

🎆 Dasharo Tools Suite Status 🎆









- Short Introduction to Dasharo Tools Suite (DTS)
- Overview of DTS v1.2.1 to v1.2.8
- Future Plans: DTS v2.0.0 and Beyond
- Q&A



Dasharo Tools Suite a.k.a. DTS



- Set of tools and scripts running in minimal Linux environment
 - https://docs.dasharo.com/dasharo-tools-suite/overview
- DRY: https://bit.ly/dasharo-tools-suite
- Since last DUG we had quite a lot of silent releases and one public:
 - by silent we mean not announced in Dasharo Universe documentation,
 - v1.2.6 beta/preview release, not recommended for wider use,
 - v1.2.8 fully featured, validated release into which we will dive on next slides,





- v1.2.1 2023-06-16
 - Updated coreboot-utils to support Jasper Lake.
- v1.2.2 2023-06-16
 - Updated coreboot-utils to support Alder Lake.
- v1.2.3 2023-06-16 (no mistake three releases in one day)
 - Enabled devmem applet for buxybox, which helps in gathering important data for porting and debugging.
- v1.2.4 2023-07-12
 - me_cleaner was added
- v1.2.5 2023-08-07
 - we realize we have bug in Dell BIOS Update downloading which is important for deployment of Dasharo for Dell OptiPlex 7010/9010, that problem was fixed,
- v1.2.6 2023-08-31
 - we added 9elements/txt-suite which is useful in validating and diagnosing issues we face while integrating TrenchBoot as AEM for Qubes OS



v1.2.7 - 2023-09-05

- Added Dasharo zero-touch initial deployment on MSI PRO Z790-A for DES users.
- Added Dasharo firmware update to version v1.1.2 on MSI PRO Z690-A for DES users.
- Updated coreboot-utils to support Raptor Lake.
- Added couple UX improvements for DTS scripts, specially in the context of DES users.
- One more time fix downloading Dell BIOS Update packages.

v1.2.8 - 2023-09-06

Check for SMM protection before trying to flash.





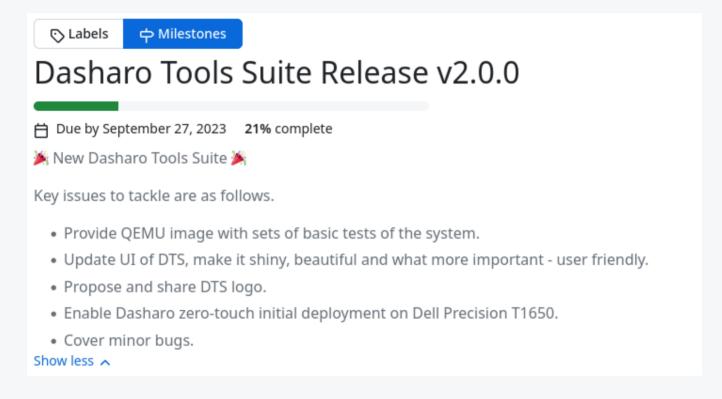
- We are aware of feature requests and bugs related to DTS.
 - It works for most use cases, but still need improvements.
- We have to improve hardware checks before flashing.
 - There are reports of people flashing MSI Z690-A v1.1.1 on platforms with Intel Raptor Lake, which is not supported by that release and DTS should detect and prevent sych lockout.
- As of 26/09/2023 there are 31 bugs, enhancements and other reports open in dasharo-issues repository, and 17 clossed.
- If you feel you found some problem please report it:
 - https://github.com/Dasharo/dasharo-issues/issues



```
Dasharo Tools Suite 1.2.8 DasharoToolsSuite ttyS0
DasharoToolsSuite login: root (automatic login)
 DTS version v1.2.8
  1) Dasharo HCL report - dump hardware information from this device
 2) Install Dasharo firmware
  4) Load DES keys
  8) Start SSH server
 10) Power off system
  11) Reboot system
Enter an option:
```

 If you want to try DTS in QEMU please check: <u>https://github.com/Dasharo/dasharo-issues/issues/338#issuecomment-1734578527</u>





https://github.com/Dasharo/dasharo-issues/milestone/5



DTS Roadmap (no changes)

- Device authentication to improve Dasharo firmware update
 - client authentication mechanism working with updates
 - o ETA: Q4 2023
 - GitHub issue #55
- Expanding DTS root file system via NFS or other solution
 - adds posibility to load custom kernel modules
 - protects against endless growth of root file system size
 - ETA: Q4 2023
 - GitHub issue #366
- DTS zero touch initial deployment for firmware as is
 - multistage approach to improve open-source firmware adoptability
 - ETA: Q1 2024
 - o GitHub issue #384
- DTS security features provisioning and attestation
 - improve the trustworthiness of computing device
 - o ETA: Q2 2024
 - GitHub issue #385

