



Dasharo User Group #10 🎉 and Developers vPub 0xF 🍺

👋 Dasharo User Group #10 🎉
Dasharo Community Release Roadmaps



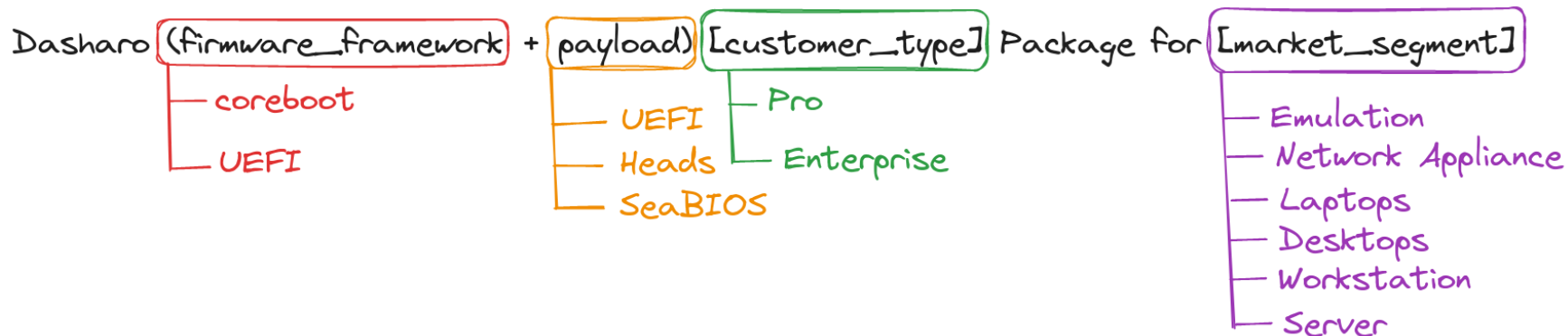


Please note that the roadmap for the Dasharo Community Support Program is subject to change and may not represent final release candidates or end of support dates. This roadmap is intended to provide guidance and direction for the program's development, but is not a guarantee of specific timelines or outcomes. For more information on release candidates or release dates, please contact the Dasharo Team directly.

- For those watching this presentation first time we really encourage to look at past videos to get better context and understanding of the format.
 - [DUG#9](#), [DUG#8](#), [DUG#7](#), [DUG#6](#), [DUG#5](#), [DUG#4](#), [DUG#3](#), [DUG#2](#), [DUG#1](#)

The screenshot shows the GitHub interface for the repository 'Dasharo / dasharo-issues'. The 'Issues' tab is selected, showing 399 issues. Below the navigation bar, the 'Milestones' tab is active, displaying a list of milestones. The first milestone is 'Emulation QEMU Q35 v0.2.0', which is 0% complete with 2 open issues and 0 closed issues. The second milestone is 'Dasharo Tools Suite Release v1.2.20', which is 7% complete with 13 open issues and 1 closed issue. Each milestone entry includes a progress bar, completion percentage, issue counts, last update time, and links to edit, close, or delete the milestone.

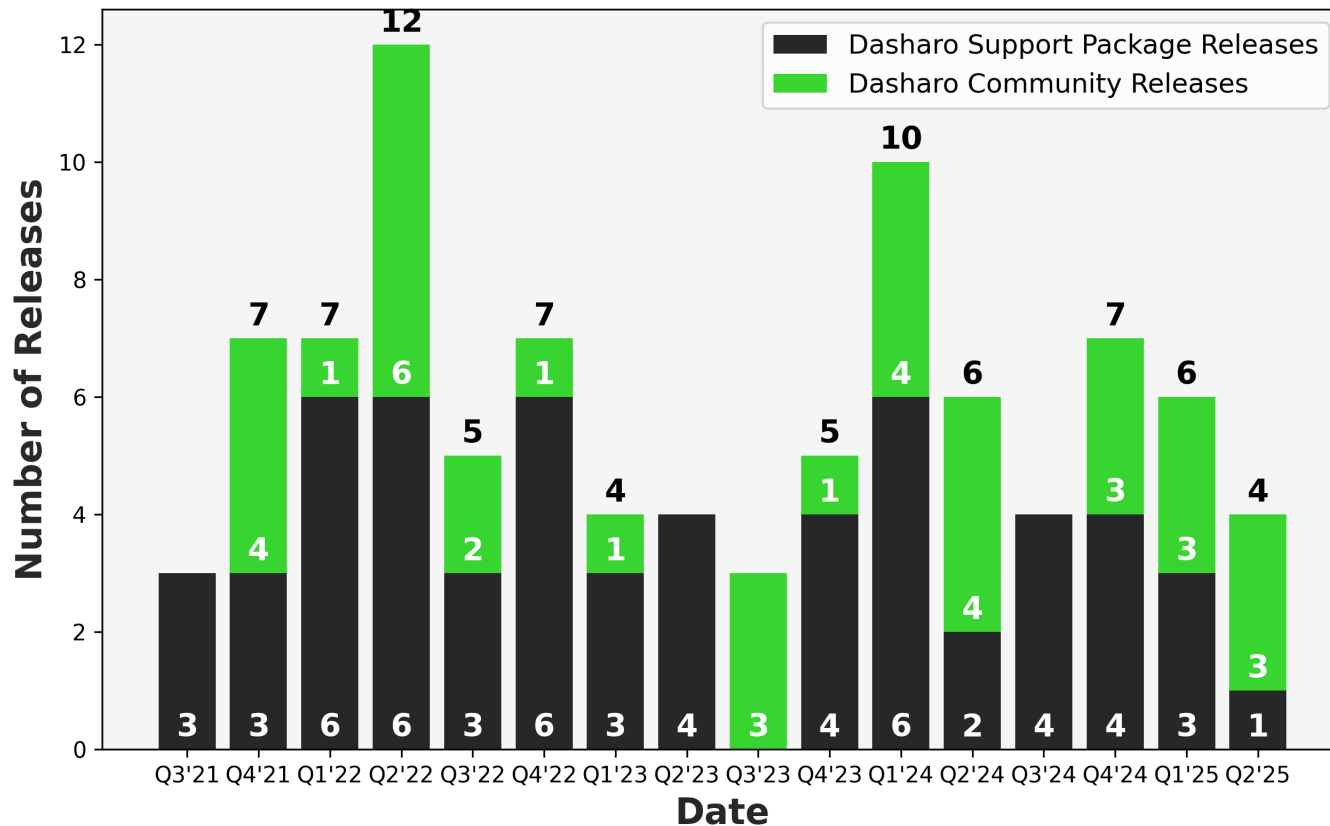
Milestone	Progress	Open Issues	Closed Issues	Last Updated
Emulation QEMU Q35 v0.2.0	0% complete	2 open	0 closed	Last updated about 15 hours ago
Dasharo Tools Suite Release v1.2.20	7% complete	13 open	1 closed	Last updated 8 days ago



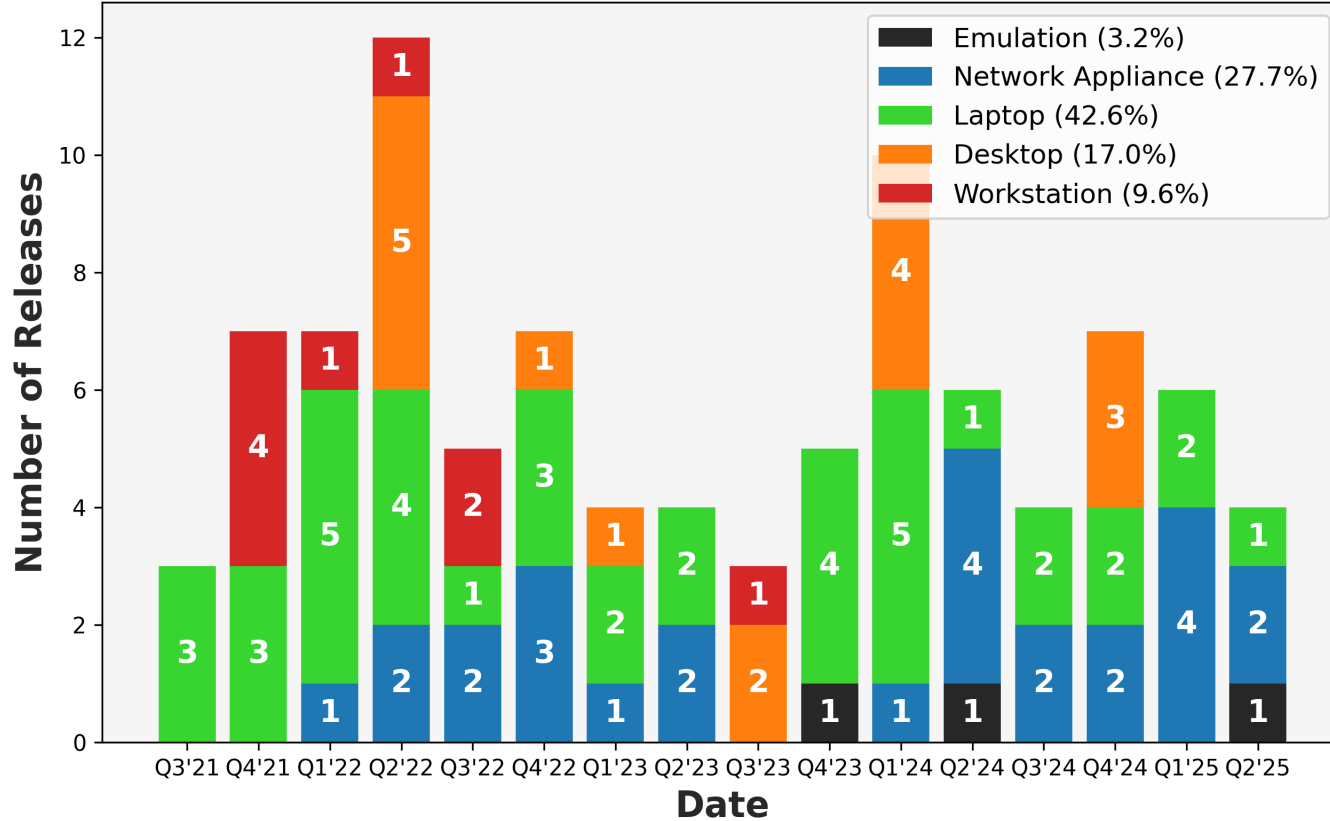
- In short Dasharo Pro Package (DPP)
- Dasharo (coreboot+UEFI) Pro Package for Desktop
- Dasharo (coreboot+Heads) Pro Package for Laptops
- Dasharo (coreboot+SeaBIOS) Enterprise Package for Network Appliance

More details about it can be found in previous editions of the talk e.g. [DUG #9](#).

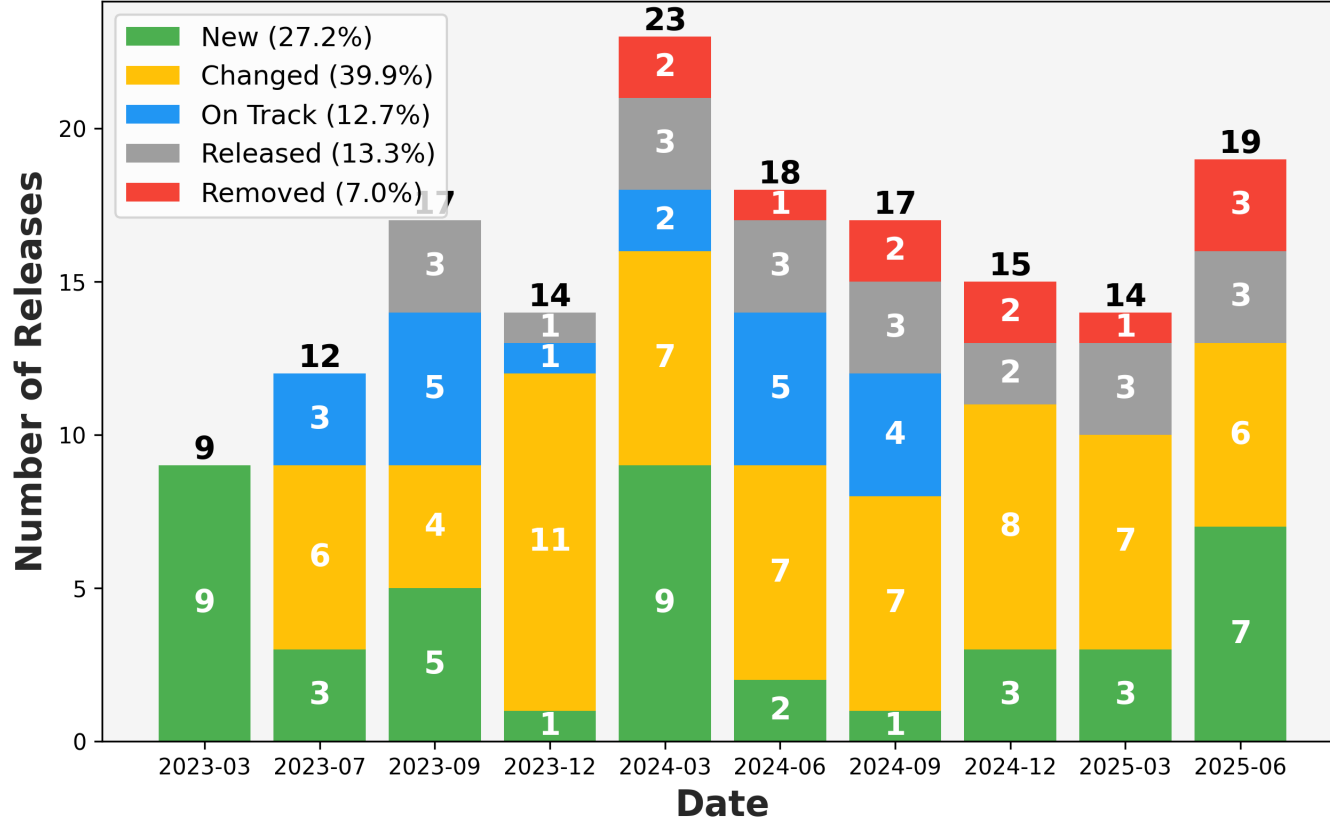
Number of Dasharo Public Releases in time



Dasharo Public Releases per market segment

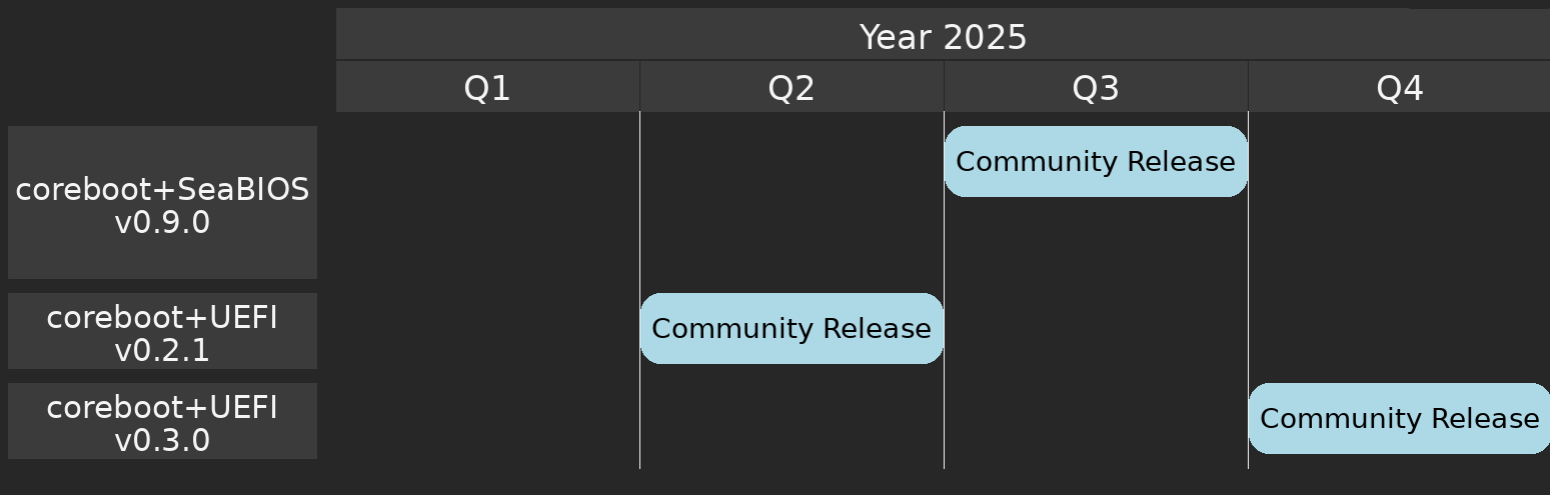


Dasharo Roadmap Status Overview



Dasharo Emulation QEMU Q35 Roadmap

subject to change



- coreboot+SeaBIOS still waiting for its prime time, it is connected with transition to OSFV, which we are very hesitant to do because it is quite a lot of work and we have other projects
- [GitHub Milestone Link](#) to QEMU Q35 (coreboot+SeaBIOS) v0.9.0
- [GitHub Milestone Link](#) to QEMU Q35 (coreboot+UEFI) v0.3.0 which potentially could be scheduled this year.

QEMU Q35 v0.2.1 SBOM

- Dasharo coreboot fork based on 25.03 revision b8e6b3eb
- Dasharo EDKII fork based on edk2-stable202502 revision e8cd1856
- Dasharo iPXE fork based on 2024.07 revision 63ed3e35

What is inside?

- The Local APIC timer is now used instead of the HPET
- Boot time improvements - some measurements show 50% bump

Known issues

- Measured Boot PCR values don't match the TPM measurement log ([#1354](#))

Dasharo Network Appliance PC Engines apu2/3/4/6 Roadmap

subject to change



	Year 2025			
	Q1	Q2	Q3	Q4
coreboot+SeaBIOS v24.08.00.01		DPP Release		
coreboot+SeaBIOS v25.06.00.01		DPP Release		
coreboot+UEFI v0.9.1			DPP Release	

Dasharo Community Support Roadmap | June 2025 (v0.10) | CC-BY-SA-4.0

- We successfully released v24.08.00.01. More details later.
- v24.12 and v25.03 were replaced with v25.06 release.
- Work on v25.06.00.01 will happen in Q3'25.

PC Engines apu2/3/4/6 v24.08.00.01 SBOM

- coreboot based on 24.08 revision fadbc031
- Dasharo Patchqueue Initiative based on 24.08.00.01 revision d944bc39
- SeaBIOS based on rel-1.16.3.1 revision ac9eb800
- sortbootorder based on v24.08.00.01 revision 6188b4f4
- iPXE based on 2024.08 revision 301644ab
- AMD binary blobs remain the same.

What is inside?

- Support for improved version of SeaBIOS rel-1.16.3.1
- sortbootorder update to v24.08.00.01
 - fixed various compilation issues to make it compatible with new compiler
 - QEMU support needed for validation under OSFV

Dasharo Network Appliance Protectli VP4670 Roadmap

subject to change



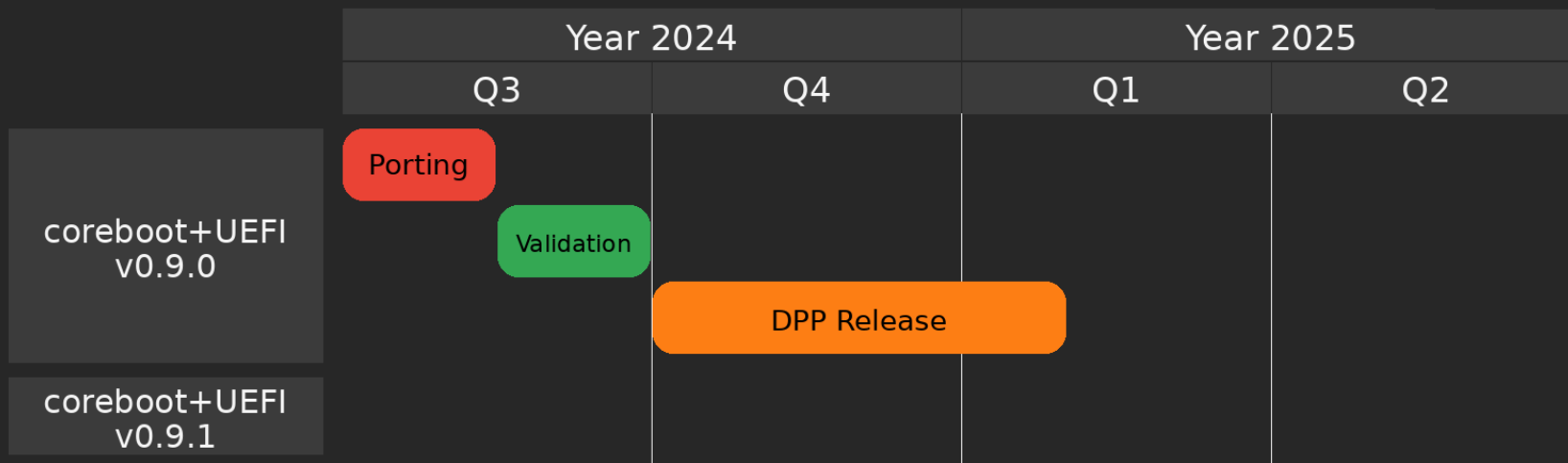
	Year 2025			
	Q1	Q2	Q3	Q4
coreboot+SeaBIOS v0.9.0			DPP Release	

Dasharo Community Support Roadmap | June 2025 (v0.10) | CC-BY-SA-4.0

- [TrenchBoot Support was released](#)
- Unfortunately Dasharo release requires quite a lot of resources to be invested in validation, because of that we keep delaying this.
- Although we still discussing it because we see at least two issues with it:
 - [Intel TXT doesn't work on VP4670](#) - closed as invalid.
 - [Hangs during microcode update](#) - it was identified as kernel issue and needs testing.
- [Milestone link](#)

Dasharo Network Appliance Hardkernel Odroid-H4+ Roadmap

subject to change



Dasharo Community Support Roadmap | June 2025 (v0.10) | CC-BY-SA-4.0

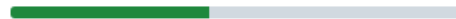
- We already started work on `v0.9.1`
- It would cover some interesting features we will look into on next slide.
- [Milestone link](#)

Hardkernel Odroid-H4 (coreboot+UEFI) v0.9.1

Open

Due by September 3, 2025 Last updated 3 hours ago

44% complete



Overview: https://docs.dasharo.com/variants/hardkernel_odroid_h4/overview/

☐ Open 5 Closed 4

- ☐ ☒ **Dasharo (coreboot+UEFI) for Odroid H4+ is not reproducible** bug firmware hardkernel_odroid_h4 needs review 9
#1250 · pietrushnic opened on Feb 22
- ☐ ☒ **In-Band ECC on Odroid H4** enhancement hardkernel_odroid_h4 5
#1276 · frafra opened on Mar 22
- ☐ ☒ **Perform tests on Odroid H4+ Ultra** hardkernel_odroid_h4 1
#1277 · pietrushnic opened on Mar 22
- ☐ ☒ **Add 4x1 bifurcation support for netcard on ODROID H4** enhancement hardkernel_odroid_h4 2
#1281 · miczyg1 opened on Mar 24
- ☐ ☒ **Can't delete signature of enrolled EFI file from DB as it's not shown** bug firmware hardkernel_odroid_h4 needs review 4
#1365 · m-iwanicki opened last week

Boot time performance improvements



miczyg1 commented [5 hours ago](#)

Member

Author



Very nice, what is the boot time of the vendor BIOS? Perhaps it's worth a marketing campaign?

For normal boot (with the boto timeout set to 2s like in Dasharo) totally incomparable:

```
$ systemd-analyze  
Startup finished in 20.424s (firmware)
```



Although the boot time does not seem to be stable, sometimes it is 10s, sometimes 8s. In worst case Dasharo is slower by 2s.

With AMI Fast Boot enabled results are similar, but still 1s worse than us:

```
Startup finished in 5.385s (firmware)
```



[@pietrushnic](#)



Dasharo Laptop Novacustom Roadmap

subject to change



	Year 2024	Year 2025		
	Q4	Q1	Q2	Q3
V56TU coreboot+Heads v0.9.0	Validation DPP Release			
NV4x coreboot+Heads v0.9.2			Validation DPP Release	

Dasharo Community Support Roadmap | June 2025 (v0.10) | CC-BY-SA-4.0

- Dasharo (coreboot+Heads) for NV4x v0.9.2 was released according to plan.
- This year we have no other plans for releasing Dasharo (coreboot+Heads). Next release will be planned for 2026 when time will come.

Novacustom NV4x 12th Gen v0.9.2 SBOM

- (UPDATED) Dasharo heads fork based on v0.2.1 revision da9b8ed9
- Intel Management Engine version v16.1.30.2307
- Intel Flash Descriptor version v1.0
- Intel Firmware Support Package version ADL-P C.1.75.10
- Intel microcode version ADL L0/R0 0x00000433 revision microcode-20230808
- (UPDATED) Intel microcode version RPL J0/Q0 0x00004121 revision microcode-20240514

What is inside?

- Introduced Quiet Mode for reduced technical output in logs
- Added TPM extend operations logging while maintaining quiet mode
- Added support for GPG Admin/User PIN output grabbing for Nitrokey HOTP verification
- Integrated EFF Diceware short wordlist v2 for easier passphrase generation
- Introduced automatic Secrets App reset logic for Nitrokey 3
- Unified and enhanced passphrase generation logic in recovery shell
- Quiet Mode now logs all technical details to `/tmp/debug.log` instead of showing them in the console
- Improved TPM2 primary handle debugging and error handling
- Refactored the OEM Factory Reset process to clarify mode-based security implications
- Improved kexec boot configuration handling with enhanced security warnings
- Transitioned from ash shell to bash for improved scripting consistency
- Suppressed unnecessary grep errors for missing `/etc/config.user`
- Resolved logging inconsistencies when performing TPM resets
- Fixed Secure App PIN handling during Nitrokey 3 re-ownership

What is inside?

- Corrected Diceware dictionary parsing and selection method for unbiased passphrase generation
- Eliminated redundant USB Security dongle detection messages
- Add missing TPM PIRQ route for NV41
- Integrate downcoring and hyper-threading options in Alder Lake SoC

Fixes

- Power button doesn't work in Qubes
- Reproducibility problems with libcrypto and libtss2

Known issues

- Hotkeys (e.g KEY_PLAYPAUSE) are not implemented in Qubes OS
- Existing Qubes installation is not found as bootable after transition back to EDK2

Dasharo Desktop Dell OptiPlex 7010/9010 Roadmap

subject to change



	Year 2024	Year 2025		
	Q4	Q1	Q2	Q3
coreboot+UEFI v0.1.1	Validation			
	DPP Release			

Dasharo Community Support Roadmap | June 2025 (v0.10) | CC-BY-SA-4.0

- TrenchBoot Support was released
- Exactly the same situation as with Protectli VP4670.
- No release plans at this point.

Dasharo Desktop MSI PRO Z690-A Roadmap

subject to change



	Year 2025		Year 2026	
	Q3	Q4	Q1	Q2
coreboot+UEFI v1.1.5	DPP Release			
coreboot+UEFI v1.2.0		Community Release		
coreboot+UEFI v1.3.0				Community Release

Dasharo Community Support Roadmap | June 2025 (v0.10) | CC-BY-SA-4.0

- EOL for Dasharo support for MSI PRO Z690-A is 2026 EOY.
- This year there are two upcoming releases: DPP and DCR.
- Support will most likely end next year unless there will be enough renewal to support next release, but since that hardware is no longer sold we are concern it would not be the case.

Dasharo Desktop MSI PRO Z790-P Roadmap

subject to change



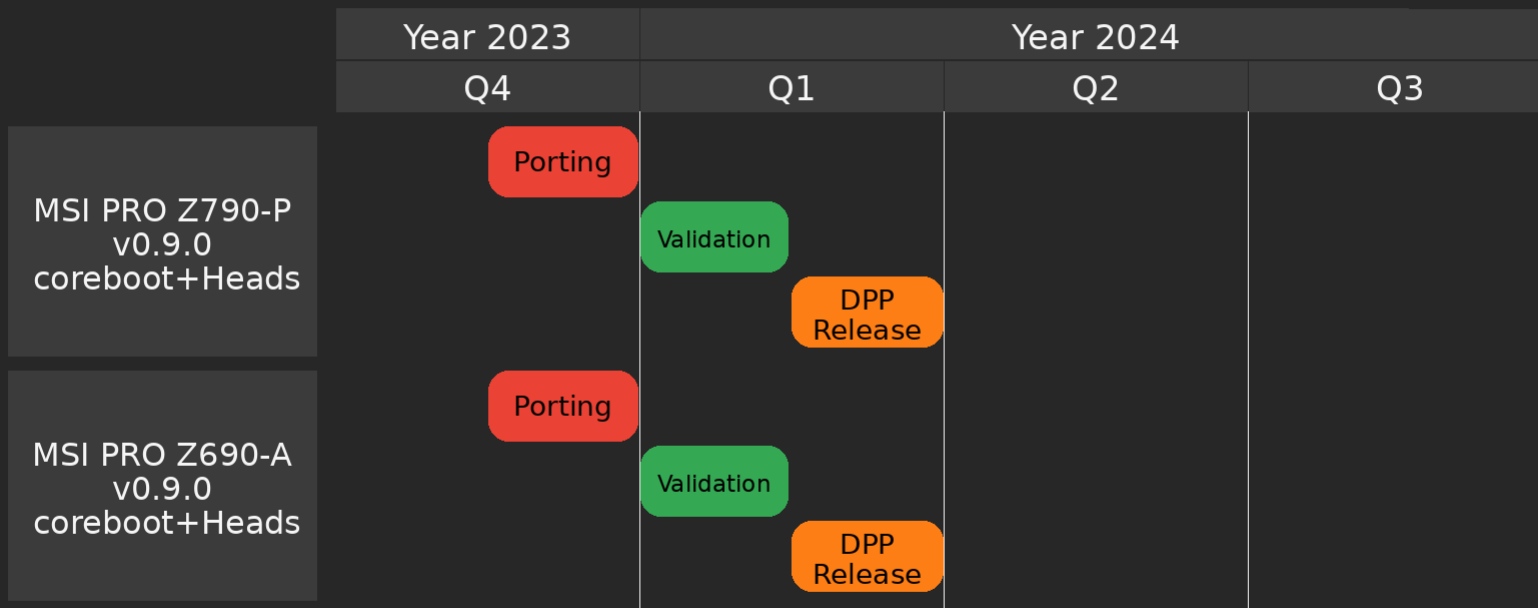
	Year 2025		Year 2026	
	Q3	Q4	Q1	Q2
coreboot+UEFI v0.9.3	DPP Release			
coreboot+UEFI v1.0.0		Community Release		
coreboot+UEFI v1.1.0				Community Release

Dasharo Community Support Roadmap | June 2025 (v0.10) | CC-BY-SA-4.0

- The same situation as with Z690-A.

Dasharo Desktop Roadmap

subject to change



Dasharo Community Support Roadmap | June 2025 (v0.10) | CC-BY-SA-4.0

- Unfortunately, we have no new plans.

The background is a dark gray with decorative circuit-like lines in a lighter gray. These lines are located in the corners: top-left, top-right, and bottom-right. They consist of straight lines of varying lengths and angles, some ending in small circular nodes.

Q&A

The background is a dark gray with decorative circuit-like lines in a lighter gray. These lines are located in the corners: top-left, top-right, and bottom-right. They consist of straight lines of varying lengths and angles, some ending in small circular nodes.

CHANGELOG

Changelog DUG#10

- (NEW) QEMU Q35 v0.3.0 planned for Q4'25
- (NEW) QEMU Q35 v0.2.1 planned for Q2'25
- (RELEASED) QEMU Q35 v0.2.1 planned for Q2'25
- (CHANGED) QEMU Q35 v0.9.0 planned for Q2'25
- (RELEASED) PC Engines apu2/3/4/6 Dasharo (creboot+SeaBIOS) v24.08.00.01 planned for Q4'24
- (REMOVED) PC Engines apu2/3/4/6 Dasharo (coreboot+SeaBIOS) v25.03.00.01 planned for Q3'25
- (REMOVED) PC Engines apu2/3/4/6 Dasharo (coreboot+SeaBIOS) v25.12.00.01 planned for Q2'25
- (NEW) PC Engines apu2/3/4/6 Dasharo (coreboot+SeaBIOS) v25.06.00.01 planned for Q2'25
- (CHANGED) PC Engines apu2/3/4/6 Dasharo (coreboot+UEFI) v0.9.1 planned for Q2'25
- (CHANGED) Protectli VP4670 planned for Q2'25
- (CHANGED) Hardkernel Odroid-H4 Dasharo(coreboot+UEFI) v0.9.1 planned for Q2'25
- (RELEASED) NV4x Dasharo (coreboot+Heads) v0.9.2 planned for Q1'25
- (REMOVED) NV4x Dasharo (coreboot+SeaBIOS) v1.7.2.x planned for Q1'25
- (NEW) MSI Z690-A v1.1.5 planned for Q3'25

Changelog DUG#10

- (CHANGED) MSI Z690-A v1.2.0 planned for Q2'24
- (NEW) MSI Z690-A v1.3.0 planned for Q3'25
- (NEW) MSI Z790-A v0.9.3 planned for Q3'25
- (CHANGED) MSI Z790-A v1.0.0 planned for Q2'24
- (NEW) MSI Z790-A v1.1.0 planned for Q3'25

Changelog DUG#9

- (CHANGED) QEMU Q35 v0.9.0 planned for Q1'25
- (NEW) PC Engines apu2/3/4/6 Dasharo (coreboot+SeaBIOS) v25.03.00.01 planned for Q3'25
- (NEW) PC Engines apu2/3/4/6 Dasharo (coreboot+SeaBIOS) v25.12.00.01 planned for Q2'25
- (CHANGED) PC Engines apu2/3/4/6 Dasharo (coreboot+UEFI) v0.9.1 planned for Q1'25
- (CHANGED) PC Engines apu2/3/4/6 Dasharo (creboot+SeaBIOS) v24.08.00.01 planned for Q4'24
- (CHANGED) Protectli VP4670 planned for Q1'25
- (RELEASED) Hardkernel Odroid-H4 Dasharo(coreboot+UEFI) planned for Q4'24
- (NEW) Hardkernel Odroid-H4 Dasharo(coreboot+UEFI) v0.9.1 planned for Q2'25
- (RELEASED) V56TU Dasharo (coreboot+Heads) v0.9.0 planned for Q4'24
- (CHANGED) NV4x Dasharo (coreboot+Heads) v0.9.2 planned for Q1'25
- (REMOVED) NV4x Dasharo (coreboot+SeaBIOS) v1.7.2.x planned for Q1'25
- (RELEASED) Dell OptiPlex 7010/9010 v0.1.1 planned for Q4'24
- (CHANGED) MSI Z690-A v1.2.0 planned for Q1'24
- (CHANGED) MSI Z790-P v1.0.0 planned for Q1'25

Changelog DUG#8

- (NEW) QEMU Q35 v24.08.00.01 planned for Q1'25
- (REMOVED) PC Engines apu2/3/4/6 Dasharo (creboot+SeaBIOS) legacy planned for Q4'24
- (CHANGED) PC Engines apu2/3/4/6 Dasharo (coreboot+UEFI) v0.9.1 planned for Q4'24
- (CHANGED) PC Engines apu2/3/4/6 Dasharo (creboot+SeaBIOS) v24.08.00.01 planned for Q3'24
- (CHANGED) Protectli VP4670 planned for Q4'24
- (REMOVED) MinnowBoard Turbot Dasharo(coreboot+UEFI) planned for Q3'24
- (CHANGED) Hardkernel Odroid-H4 Dasharo(coreboot+UEFI) planned for Q4'24
- (NEW) V56TU Dasharo (coreboot+Heads) v0.9.0 planned for Q4'24
- (NEW) NV4x Dasharo (coreboot+Heads) v0.9.2 planned for Q1'25
- (CHANGED) NV4x Dasharo (coreboot+SeaBIOS) v1.7.2.x planned for Q1'25
- (CHANGED) Dell OptiPlex 7010/9010 v0.1.0 planned for Q3'24
- (RELEASED) MSI Z690-A v1.1.4 planned for Q4'24
- (CHANGED) MSI Z690-A v1.2.0 planned for Q4'24

Changelog DUG#8

- (RELEASED) MSI Z790-P v0.9.2 planned for Q4'24
- (CHANGED) MSI Z790-P v1.0.0 planned for Q4'24

The image features a dark gray background with stylized, light gray circuit-like lines in the corners. These lines form various geometric shapes, including rectangles and triangles, and end in small circles, resembling electronic components or connectors. The lines are more prominent in the top-left and top-right corners, with some extending into the bottom corners.

Q&A