

TOSHIBA

**TOSHIBA Drive Common Tool
(TSBDRV)**

Installation Guide (3.13)

**Toshiba Electronic Devices & Storage
Corporation (TDSC)**

History

Revision	Date	Description
0.1	March 2016	Preliminary release
0.4	May 2016	Bug fix release
0.8	June 2016	NVMe Support and Internal review
0.9	June 2016	Bug fix release
1.0	July 2016	Lock path update
1.1	September 2016	Bug fix release
1.2	September 2016	Legal review
1.3	June 2017	Feature update release
1.4	October 2017	Feature update & Bug fix release
1.5	December 2017	Minor feature update
1.6	February 2018	Feature update & Bug fix release
1.7	June 2018	Defect fix release
2.0	July 2018	Legal update & review
2.1	Oct 2018	Added firewall exception during install
2.2	Nov 2018	Legal update & review
2.3	Jan 2019	Added Default Port Information
2.4	July 2019	Library linking information update
2.5	Jan 2020	Copyright Information update
2.6	Apr 2020	x32 OS support removed
2.7	Jun 2020	Updated Open Source Software information
2.8	Nov 2020	TOSHIBA logo is updated
2.9	Feb 2021	Copyright Information updated
3.0	Apr 2021	Section 1.2 and 2.7 updated
3.1	May 2021	Updated ARM architecture support in: Section 1.2 Supported Operating system Section 2.1 Generic system requisites Section 2.2 Installation Files Note in Section 2.4 Installation on Linux Section 2.4.1 Linux Folder Tree
3.2	June 2021	Updated Section 3 Open Source Software Section 2.2 Installation Files
3.3	Sep 2021	Added Section 2.5 and 2.6 Updated Section 2
3.4	Jan 2022	Updated copyright information Updated section 2.9.1 and 2.9.2
3.5	Jul 2022	Updated copyright information Updated section 6 for EULA
3.6	Jan 2023	Updated copyright information
3.7	Jul 2023	Removed NVMe information from section 1.1 Added Win-11 in section 1.2
3.8	Jan 2024	Updated copyright information

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3.9	Apr 2024	Removed Windows installation, updation and uninstallation sections
3.10	May 2024	Removed tiny core linux section
3.11	Jun 2024	Added Section 3 Troubleshoot steps
3.12	Dec 2024	VMware ESXI support details added
3.13	Jan 2025	Updated copyright information Updated section 2.4.3 with note

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1 Introduction

This document describes the method for installing TOSHIBA Drive Common Tool (TSBDRV) which provides the mechanism to manage TOSHIBA drives.

1.1 Software configuration

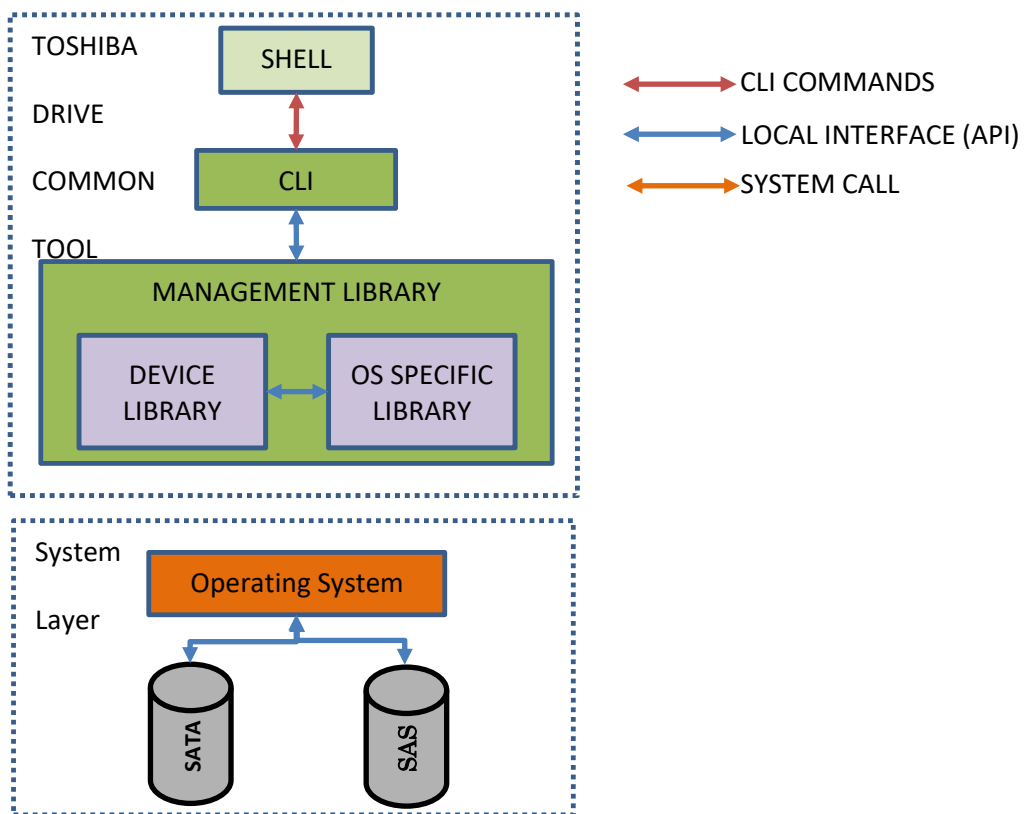


Figure 1: Host software for managing TOSHIBA drives

1.2 Supported Operating Systems

Operating Systems supported by the TOSHIBA TSBDRV tool are as follows:

CPU Architecture	OS	Version/Flavors
x64	Windows® 64-bit	Windows® Server 2008 R2
		Windows® Server 2012 R2
		Windows® Server 2016
		Windows® 8.1
		Windows® 10
		Windows® 11
	Linux® 64-bit	RHEL® 6.0 and above
		SLES® 12 SP1 and above
		Ubuntu® 14.04 and above
		CentOS 7 and 8
	FreeBSD 64-bit	FreeBSD 12.2
	VMware ESXI 64-bit	VMware ESXI 7.0
AArch64	Linux® 64-bit	CentOS 7.0

2 TOSHIBA TSBDRV Software Setup

TSBDRV Software Setup can be created using following packages

1. Installation Files
2. Zip Files
3. Standalone Files

2.1 Generic system requisites

The following generic system requirements need to be met for installation of TOSHIBA drive common tool.

No.	requirements	Details
1	Operating System	See section 1.2
2	CPU Architecture	x64/aarch64
3	RAM Size	4GB
4	User Privileges	Administrator/Super-user

Table 1: System requirements

2.2 Installation Files

Installer files for supported platforms are named as follows

1. Linux 64-bit Installer: install-lin-toshiba-CC_rel-tsbdrv-MM.mm.bbbb.ARCH.bin

The file names are in the following format:

install-<platform>-toshiba-<CC>_rel-tsbdrv-<MM>.<mm>.<bbbb>.<ARCH>.<ext>

<platform> : 'lin' for Linux

<CC> : 2 digits Customization Code

<MM> : 2 digits Major Version

<mm> : 2 digits minor version

<bbbb> : 4 digits build number

<ARCH> : CPU architecture

x64: Intel 64-bit CPU Architecture

aarch64: ARM 64-bit CPU Architecture

<ext> : File extension i.e. bin for Linux platform

2.3 Installation on Linux

1. Start the Installation on a command prompt with Administrative privileges (Super User).

Command
#./install-lin-toshiba-01_rel-tsbdrv-13.05a.7850.x64.bin
Output
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(A)ccept / (D)ecline

2. Accept the license agreement by entering “A” and press ‘Enter’.
3. During installation, installer will prompt for TSBDV REST Service configuration confirmation for RHEL7, Ubuntu14.2 and SLES12SP1 onwards.
For older Linux distributions, TSBDV REST service will not be configured and installer will automatically go to step 4.b.

Output

Do you want to install tsbdrv REST service [y/n] (default Y)?

- a. If you don’t want to configure service on the system, then type N and press ‘Enter’.

Output

Do you want to install tsbdrv REST service [y/n] (default Y)? N

- b. If you don’t want to configure service on the system, then type N and press ‘Enter’.

Output

Do you want to install tsbdrv REST service [y/n] (default Y)? Y

4. If TSBDVRD configuration is selected as 'Yes' then, installer will prompt for TSBDVR REST Service IP/Port/SSL Certificate configurations.

Output
<pre>::Select IP:: 1) example.com 2) XXX.XXX.XXX.XXX 3) YYY.YYY.YYY.YYY 4) 127.0.0.1 Enter IP/Host name Selection [1-4]: 1 ::Default Port:: Port 59999 will be used. Following SSL <KEY> and <CERTIFICATE> pair will be used: KEY: /opt/toshiba/tsbdrv/etc/ssl/tsbdrv.key CERTIFICATE: /opt/toshiba/tsbdrv/etc/ssl/tsbdrv.crt Do you want to use other SSL files [y/n] (default N)? N</pre>

5. If TSBDVRD configuration is selected as 'Yes' then, installer will also prompt for firewall exception configuration if following firewalls are installed and running.
- Firewalld

Output
<pre>Do you want to add port '59999' to 'firewalld' firewall exception (y/n)?</pre>

- UFW on Ubuntu

Output
<pre>Do you want to add port '59999' to 'ufw' firewall exception (y/n)?</pre>

- SuSEfirewall2

Output
<pre>Do you want to add port '59999' to 'SuSEfirewall2' firewall exception (y/n)?</pre>

Type **n** if you don't want to add port to firewall exception.

Type **y** if you want to add port to firewall exception.

If selected **y**, then port 59999 will be added firewall exception for `firewalld` and `ufw` by installer.

However, for SuSEfirewall2, installer cannot add firewall exception and hence following message will be displayed on console.

Output

```
Installer cannot configure port exception for SuSEfirewall2.  
Please add port '59999' to SuSEfirewall2 configuration file  
and restart the firewall.  
Note: Configuration FW_SERVICES_EXT_TCP in file  
'/etc/sysconfig/SuSEfirewall2'.  
e.g. FW_SERVICES_EXT_TCP="59999"
```

6. After successful installation, following message will be displayed on console
 - c. For RHEL7, Ubuntu14.2 and SLES12SP1 onwards (if TSBDRV REST service was configured).

Output

```
Service tsbdrvd started.  
  
tsbdrv installed successfully.
```

- d. For older Linux or for RHEL7, Ubuntu14.2 and SLES12SP1 onwards (if TSBDRV REST service was not configured).

Output

```
tsbdrv installed successfully.
```

Note

1. From TSBDRV 5.0 onwards, TSBDRV REST Service is installed and started during installation for RHEL7, Ubuntu14.2 and SLES12SP1 onwards.
2. TSBDRVD REST Service configuration/installation/start-up may fail in few cases (due to firewall restriction or network constraints).
3. If installation fails due to service failure on (standalone) systems then skip TSBDRV REST service installation. See point 2.a above in current section.
4. It is highly recommended to not change the port configuration during installation.
5. If you wish to change SSL certificates (and respective private key) then use working Key-Certificate pair only.
6. Installer can add firewall exception for firewalld, ufw and SuSEfirewall2 firewalls only.
7. TSBDRV REST Services are not supported for AArch64, hence step 3 onwards are not applicable.

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2.3.1 Linux Folder Tree Structure

This folder tree structure post installation is shown below.

Folder Name	Description
/opt/	Folder location where application is installed
/opt/toshiba/	Root node of folder tree structure is named as “toshiba”
/opt/toshiba/tsbdrv/	Application folder for tsbdrv specific files
/opt/toshiba/tsbdrv/bin/	This folder contains the Linux Toshiba TSBDRV executable binary
/opt/toshiba/tsbdrv/lib64/	This folder contains the Linux Toshiba TSBDRV library
/opt/toshiba/tsbdrv/scripts/	This folder contains python based wrapper scripts.
/opt/toshiba/tsbdrv/etc/	This folder contains TSBDRVD REST service configuration files. This folder is not created for AArch64.
/opt/toshiba/tsbdrv/etc/ssl/	This folder contains default SSL key/certificate pair for TSBDRVD REST service HTTP communication. This folder is not created for AArch64.
/var/log/toshiba/tsbdrv/	Folder location where command logs will be placed.
/var/lock/toshiba/tsbdrv/	Folder location where lock file will be created.

2.4 Setup using Zip Files

Zip files for supported platforms are named as follows

1. Linux 64-bit tarball: lin-toshiba-CC_rel-tsbdrv-MM.mm.bbbb.x64.tgz
2. Windows 64-bit zip file: win-toshiba-CC_rel-tsbdrv- MM.mm.bbbb.x64.zip
3. VMware ESXI 64-bit tarball: vmware_esxi7-toshiba-CC_rel-tsbdrv-MM.mm.bbbb.x64.tgz

2.4.1 Untar and Execute on Linux

Steps to follow in command prompt with Administrative privileges (Super User)

Step 1: Copy tarball to directory

Step 2: Untar the file using 'tar' or suitable command.

```
E.g: $ tar xvzf lin-toshiba-CC_rel-tsbdrv- MM.mm.bbbb.x64.tgz -touch
```

Step 3: Change directory to 'tsbdrv'

```
$cd tsbdrv
```

Step 4: Export dynamic library load path

```
$export LD_LIBRARY_PATH=$PWD
```

Step 5: Execute 'tsbdrv'

```
$ ./tsbdrv version
```

2.4.1.1 Folder Structure

Folder Name	Description
<extracted path>/tsbdrv/	Application folder for tsbdrv specific files
<extracted path>/tsbdrv/scripts/	This folder contains python based wrapper scripts.
/var/log/toshiba/tsbdrv/	Folder location where command logs will be placed.
/var/lock/toshiba/tsbdrv/	Folder location where lock file will be created.

2.4.2 Unzip and Execute on Windows

Steps to follow

Step 1: Copy Zip package to directory

Step 2: Unzip the file using any zip file software

Step 3: Open command prompt as administrator.

Step 4: Change directory to 'TSBDRV' in unzipped path.

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```
$cd TSBDRV
```

Step 5: Execute 'tsbdrv'.

```
$ ./tsbdrv.exe version
```

2.4.2.1 Folder Structure

Folder Name	Description
<extracted path>\TSBDRV	Folder location where application and libraries are installed
<extracted path>\TSBDRV	Folder location where command logs will be placed.
%PROGRAMDATA%\TOSHIBA\TSBDRV\lock	Folder location where lock file will be created.

2.4.3 Untar and Execute on VMware ESXI (Linux)

Steps to follow in command prompt with Administrative privileges (Super User)

Step 1: Copy tarball to directory (Note: It is recommended to use the directory under mounted volume path.)

Step 2: Untar the file using 'tar' or suitable command.

```
E.g: $ tar xvfz vmware_esxi7-toshiba-CC_rel-tsbdrv-MM.mm.bbbbbb.x64.tgz -touch
```

Step 3: Change directory to 'tsbdrv'

```
$cd tsbdrv
```

Step 4: Export dynamic library load path

```
$export LD_LIBRARY_PATH=$PWD
```

Step 5: Execute 'tsbdrv'

```
$ ./tsbdrv version
```

2.4.3.1 Folder Structure

Folder Name	Description
<extracted path>/tsbdrv/	Application folder for tsbdrv specific files.
/var/log/toshiba/tsbdrv/	Folder location where command logs will be placed.
/var/lock/toshiba/tsbdrv/	Folder location where lock file will be created.

2.5 Setup using Standalone Files

Files for supported platforms are named as follows

1. Linux 64-bit tarball: lin-toshiba-standalone-CUSTOMER_rel-tsbdrv- MM.mm.bbbb.x64.tgz
2. FreeBSD 64-bit tarball: freebsd-toshiba-standalone-01_rel-tsbdrv- MM.mm.bbbb.x64.tgz

2.5.1 Untar and Execute

Steps to follow in command prompt with Administrative privileges (Super User)

Step 1: Copy tarball to directory

Step 2: Untar the file using 'tar' command or suitable command.

E.g: tar xvf lin-toshiba-standalone-CUSTOMER_rel-tsbdrv- MM.mm.bbbb.x64.tgz

Step 3: Change directory to 'tsbdrv'.

\$cd tsbdrv

Step 4: Execute 'tsbdrv'.

\$/tsbdrv version

2.5.1.1 Folder Structure

Folder Name	Description
<extracted path>/tsbdrv/	Application folder for tsbdrv specific files
/var/log/toshiba/tsbdrv/	Folder location where command logs will be placed.
/var/lock/toshiba/tsbdrv/	Folder location where lock file will be created.

2.6 Updating Software

2.6.1 Updating Software on Linux

2.6.1.1 Updating from 5.X to 6.X

Upgrade from TSBDRV-5.X to TSBDRV-6.X will not prompt for TSBDRV REST service configuration.

1. Start the Installation on a command prompt with Administrative privileges (Super-User).

Command
#./install-lin-toshiba-01_rel-tsbdrv-13.05a.7850.x64.bin
Output

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TO BE BOUND BY ALL OF ITS TERMS AND CONDITIONS. PLEASE SELECT
THE APPROPRIATE OPTION BELOW.
(A)ccept / (D)ecline
```

2. Accept the license agreement by entering “A”.
3. After successful installation, following message will be displayed on console
 - a. For RHEL7, Ubuntu14.2 and SLES12SP1 onwards.

Output

```
Installer requires all the instances of tsbdrv stopped!
Stopping...
Service tsbdrv started.

tsbdrv updated successfully.
```

- b. For older Linux.

Output

```
tsbdrv updated successfully.
```

Note

Once this tool is installed, it won't be updated with same tool having different Customization Code (CC). You have to uninstall existing tool first and then install the tool with different Customization Code (CC).

2.6.1.2 Updating from 4.2 and earlier

Upgrade from TSBDRV-4.x to TSBDRV-6.0 will work same as new installation.

See [Installation on Linux](#) for details.

2.7 Uninstalling the TOSHIBA TSBDREV Tool

2.7.1 Uninstalling tool from Linux

The TOSHIBA TSBDREV tool can be uninstalled by running the uninstall script from /opt/toshiba/tsbdrv/bin directory.

Command
/opt/toshiba/tsbdrv/bin/uninstall.sh

1. Output for RHEL7, Ubuntu14.2 and SLES12SP1 onwards (if TSBDREV REST service was configured during installation)

Output
tsbdrv will be removed from the system. Are you sure to remove tsbdrv? [y/n] Y Stopping tsbdrvd server: [OK] tsbdrv removed from the system successfully.

2. Output on older Linux or for RHEL7, Ubuntu14.2 and SLES12SP1 onwards (if TSBDREV REST service was not configured during installation)

Output
tsbdrv will be removed from the system. Are you sure to remove tsbdrv? [y/n] Y tsbdrv removed successfully from the system.

Note

If TSBDREV REST Service was configured during installation then, same is stopped and removed during uninstall. Configuration removal window will appear on screen during uninstall.

3. Troubleshoot steps

3.1 Ubuntu 22.04 Keyboard Issue

After logging to Ubuntu 22.04 setup as 'root' user, sometimes user input via keyboard becomes unresponsive. To fix it, execute below command from terminal.

```
ibus restart
```

4. Open Source Software

TSBDRV includes following open source code:

OSS Name	OSS Version	OSS Website	OSS License
rapidJson	1.0.2	https://rapidjson.org/	MIT License
libarchive	3.4.2	https://www.libarchive.org/	Copyright by Tim Kientzle
cpprest	2.9.0	https://github.com/microsoft/cpprestsdk	MIT License
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