



INSTALLATION GUIDE

Solidigm™ Storage Tool - CLI

July 2023

SOLIDIGM™

Revision History

Revision	Software Version	Description	Revision Date
001	1.0	<ul style="list-style-type: none">Initial Release	March 2022
002	1.1	<ul style="list-style-type: none">Updated System Requirements	May 2022
003	1.2	<ul style="list-style-type: none">Document Changes	July 2022
004	1.4	<ul style="list-style-type: none">Update ESXi version support	Dec. 2022
005	1.5	<ul style="list-style-type: none">Added ESXi 8.0 Support	Jan. 2023
006	1.9	<ul style="list-style-type: none">Update ESXi Restart Requirement	July 2023

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1 Introduction

This document provides guidance for installing the Solidigm™ Storage Tool (SST) software for the Windows, Linux, and ESXi operating systems.

1.1 Requirements

The SST is supported on the following:

- Operating systems on x64 Architecture:
 - Windows:
 - Windows Server 2012, 2012 R2, 2016, 2019, 2022
 - Windows 10, 11
 - Linux:
 - Red Hat Enterprise Linux (RHEL) 8.0, 8.2, 8.3, 8.4
 - CentOS 8.0, 8.2, 8.3, 8.4
 - SLES 12, 15
 - Ubuntu 16.04, 18.04, 20.04
 - ESXi:
 - ESXi 7.x
 - ESXi 8.0
- Available space of 400MBs

1.2 Additional Installer Notes

Review the following notes regarding SST Requirements:

- Earlier OS Versions not listed in supported list are generally expected to work but are not actively validated and not officially supported

2 Windows Installation and Startup

Download the Windows version of Solidigm™ Storage Tool (SST) and save it to the system with the SSDs you will be configuring with the SST.

2.1 Installing the Solidigm™ Storage Tool

To install the Solidigm™ Storage Tool software:

1. Double-click on the downloaded executable file to open the self-extracting archive.

This extracts the installer .EXE file and the Solidigm™ Storage Tool User's Guide.

2. If Windows User Account Control prompts to confirm with "Do you want to allow this app to make changes to your device?"

Click Yes

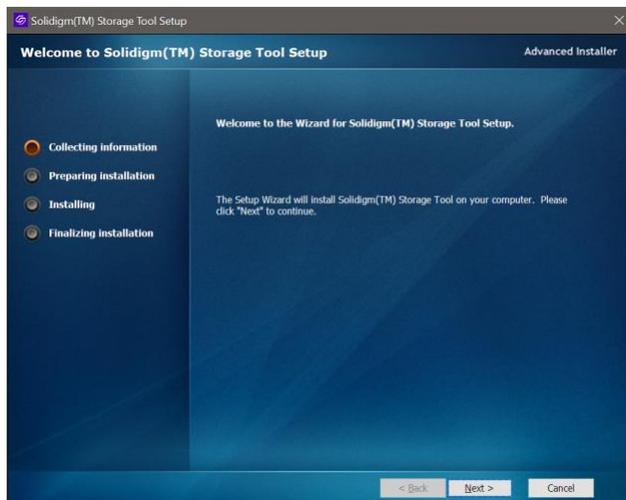
3. Double-click on the installer .EXE file. This opens the Welcome Screen

4. Click Next

Accept the terms of the End-User License Agreement and click Next.

The End-User License Agreement displays.

User must accept the license to proceed.



Click Next

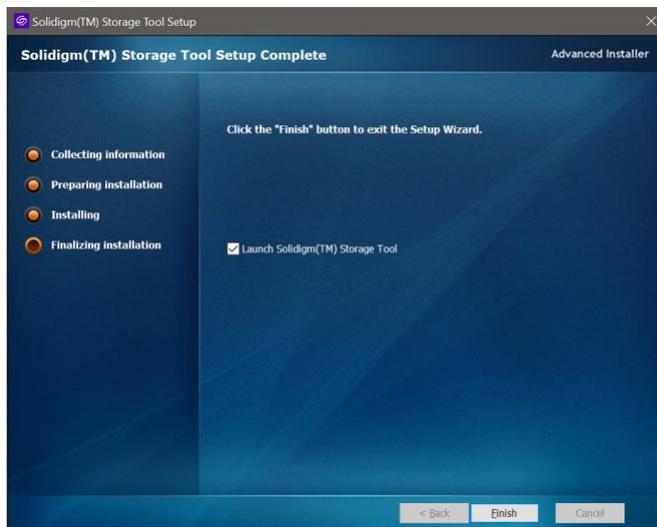
5. Click Install on Ready to Install screen.

6. If Windows User Account Control prompts to confirm with “Do you want to allow this app to make changes to your device?”. click Yes.
7. Tool installs in:

64 bit:

c:\Program Files\Solidigm\Solidigm(TM) Storage Tool

The installation folder is also added to Environment Variables –PATH.
It can be run from any directory.

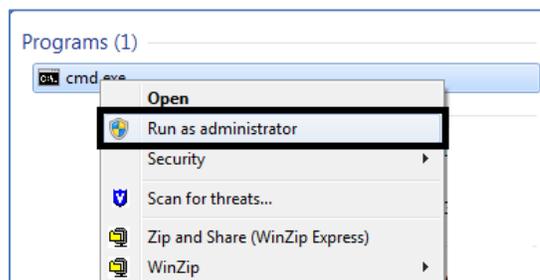


8. Click Finish

2.2 Launching the Solidigm™ Storage Tool

To launch the SST software, do the following:

1. Type cmd in the Windows search field to show the cmd.exe program
2. Right click to open the menu and select Run as administrator.



3. In the MS_DOS prompt window, you can either type change to the directory where the files were exacted (for example, C:\Program Files\Solidigm\Solidigm(TM) Storage Tool\)
4. Run the sst command.

Launch it as a single command by supplying the command and parameters immediately following the executable name.

```
sst show -ssd
```

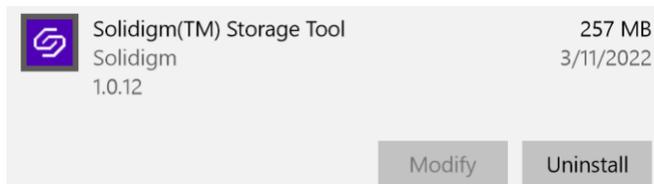
For a description of the command options and features, see the Solidigm™ Storage Tool User Guide.

2.3 Uninstalling the Solidigm™ Storage Tool

Use the Windows Control Panel to uninstall the SST software.

Follow these steps to uninstall the SST using Windows Uninstaller:

1. At the Control Panel, click "Program and Features,"
2. Highlight Solidigm™ Storage Tool in the list of programs.



3. Click Uninstall.

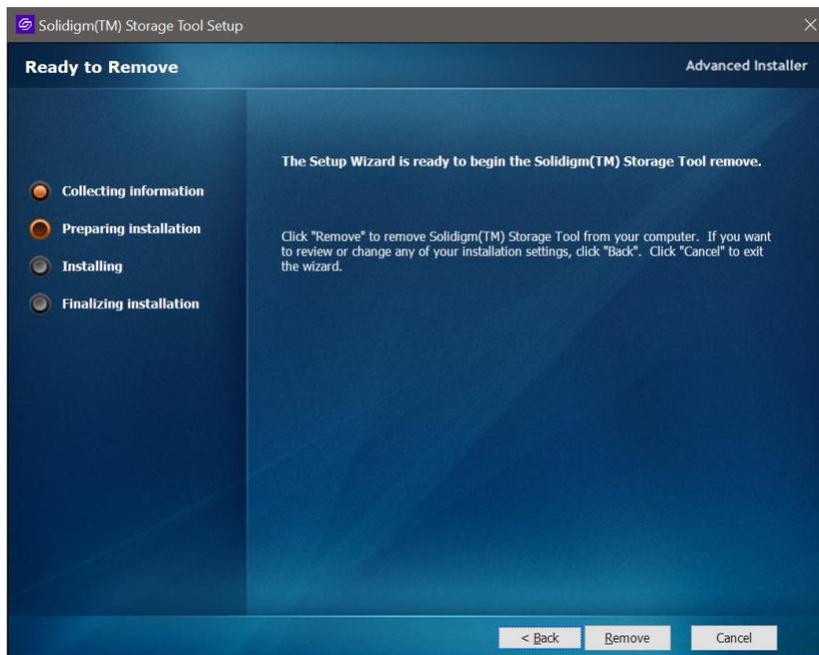
If prompted to, allow Administrator privileges to uninstaller. Follow these steps to uninstall.

Follow these steps to uninstall the tool using SST installer:

1. Double-click on the downloaded executable file to open the self-extracting archive.
This extracts the installer .EXE file and the SST User Guide.
2. If Windows User Account Control prompts you with “Do you want to allow this app to make changes to your device?”, select Yes.
3. Double-click on the installer .EXE file; this opens the Welcome Screen.
4. Click Next



5. Click Remove



6. Click Remove. If prompted, Allow Admin access for User Access Control. This will show the uninstall progress screen.
7. Click Next.
8. If prompted, Select Yes or No to restart the computer for the changes to take effect, then click Finish.

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3 Linux Installation and Startup

Download the Linux version of the Solidigm™ Storage Tool and copy it to a directory

When the installer finishes:

- The sst executable file will be placed in /usr/bin directory.
- The libraries used by SST will be placed in /usr/lib/sst directory.

3.1 Viewing RPM Metadata

View the RPM metadata with the command:

```
sudo rpm -q -i -p <package_name>.rpm
```

The following shows an example of the output:

```
Name      : intelmas
Version   : 1.0.5.400
Release   : 0
Architecture: x86_64
Install Date: (not installed)
Group     : default
Size      : 266816072
License   : "Intel(R) NSG End User Software License Agreement"
Signature : RSA/SHA1, Mon 23 Dec 2019 08:42:21 PM EST, Key ID 4994c89d5d1bc6fe
Source RPM : intelmas-1.0.5.400-0.src.rpm
Build Date : Mon 23 Dec 2019 08:41:43 PM EST
Build Host : linuxDevhdu16
Relocations : /
Packager  : "Intel(R) Corporation"
Vendor    : "Intel(R) Corporation"
URL       : https://downloadcenter.intel.com/product/35125/Memory-and-Storage
Summary   : "Intel(R) Memory And Storage Tool
Description :
"Intel(R) Memory And Storage Tool
The
Intel(R) Memory And Storage Tool provides firmware update capability as well as reading and setting many
configuration settings on Intel's SSD Family of products."
```

3.2 RHEL Command Line Installation and Removal

To install SST using the command line, use the RPM utility to run the following command:

```
sudo rpm -ivh <package_name>.rpm
```

The following shows a sample output:

```
sudo rpm -ivh sst-1.0.12-0.i386.rpm
warning: sst-1.0.12-0.i386.rpm: Header V4 RSA/SHA1 Signature, key ID 35c760e5: NOKEY
Verifying...      ##### [100%]
Preparing...     ##### [100%]
Updating / installing...
 1:sst-1.0.12-0   ##### [100%]
```

After the tool is installed, run the following command to get information:

```
sudo rpm -q -i sst
```

To remove an RPM package, run the following command:

```
sudo rpm -e sst
```

3.3 Ubuntu Command Line Installation and Removal

To install the SST using the command line, use the DPKG utility to run the following command:

```
sudo dpkg -i <package_name>.deb
```

The following shows a sample output:

```
remlab@ctool_Ubuntu_16:~/Validation$ sudo dpkg -i sst_1.0.12-0_amd64.deb
sudo: unable to resolve host ctool_Ubuntu_16.04
Selecting previously unselected package sst.
(Reading database ... 251800 files and directories currently installed.)
Preparing to unpack sst_1.0.12-0_amd64.deb ...
Unpacking sst (1.0.12-0) ...
Setting up sst (1.0.12-0) ...
```

After the tool is installed, run the following command to get information:

```
sudo dpkg -l sst
```

To remove an RPM package, run the following command:

```
sudo dpkg -r sst
```


4 ESXi Installation and Startup

Download the ESXi version of SST and copy it to a directory on an ESXi host (i.e. /tmp).

When the installer finishes the executable file and associated libraries will be placed in /opt/solidigm/intelmas directory.

4.1 Installing the Solidigm™ Storage Tool

Follow the steps below to install SST.

1. Login to your ESXi Host. You will need to set your Host's acceptance level to "CommunitySupported". Run the following command to see what your host's acceptance level is set to:

```
> esxcli software acceptance get
PartnerSupported
```

2. Run the following command to set your Host's acceptance level to "CommunitySupported":

```
> esxcli software acceptance set --level=CommunitySupported
Host acceptance level changed to 'CommunitySupported'.
```

3. Login to your ESXi host and run the following esxcli command:

```
esxcli software vib install -v <package name>.vib
```

Note: Best Known Method: Copy VIB to /tmp folder and install using the command below from root directory to avoid VIB download error.

```
esxcli software vib install -v /tmp/<package name>.vib
```

4. Once successfully installed you will see the following:

```
Installation Result
Message: Operation finished successfully.
Reboot Required: true
VIBs Installed: INT_bootbank_solidigm_storage_tool_1.0.12-400
VIBs Removed:
VIBs Skipped:
```

4.2 Launching the Solidigm™ Storage Tool

To launch the SST software, take these steps:

1. Login to the ESXi host.
2. Change directory to `/opt/solidigm/sst`
3. Run the sst command

Launch with a single command by supplying the command and parameters immediately following the executable name.

```
./sst show --ssd
```

4. For a description of the command options and features, see the SST User Guide.

4.3 Uninstalling the Solidigm™ Storage Tool

To uninstall the SST software, take the steps:

1. Login to the ESXi host.
2. Run the following esxcli command:

```
esxcli software vib remove -n solidigm_storage_tool
```