🎆 Dasharo Tools Suite Status 🎆

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- 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

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- 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,

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- **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

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- **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

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Dasharo Tools Suite 1.2.8 DasharoToolsSuite ttyS0

DasharoToolsSuite login: root (automatic login)


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   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
   9) Shell
   10) Power off system
   11) Reboot system

Enter an option: 
```

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

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

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- Device authentication to improve Dasharo firmware update
  - client authentication mechanism working with updates
  - 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
  - GitHub issue #384
- DTS security features provisioning and attestation
  - improve the trustworthiness of computing device
  - ETA: Q2 2024
  - GitHub issue #385

Q&A