

# **TS7700 VTD\_EXEC Release Notes**

## **IBM System Storage TS7700**

### **Release Notes for TS7700 (3948 VED / 3957 VED / 3957 VEC) VTD\_EXEC**

- Released 28 October 2024

## **PROBLEM FIXES:**

Known field issues fixed in the various VTD\_EXEC are described below.

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

## **vtd\_exec release 10/28/24**

### **vtd\_exec.205 v1.09**

Hydradump updates for log collection.

### **vtd\_exec.347 v2.06**

Firmware Updates and Security Enhancements for TS7700 Cache Systems, including updates for CSB and CFC (cache FW, expansion FW, drive package FW) and Upgrade Test Utility. Additional cache and disk scripts/API updates and security fixes.

## **vtd\_exec release 09/30/24**

### **vtd\_exec.269 v2.09**

Java updates for TS7700

### **vtd\_exec.279 v1.19**

Security improvements - <https://www.ibm.com/support/pages/node/7171822>

### **vtd\_exec.405 v1.00**

Security improvements - <https://www.ibm.com/support/pages/node/7171828>

### **vtd\_exec.408 v1.00**

Service Authorization Fixes

### **vtd\_exec.904 v1.09**

Web Code Updater for TS7700 code level R5.4

Serious: Addresses an issue where LDAP user ability to create/modify is discarded

Pervasive: No

Reference: 97205

Serious: Addresses an issue where Dual Control is incorrectly stating there are not enough checkers available

Pervasive: No

Reference: 97206

Serious: Address an issue where the MI login fails if the administrator account is not correctly set in the database

Pervasive: No  
Reference: 97236

Moderate: Addresses an issue where the client can not create a Management Class or Logical Volume Search  
Pervasive: Yes  
Reference: 97277

**vtd\_exec release 09/04/24**

**vtd\_exec.182 v1.38**

Updates to Joins and Merges

**vtd\_exec.904 v1.05**

R54 Web Code Updater

## **vtd\_exec release 06/24/24**

### **vtd\_exec.182 v1.37**

Updates to Joins and Merges

### **vtd\_exec.261 v1.13**

Frame replacement pre-check

### **vtd\_exec.404 v1.00**

TCT Monitor for S3 Server in R5.4PGA1

### **vtd\_exec.406 v1.00**

Disable unused code functionality for code hygiene purposes

### **vtd\_exec.407 v1.04**

Security Enhancement: Update Python to address security vulnerabilities

### **vtd\_exec.903 v1.16**

R53 Web Code Updater

### **vtd\_exec.904 v1.04**

R54 Web Code Updater

**vtd\_exec release 06/11/24**

**vtd\_exec.402 v1.00**

TS7700C S3 Server SSL Cert Verification Fix For TCT Cloud Using Proxy Server

**vtd\_exec release 05/10/24**

**vtd\_exec.103 v2.04**

This exec provides system checkout updates to enhance serviceability of the TS7700

## **vtd\_exec release 04/30/24**

### **vtd\_exec.279 v1.18**

Security improvements

Note: vtd\_exec.279 v1.18 vs 1.17

The later version contains support for an additional code level.

There is no need to install v1.18 over v1.17 as there are no functional differences.

## **vtd\_exec release 04/08/24**

### **vtd\_exec.269 v2.07**

Java updates for TS7700

### **vtd\_exec.279 v1.17**

Security improvements – <https://www.ibm.com/support/pages/node/7142104>

### **vtd\_exec.401 v1.01**

Fix for the issue of cache\_quotas\_mgr execution failure

**vtd\_exec release 01/29/24**

**vtd\_exec.269 v2.05**

Security improvements – <https://www.ibm.com/support/pages/node/7105342>

## **vtd\_exec release 12/11/23**

### **vtd\_exec.103 v2.02**

This exec provides system checkout updates to enhance serviceability of TS7760 and TS7770

### **vtd\_exec.399 v1.01**

Service: Addresses issue where health status of TS7760 backend disk cache is not properly reported in TS7760 MI tasks

Pervasive: No

Reference: 95115

**vtd\_exec.901 v1.19** (R5.2 Phase 1)

**vtd\_exec.903 v1.10** (R5.3)

Security improvements - <https://www.ibm.com/support/pages/node/7092383>

Note: Contrary to prior guidance, improvements provided through vtd\_exec.901 and vtd\_exec.903 cannot be installed by a client operator through the TS7700 Web User Interface (Management Interface, MI) at this time. Please engage with the RCL team as required: <https://tape.ibmrc1.enterpriseappointments.com/v2/>

## **vtd\_exec release 10/30/23**

### **vtd\_exec.080 v1.37**

Service Tool: Backup for server/frame replacement MES

### **vtd\_exec.279 v1.15**

Security improvements: Updating code libraries to latest versions for code hygiene

### **vtd\_exec.389 v1.07**

Code signing to be able to upgrade to R5.3 or R5.4

Note: This vtd\_exec must be installed on systems with lower code level prior to upgrading to R5.3 or upgrading to R5.4

### **vtd\_exec.400 v1.00**

Watchdog for FC 5278, Enable Cloud Storage Tier

**vtd\_exec release 10/12/23**

**vtd\_exec.103 v1.99**

This exec provides system checkout updates to enhance serviceability of TS7760 and TS7770

Addresses TS7700 (3957-VED, 3948-VED) with code level

## **vtd\_exec release 09/14/23**

### **vtd\_exec.182 v1.36**

Service improvements to support TS7700 cluster join/merge operation.

### **vtd\_exec.398 v1.00**

Improvements to rsyslog

**vtd\_exec.901 v1.14** (R5.2 Phase 1)

**vtd\_exec.903 v1.07** (R5.3)

Security improvements - <https://www.ibm.com/support/pages/node/7031979>

Note: Contrary to prior guidance, improvements provided through vtd\_exec.901 and vtd\_exec.903 cannot be installed by a client operator through the TS7700 Web User Interface (Management Interface, MI) at this time. Please engage with the RCL team as required: <https://tape.ibmrc1.enterpriseappointments.com/v2/>

## **vtd\_exec release 07/31/23**

### **vtd\_exec.188 v1.55**

Improvements to Call Home functionality

### **vtd\_exec.269 v2.04**

Security improvements – <https://www.ibm.com/support/pages/node/7015879>

## **vtd\_exec release 07/05/23**

### **vtd\_exec.103 v1.95**

This exec provides system checkout updates to enhance serviceability of TS7760 and TS7770

### **vtd\_exec.347 v2.04**

Firmware Updates for backend disk cache and drives.

**vtd\_exec release 05/30/23**

**vtd\_exec.269 v2.03**

Security improvements – <https://www.ibm.com/support/pages/node/6985503>

**vtd\_exec.279 v1.13**

Security improvements - <https://www.ibm.com/support/pages/node/6984425>

## **vtd\_exec release 05/02/23**

### **vtd\_exec.182 v1.27**

Service improvements to support TS7700 cluster join/merge operation.

**vtd\_exec.900 v1.14** (R5.1)

**vtd\_exec.901 v1.11** (R5.2 Phase 1)

**vtd\_exec.903 v1.04** (R5.3)

Security improvements - <https://www.ibm.com/support/pages/node/6980845>

Note: Contrary to prior guidance, improvements provided through vtd\_exec.900, vtd\_exec.901 and vtd\_exec.903 cannot be installed by a client operator through the TS7700 Web User Interface (Management Interface, MI) at this time. Please engage with the RCL team as required: <https://tape.ibmrc1.enterpriseappointments.com/v2/>

## **vtd\_exec release 03/01/23**

### **vtd\_exec.103 v1.93**

This exec provides system checkout updates to enhance serviceability of the TS7700

### **vtd\_exec.347 v2.00**

TS7770 backend disk cache HDD/SSD firmware update for CSB/XSB

Added support for additional CSC/XSC SSD FRU

## **vtd\_exec release 01/30/23**

### **vtd\_exec.269 v2.02**

Security improvements – <https://www.ibm.com/support/pages/node/6858055>

### **vtd\_exec.389 v1.06**

Code signing to be able to upgrade to R5.3

Note: this exec must be installed on system with R5.1 or R5.2 before upgrading to 5.3 GA or above

## **vtd\_exec release 01/10/23**

### **vtd\_exec.396 v1.00**

Moderate: Fix for improper date stamp in backend disk cache battery VPD of TS7770 with 3956-CSB

Note: This may result in the TS7770 backend disk cache reporting a premature battery end of life warning.

This applies to a small subset of batteries manufactured in 2020.

Pervasive: No

Reference: 94216

## **vtd\_exec release 12/07/22**

### **vtd\_exec.269 v2.01**

Security improvements – <https://www.ibm.com/support/pages/node/6844439>

### **vtd\_exec.279 v1.12**

Security improvements - <https://www.ibm.com/support/pages/node/6844445>

**vtd\_exec.900 v1.10** (R5.1)

**vtd\_exec.901 v1.08** (R5.2 Phase 1)

**vtd\_exec.902 v1.03** (R5.2 Phase 2)

**vtd\_exec.903 v1.02** (R5.3)

Security improvements - <https://www.ibm.com/support/pages/node/6844441>

Note: Improvements provided through vtd\_exec.900, vtd\_exec.901, vtd\_exec.902 and vtd\_exec.903 can be installed by a client operator through the TS7700 Web User Interface (Management Interface, MI) once the necessary updates were acquired through call home functionality:

<https://www.ibm.com/docs/en/ts7700-virtual-tape/5.3?topic=service-update-system>

**vtd\_exec release 10/31/22**

**vtd\_exec.103 v1.92**

This exec provides system checkout updates to enhance serviceability of the TS7700

**vtd\_exec.331 v1.06**

Various fixes related to hardware MES and Remove/Replace procedures

**vtd\_exec release 10/19/22**

**vtd\_exec.391 v1.00**

Improved hardware location reporting of server internal DDM/SSD

**vtd\_exec.395 v1.00**

Fixed issue where TS1160 tape drive encryption using JE and JM media type was not working properly

## **vtd\_exec release 09/30/22**

### **vtd\_exec.394 v1.00**

Mandatory exec to for CSB/CFC STRING MES CSB/CFC with code 5.3 and external encryption enable

### **vtd\_exec.103 v1.91**

This exec provides system checkout updates to enhance serviceability of the TS7700.

### **vtd\_exec.269 v2.00**

Security improvements – <https://www.ibm.com/support/pages/node/6824193>

## **vtd\_exec release 09/15/22**

### **vtd\_exec.389 v1.04**

Code signing to be able to upgrade to 5.3

Note: this exec must be installed on system with R5.1 or R.52 before upgrading to 5.3 GA

## **vtd\_exec release 08/29/22**

### **vtd\_exec.205 v1.07**

Hydradumps updates

Reference: 91698, 90506, 92316, 92864

### **vtd\_exec.279 v1.11**

Security improvements - <https://www.ibm.com/support/pages/node/6616067>

### **vtd\_exec.387 v1.00**

Fileset Case Fix

Reference: 93545

Note: This exec is a tool that can be used as needed. It addresses the known dependency where DS8k cloud names <https://www.ibm.com/support/pages/node/6597671>

### **vtd\_exec.900 v1.08**

Web Code Updater for TS7700 code level R5.1

- Provides additional security improvements.

Reference: 91402, 93407

## **vtd\_exec release 07/28/22**

### **vtd\_exec.372 v1.04**

Install improvements only, same functionality as v1.01 (VEC) and v1.02 (VED) and v1.03 (both)

Note: Install of v1.04 over v1.01 or v1.02 or v1.03 is unnecessary as the provided functionality is identical.

Note: With TS7770 (3957-VED) this vtd\_exec will be installed prior to a TS7770 code update to detect the potential issue and apply the required correction if needed, typically 2-3 days ahead of time.

## **vtd\_exec release 07/11/22**

### **vtd\_exec.384 v1.02**

Various improvements TS7700 MI (management interface) and underlying web server

### **vtd\_exec.900 v1.07**

Web Code Updater for TS7700 code level R5.1

- Various improvements TS7700 MI (management interface) and underlying web server

### **vtd\_exec.901 v1.05**

Web Code Updater for TS7700 code level R5.2 Phase 1

- Various improvements TS7700 MI (management interface) and underlying web server

### **vtd\_exec.902 v1.01**

Web Code Updater for TS7700 code level R5.2 Phase 2

- Various improvements TS7700 MI (management interface) and underlying web server

Note: Improvements provided through vtd\_exec.900, vtd\_exec.901 and vtd\_exec.902 can be installed by a client operator through the TS7700 Web User Interface (Management Interface, MI) once the necessary updates were acquired through call home functionality:

<https://www.ibm.com/docs/en/ts7700-virtual-tape/5.2.2?topic=service-update-system>

## **vtd\_exec release 06/27/2022**

### **vtd\_exec.269 v1.22**

- Security improvements – <https://www.ibm.com/support/pages/node/6591077>

## **vtd\_exec release 04/25/2022**

### **vtd\_exec.365 v1.05**

- Improves remove/replacement procedure for server internal disk
- Updated Firmware for server internal SSD

### **vtd\_exec.372 v1.03**

- Install improvements only, same functionality as v1.01 (VEC) and v1.02 (VED)  
Note: Install of v1.03 over v1.01 or v1.02 is unnecessary as the provided functionality is identical  
Note: With TS7770 (3957-VED) this vtd\_exec will be installed prior to a TS7770 code update to detect the potential issue and apply the required correction if needed, typically 2-3 days ahead of time.

**vtd\_exec release 03/07/2022**

**vtd\_exec.384 v1.01**

Security improvements - <https://www.ibm.com/support/pages/node/6524972>

## **vtd\_exec release 02/28/2022**

### **vtd\_exec.269 v1.21**

Security improvements – <https://www.ibm.com/support/pages/node/6552866>

### **vtd\_exec.372 v1.02**

Serious: Addresses rare issue when extending a filesystem logical volume within a TS7770 Volume Group

Note: This vtd\_exec will be installed prior to a TS7770 code update to detect the potential issue and apply the required correction if needed, typically 2-3 days ahead of time.

Pervasive: No

Reference: 92836

## **vtd\_exec release 01/31/2022**

### **vtd\_exec.347 v1.06**

TS7770 backend disk cache and HDD/SSD firmware update for CSB/XSB and CFC/XFC

- Added support for additional CSB/XSB HDD FRU

### **vtd\_exec.900 v1.06**

Web Code Updater for TS7700 code level R5.1

- Install improvements only, same functionality as v1.05

Note: Improvements provided through vtd\_exec.900 can be installed by a client operator through the TS7700 Web User Interface (Management Interface, MI) once the necessary updates were acquired through call home functionality:

<https://www.ibm.com/docs/en/ts7700-virtual-tape/5.2.2?topic=service-update-system>

### **vtd\_exec.901 v1.04**

Web Code Updater for TS7700 code level R5.2

- Install improvements only, same functionality as v1.03

Note: Improvements provided through vtd\_exec.901 can be installed by a client operator through the TS7700 Web User Interface (Management Interface, MI) once the necessary updates were acquired through call home functionality:

<https://www.ibm.com/docs/en/ts7700-virtual-tape/5.2.2?topic=service-update-system>

## **vtd\_exec release 12/10/2021**

### **vtd\_exec.901 v1.03**

Web Code Updater for TS7700 code level R5.2

- Security improvements - <https://www.ibm.com/support/pages/node/6524972>

## **vtd\_exec release 11/29/2021**

### **vtd\_exec.188 v1.54**

Improvements to Call Home functionality

### **vtd\_exec.334 v1.03**

Memory usage monitor

### **vtd\_exec.346 v1.04**

Improve reporting of FIPS status for 3956-CSA

### **vtd\_exec.348 v1.00**

Improvements to Grid unjoin

### **vtd\_exec.378 v1.00**

Add support for additional FCP adapter FRU

### **vtd\_exec.900 v1.05**

Web Code Updater for TS7700 code level R5.1

- Security improvements - <https://www.ibm.com/support/pages/node/6524972>
- Security improvements - Removed SHA1 cipher
- Added support for reporting tape partition type
- Fixed issue where local login may fail due to prior LDAP dependency
- Improved message details for various operator messages for DS8000 Object Store
- Improved vtd\_exec.900 Fix Acquisition

**vtd\_exec release 10/27/2021**

#### **vtd\_exec.256 v1.04**

Usability improvements for SSR service interface

#### **vtd\_exec.269 v1.19**

Security improvements – <https://www.ibm.com/support/pages/node/6507117>

#### **vtd\_exec.347 v1.05**

TS7770 backend disk cache and HDD/SSD firmware update for CSB/XSB and CFC/XFC

- Updated cache controller firmware for all TS7700 with microcode level R5.2 Phase 2 (8.52.100.32)
- Updated HDD and SSD firmware
- Improved reporting of vtd\_exec install status
- Improved backend disk cache health checking, currently reporting "Array response too high"

#### **vtd\_exec.365 v1.04**

Updated Firmware for server internal HDD and SSD

**vtd\_exec release 10/05/2021**

**vtd\_exec.900 v1.03**

Web Code Updater for TS7700 code level R5.1

- Security improvements - <https://www.ibm.com/support/pages/node/6495469>

**vtd\_exec.901 v1.02**

Web Code Updater for TS7700 code level R5.2

- Security improvements - <https://www.ibm.com/support/pages/node/6495469>

**vtd\_exec release 09/27/2021**

**vtd\_exec.188 v1.53**

Improvements to Call Home functionality

**vtd\_exec.376 v1.00**

Service: Fixed issue resulting in SSL certificate validation failure when using client CA certificate

Pervasive: No

Reference: 91930

## **vtd\_exec release 09/03/2021**

### **vtd\_exec.901 v1.01**

Web Code Updater for TS7700 code level R5.2

- Fixed display issue where FC ports were reported as copper
- Fixed issue preventing remote authentication policies from being modified
- Updated embedded client documentation

### **vtd\_exec.377 v1.00**

Increases number of objects that can be stored in TS7700 through DS8000 Object Store

### **vtd\_exec.331 v1.05**

Fix for FC 8083 MES when installing 3.84TB SSDs in TS7770 (3957-VED) server

## **vtd\_exec release 07/26/2021**

### **vtd\_exec.372 v1.01**

Re-release of fix provided with vtd\_exec.372 v1.00 with installation improvement to not trigger false call home  
Note: Install of v1.01 over v1.00 is unnecessary as the provided functionality is identical

### **vtd\_exec.364 v1.02**

Re-release of fix provided with vtd\_exec.364 v1.00 with installation improvement and supporting older R5.0 code level  
Note: Install of v1.02 over v1.00 is unnecessary as the provided functionality is identical

### **vtd\_exec.331 v1.04**

Serious: Improvements for Grid Ethernet MES from 1Gb/s to 10Gb/s, and adapter remove/replace  
Pervasive: No  
Reference: 91405 91263

## **vtd\_exec release 06/28/2021**

### **vtd\_exec.374 v1.04**

Re-release of fix provided with vtd\_exec.374 v1.03 with installation improvement during RCL

Note: Install of v1.04 over v1.03 is unnecessary as the provided functionality is identical

### **vtd\_exec.365 v1.03**

Re-release of fix provided with vtd\_exec.365 v1.01/v1.02 with installation improvement during RCL

Note: Install of v1.03 over v1.01/v1.02 is unnecessary as the provided functionality is identical

### **vtd\_exec.368 v1.00**

Serious: Fixed potential problem that can result in issues with volume ownership/damaged volume/hot token

Pervasive: No

Reference: 91354

**vtd\_exec.370 v1.00**

Serious: Improvements to handling of backend disk cache

Pervasive: No

Reference: 91464

**vtd\_exec.372 v1.00**

Serious: Improvement to repair process for TS7760 internal HDD

Pervasive: No

Reference: 91670

**vtd\_exec release 05/24/2021**

**vtd\_exec.364 v1.00**

Moderate: Fixes for Cloud Storage Tier improving cloud recall/cloud premig handling

Pervasive: No

Reference: 90793

## **vtd\_exec release 04/30/2021**

### **vtd\_exec.103 v1.89**

Serious: Call Home code is calling out a DDM that had just been replaced

Pervasive: No

Reference: 91262

### **vtd\_exec.347 v1.03**

Serious: Fixed issue resulting in increased 10TB DDM fallout

Pervasive: No

Reference: 91222

### **vtd\_exec.358 v1.02**

Re-release of fix provided with vtd\_exec.358 v1.01 for various code level now for R5.1 GA (8.51.0.63)

### **vtd\_exec.365 v1.01**

Updated Firmware for server internal HDD and SSD

### **vtd\_exec.366 v1.02**

Re-release of fix provided with vtd\_exec.366 v1.01 for various code level now for R5.1 GA (8.51.0.63)

### **vtd\_exec.367 v1.00**

Moderate: Fixed issue where disk cache capacity is improperly reported after installing R5.1

Pervasive: No

Reference: 91267

### **vtd\_exec release 03/29/2021**

### **vtd\_exec.269 v1.18**

Security improvements - <https://www.ibm.com/support/pages/node/6420469>

### **vtd\_exec.358 v1.01**

Moderate: Volumes not migrated out of cache when cloud attached - cache shows over-committed on partition 1

Pervasive: No

Reference: 90637

### **vtd\_exec.366 v1.01**

Serious: Database re-org fails to run due to missing hourly database statistics

Pervasive: No

Reference: 89977

Serious: Adding reorg fix from vtd\_exec.366 v1.01 missing binaries for 8.51.0.63

Pervasive: No

Reference: 91349

Service: Fixed issue where online reorg may skip index reorg

Pervasive: No

Reference: 91106

### **vtd\_exec release 02/19/2021**

#### **vtd\_exec.343 v1.07**

Moderate: Management interface does not report licensed feature codes when vtd\_exec.343 v1.06 is installed

Pervasive: No

Reference: 90844

#### **vtd\_exec.363 v1.00**

Fixed problem to address potential memory leak when using SDT and grid copy issue

## **vtd\_exec release 01/25/2021**

### **vtd\_exec.347 v1.02**

Moderate: Cache firmware update for CSB and XSB cache types with mixed DDMs

Pervasive: No

Reference: 90848

### **vtd\_exec.900 v1.02**

TS7700 Management Interface performance improvements, plus fixes from vtd\_exec.900 v1.00

## **vtd\_exec release 12/23/2020**

### **vtd\_exec.355 v1.06**

Serious: Potential external key manager access issue after code update

Pervasive: No

Reference: 90578

Serious: Fixed issue where DDM firmware update could run for long time

Pervasive: No

Reference: 90711

Serious: Regeneration of keys for CSB cache type for External and Local encryption types is only happening for String0 (base cache)

Pervasive: No

Reference: 90725

**vtd\_exec release 12/18/2020**

**vtd\_exec.347 v1.01**

Serious: Cache firmware update for CSB and XSB cache types

Pervasive: YES

Reference: 89787

## **vtd\_exec release 12/01/2020**

### **vtd\_exec.103 v1.88**

Serious: Detect low TX power on Bluefish FCP adapter, report error and generate a call home

Pervasive: No

Reference: 90516

### **vtd\_exec.256 v1.03**

Usability improvements for SSR service interface

### **vtd\_exec.269 v1.17**

Security improvements - <https://www.ibm.com/support/pages/node/6374032>

### **vtd\_exec.343 v1.06**

## TS7700 Management Interface performance improvements

### **vtd\_exec release 10/26/2020**

#### **vtd\_exec.205 v1.06**

Serious: Filesystem filled during log collection

Pervasive: No

Reference: 90023

Improvement: Log collection may not gather all required logs

Pervasive: No

Reference: 90025

#### **vtd\_exec.279 v1.10**

Security improvements - <https://www.ibm.com/support/pages/node/6353443>

#### **vtd\_exec.355 v1.03**

Serious: Potential performance issue after backend disk cache MES

Pervasive: No

Reference: 90494

### **vtd\_exec release 09/30/2020**

#### **vtd\_exec.182 v1.27**

Serious: During join/merge operation an existing I/O running cluster may fail to mount a new vol

Pervasive: No

Reference: 90352

#### **vtd\_exec.343 v1.04**

Serious: Management interface performance enhancements

Pervasive: No

Reference: 90056

#### **vtd\_exec.355 v1.02**

Service: Improve encryption return codes for proper system health status

Pervasive: No

Reference: 90241

**vtd\_exec release 09/28/2020**

**vtd\_exec.900 v1.00**

Improved handling for Dual Control

**vtd\_exec release 08/31/2020**

**vtd\_exec.269 v1.16**

Security improvements - <https://www.ibm.com/support/pages/node/6260995>

**vtd\_exec.346 v1.02**

Add support for additional 8TB DDM FRU for 3956-CSA

**vtd\_exec.357 v1.01**

Serious: Reduce online time for TS7760 when updating microcode from 8.4x to 8.5x level

Pervasive: No

Reference: 90184