

# TS7700 Release Notes - 8.52.102.13 (R5.2 Phase 1 PGA2)

IBM System Storage TS7700

Release Notes for the TS7700 (3957 VED / VEC)

- EC: P25763 released September 9, 2022

New Function Supported:

- None

## TS7700 CODE REQUIREMENTS

TS7700	8.52.102.13 (EC P25763, PN 02XY421, PN 02XY422, PN 02XY423, PN 02XY424 (DVD 1, 2, 3 & 4))
DB2	DB2 v11.5.4.0 Informational tokens are "DB2 v11.5.4.0", "s2006161200", "DYN2006161200AIX", and Fix Pack "0"
AIX Base Level	AIX 7.2.5.0
AIX Fixpack	7200-05-01-2038
P9 Server Firmware	FW950.00 (VL950_045)
P8 Server Firmware	FW860.90 (SV860_226)
TCT	Version= 1.1.8-1281
Cloud Support	IBM Cloud Object Storage System (COS) appliance solution Version 3.15.7.43 April Maintenance Release (Storage_COSS_3.15.7.43) / S3 Protocol AWS, S3 Protocol
TS4500 (Anaconda) Firmware	1800-C00
TS3500 (Anaconda) Firmware	H0150
3592 E07 Tape Drive 3592 E08 Tape Drive	D3I3_DCB D3I4_B12
TSSC	9.2.14
3956-CSB (2072-312 V5030E) 3956-CFC (2072-3N4 V5035E) Firmware	8.4.0.5

HDD (3956-CSB / 3956-XSB)	Seagate ST10000NM002G Evans Non-SED 7200 rpm, 3.5 inch, 10TB, SAS 12Gb/s 4Kn / FW BCL4
	Seagate ST10000NM0206 Tatsu Non-SED 7200 rpm, 3.5 inch, 10TB, SAS 12Gb/s 4Kn / FW lvl BCGAD
	Seagate ST10000NM0528 Mobula Non-SED 7200 rpm, 3.5 inch, 10TB, SAS 12Gb/s 4Kn / FW lvl BCHC
	Seagate ST10000NM015G EvansBP Non-SED (Nearline), 7200 RPM, 3.5 inch, 10TB, SAS 12Gb/s 4Kn / FW lvl KCP3
SSD (3956-CFC / 3956-XFC)	Samsung 1643A SSD tier1_flash, 2.5 inch, 3.84TB, SAS 12Gb/s / FW lvl MS73
3956-CSA Firmware Storage Manager GUI	08.40.60.01 11.30.0A05.0037 Storage Manager GUI level
GKLM	4.1.0.1
Atape	13.0.46.0
GPFS	GPFS Release 5.1.0.3
ITDT	9.0.1.20160222
AIX Diagnostics CD	Version 7.2
16Gbit Cisco Switch Firmware	BIOS level 2.1.17 Kickstart software level 6.2(9) System software level 6.2(9)
VTD EXECs	

## Platform Requirements Matrix

Test	Software Level
zOS	V2R4
zTPF	1.1
zVM	6.3, 6,4
zVSE	5.2, 6.1, 6.2

## Switch and Channel Extender Support Matrix

Product Vendor and Model	Product Levels of Microcode Supported
Brocade 8510-8 IBM 2499-816 (SAN768B-2)	8.2.3b
Brocade 8510-4 IBM 2499-416 (SAN384B-2)	8.2.3b
Brocade 6510 IBM 2498-F48 8, 16 GB/sec (SAN48B-5)	8.2.3b
Brocade 7800 IBM 2498-R06 (SAN06B-R)	8.2.2b
Brocade 7840 IBM 2498-R42 (SAN42B-R)	8.2.3b
Brocade X6-8	9.0.1c.8.2.3b

IBM 8961-F08 (SAN512B-6)	
Brocade X6-4 IBM 8961-F0 (SAN256B-6)	9.0.1c
Brocade 620 IBM 8960-F64 8960-N64 SAN64B-6	9.0.1c,8.2.3b
Brocade X7-8 IBM 8961-F78 (SAN512B-7)	9.0.1c
Brocade X7-4 IBM 8961-F74 (SAN256B-7)	9.0.1c
Brocade G720 IBM 8960-R64/8960-P64 (SAN64B-7)	9.0.1c
Cisco MDS9250i IBM 8977-R50 (SAN50C-R)	9.2(1),8.5(1)
Cisco MDS9710 IBM 8978-E08 (SAN384C-6)	9.2(1),8.5(1)
Cisco MDS9706 IBM 8978-E04 (SAN192C-6)	9.2(1),8.5(1)

## **PROBLEM FIXES:**

Problems fixed in this level are described below. There are 68 enhancements/defects fixed in this release; 25 defects occurred or were related to problems in client installations. They are described below with the following designations:

**HIPER** = High Impact & Pervasive

**High Impact** = Loss of access or loss of data

**Acute** = An unrecoverable error with potential loss of data

**Serious** = An unrecoverable error with potential loss of access to data

**Moderate** = A system path is not operational and performance might be degraded

**Service** = A recoverable error, Service Improvements

**Improvement** = Improvement for better usability

**Pervasive:** problems with 3 or more occurrences

**High Impact:** IO: Periodic cache check incorrectly deleted a newly written volume

Pervasive: No

Reference: 93543

**Acute:** Unjoin: Removing a cluster that was cloud attached resulted in unnecessary recalls

Pervasive: No

Reference: 93581

**Acute:** Tape Attach: Unable to mount physical volumes for recalls

Pervasive: No

Reference: 93579



Serious: BVIR: BVIR commands fail due to a file handle leak

Pervasive: No

Reference: 93885

Serious: Grid Cloud Attach: Provide the capability to recall a volume from the cloud on a cluster that is marked inconsistent

Pervasive: No

Reference: 93619

Serious: Grid - OpenSSL thread resources not managed correctly resulting in cluster reboot

Pervasive: YES

Reference: 93119

Serious: Grid: Synchronous copy can fail with SDT if certificate issues exist.

Pervasive: No

Reference: 93738

Serious: Tape Attach: Mix of Jag6 and Jag 4 drives not using Jag6 drives with empty JC/JK cartridges

Pervasive: No

Reference: 93409

Serious: Tape Attach: Physical volumes not marked full after drive conversion to Jag4 and Jag6 mix

Pervasive: No

Reference: 93408

Serious: MI: Dual control adding a new checker not working

Pervasive: YES

Reference: 93407

Serious: RAS: Collect fresh log data when calling home with a cache issue

Pervasive: YES

Reference: 90772

Moderate: Grid: Outbound copy rate imbalanced between clusters in the grid

Pervasive: No

Reference: 93029

Moderate: Copy Export: Offsite Reclaims Will Not Run with JAG6 heterogeneous setup

Pervasive: No

Reference: 93608

Moderate: RAS: System check is incorrectly reporting an error when an adapter is not installed

Pervasive: No

Reference: 93585

Moderate: Config: Host throughput not getting configured correctly

Pervasive: No

Reference: 93548

Moderate: MI: Installed vtd execs are not displayed correctly

Pervasive: No

Reference: 93379

Moderate: Tape Attach: Configuration change required for flagging low on scratch media with new 1160 media

Pervasive: No

Reference: 93355

Moderate: Tape Attached: Incorrectly alerting out of scratch physical media after introducing Jag 6 drives

Pervasive: No

Reference: 93327

Moderate: RAS: Incorrectly reporting physical tape drive error when a drive is busy

Pervasive: YES

Reference: 93281

Moderate: LWORM: Retention time is calculated incorrectly resulting in volumes being retained twice as long as requested

Pervasive: No

Reference: 93262

Moderate: Cache MES: Correct a connection issue when performing a CSB cache MES

Pervasive: No

Reference: 93108

Moderate: MI: Provide dual control when adding scratch categories

Pervasive: No

Reference: 91279

Improvement: Unjoin: Cleanup management class settings for the cluster that was unjoined

Pervasive: No

Reference: 90665

Improvement: RAS: Increase CSB cache logging

Pervasive: YES

Reference: 93105

Improvement: Tools: Qradar only reports logins and not logouts from the TS7700

Pervasive: No

Reference: 91502