE (17) For Windows 2008 - use Symantec Backup Exec Native Driver for LTO3. CPF / DPF is not supported
- NV (18) Minimum Firmware level of 2.3.3.1 is required
- CV, DF (19) P3000 libraries with Linux RH 5.4 can support up to 32 tape drives per ProtecTIER node
- DP, TS (20) IBM tape device drivers can be downloaded <http://www.ibm.com/support/fixcentral/>
- CA (21) Refer to CA ARCserve support website for recommended driver
- NV (22) Refer to BakBone NetVault for recommended driver
- CV (23) For AIX IBM Tape Driver :Atape.driver 12.5.0.0 is the minimum supported code level
For Windos 2008 IBM Tape Driver :IBMTape.x64_w08_6226 is the minimum supported code level
- TSM (24) For AIX IBM Tape Driver :Atape.driver 12.3.9.0 is the minimum supported code level
For RH IBM Tape Driver Lin_tape 1.73.0-1 is the minimum supported code level
For SUSE IBM Tape Driver lin_tape-1.74.0-1 is the minimum supported code level
For Solaris IBM tape drive: IBMTape.4.2.7.1 is the minimum supported code level
For HP IBM tape drive: Atdd.6.0.2.15 is the minimum supported code level
For Windos 2008 IBM Tape Driver IBMTape.x64_w08_6218 is the minimum supported code level
- NBU (25) For AIX IBM Tape Driver :Atape.driver 12.3.4.0 is the minimum supported code level
- NW (26) For AIX IBM Tape Driver :Atape.driver 12.4.1.0 is the minimum supported code level
For Windos 2008 IBM Tape Driver :IBMTape.x64_w08_6226 is the minimum supported code level
- TSM (27) Exluding RH6.3 which is not supported.
- DPM (28) Tape Driver:Microsoft 6.2.9200.16384;Changer Driver:IBMTape.x64_w12_6238

TS7600 Backup Application ISV (FSI-NFS Support)	 commvault Hitachi Data Protection Suite	 EMC² where information lives NetWorker	VERITAS Backup Exec	 IBM Tivoli Storage Manager	VERITAS NetBackup	 ORACLE DATABASE RMAN	 veeam
NOTES	1						
AIX 6.1							
AIX 7.1				6.3		11gR2	
RH5.x						11gR2	
RH6.x	9.0	7.6		6.3	7.1 7.5	10gR2	
RH7.x							9
Solaris 10					7.1	11gR2	
Solaris 11					7.1		
NOTES: (1) Supported only from PT V3.3.1							

TS7600 Backup Application ISV (FSI-CIFS Support)	 commvault Hitachi Data Protection Suite	 EMC ² where information lives NetWorker	 VERITAS Backup Exec	 IBM Tivoli Storage Manager	 VERITAS NetBackup	 Software vRanger	 veeam
NOTES							
Windows 2003(32 bit / 64 bit)	8.x	7.x	2012		7.x		
Windows 2008 (32 bit / 64 bit)	9.x	7.x	2010 2012 2014	6.x	7.x	6	6.5 7
Windows 2012			2014.0	7.1		6.1	9

TS7600 NDMP Compatibility	Network Data Management Protocol (NDMP) Compatibility	
	Software Release	NDMP Compatible
	Data ONTAP 7.x (does not include 7G)	yes
	Celerra NSX DART 5.4	yes

TS7600 OEM ONLY Cluster MGT Ethernet Switches	Ethernet Switch
SMC	SMC8126L2

TS7600 OEM ONLY Cluster MGT Fencing Switches	Fencing Switch
	VMR-8HD20-2

TS7600 ProtectTIER Manager Platforms	ProtectTIER Manager Platforms
	Host Operating Systems
Windows	2008
	2012
	Windows 8
	Windows 10
	Windows 2012
 redhat	ES/AS 5 x86_64
	ES/AS 6 x86_64
	ES/AS 7 x86_64
Linux MCP 32 bit	TSSC only

TS7600 Qualified Back-end Disk	Qualified Back-end Disk Arrays & Minimum Firmware		
	Disk Array	Minimum Firmware	Notes
	Storwize V7000	7.1.x 7.2.x 7.3.x 7.4.x 7.5.x 7.6.x 7.7.x 7.8.x 8.1.x	
	Storwize V3700	7.1.x 7.2.x 7.3.x 7.4.x 7.5.x 7.6.x 7.7.x 7.8.x	
	Storwize V5000	7.1.x 7.2.x 7.3.x 7.4.x 7.5.x 7.6.x 7.7.x 7.8.x 8.1.x	
	SVC	5.1.0 6.3.0.3 7.4.x 7.5.x 7.6.x 7.7.x 7.8.x	
	DS8100	64.25.9.0	
	DS8300	63.1.46.2	
	DS8700	75.0.177.0	
	DS8800	75.15.60.0 86.20.103.0 86.31.167.0	
	DS8870	87.5.11.0	
	DCS3700	7.83 7.84 7.86	
	FlashSystem 820	6.3.0-p9	1
	FlashSystem 840	1.1.1.x 1.2.x.x 1.3.x.x 1.4.x.x	1
	FlashSystem 900	1.2.x.x 1.3.x.x 1.4.x.x	1
	DCS3700	7.83 7.84 7.86	
	XIV, Gen2	10.1.0.a	

	XIV, Gen3	11.1 11.2 11.3 11.4 11.5 11.6	
	VMAX	5875	
	AMS2500	0850/C-M	
	AMS2300	0850/C-M	
	AMS2100	0850/C-M	
	VSP	70-01-61/00	

NOTES

- (1) ProtecTIER version 3.3.5.2 release or above is required.