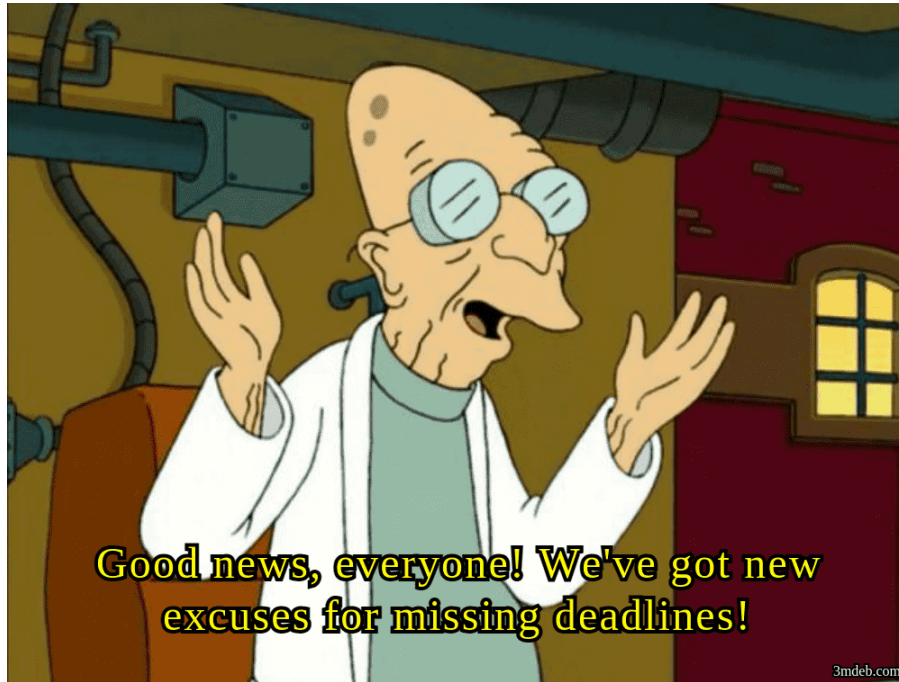


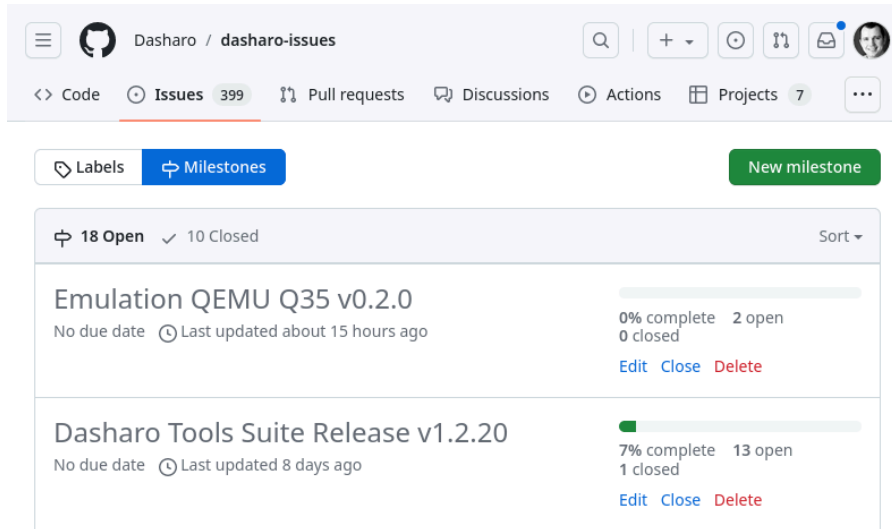
👋 Dasharo User Group #9 🎉
Dasharo Community Release Roadmaps





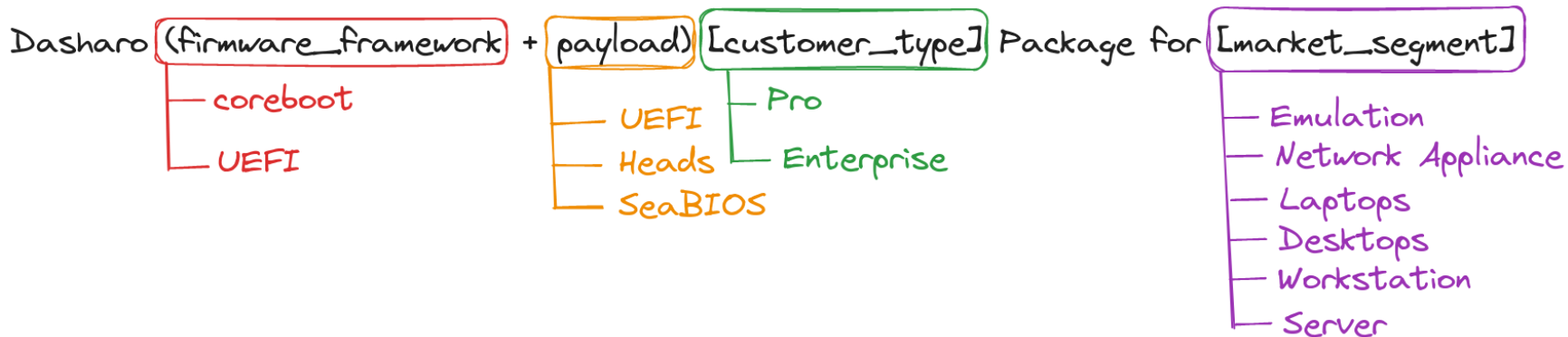
Please note that the roadmap for the Dasharo Community Support Program is subject to change and may not represent final release candidates or end of support dates. This roadmap is intended to provide guidance and direction for the program's development, but is not a guarantee of specific timelines or 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#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 active, showing 399 issues. There are buttons for 'Labels', 'Milestones', and 'New milestone'. The issues are grouped into two milestones:

- 18 Open** (10 Closed) - Sort
- Emulation QEMU Q35 v0.2.0**: 0% complete, 2 open, 0 closed. Last updated about 15 hours ago. Actions: Edit, Close, Delete.
- Dasharo Tools Suite Release v1.2.20**: 7% complete, 13 open, 1 closed. Last updated 8 days ago. Actions: Edit, Close, Delete.



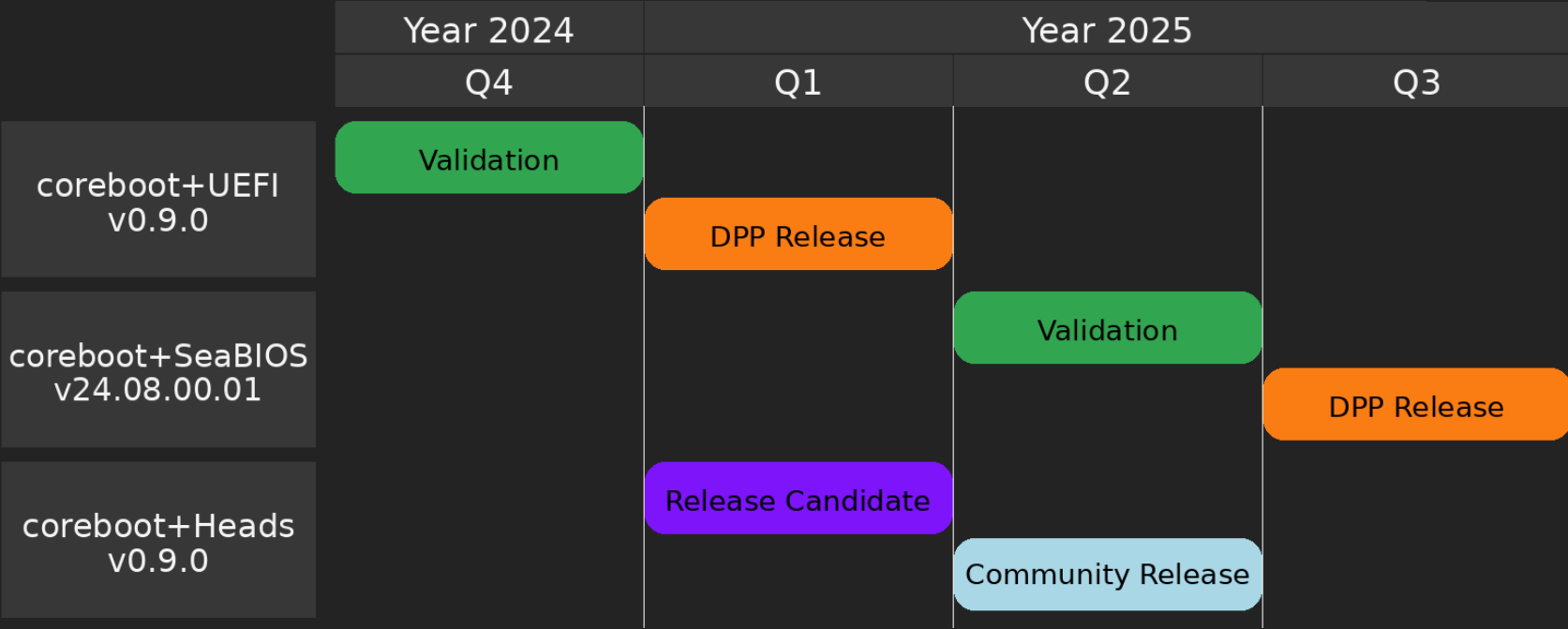
- In short Dasharo Pro Package (DPP)
- Dasharo (coreboot+UEFI) Pro Package for Desktop
- Dasharo (coreboot+Heads) Pro Package for Laptops
- Dasharo (coreboot+SeaBIOS) Enterprise Package for Network Appliance

Notice

We finished transition announced in [#762](#). Official documentation can be found on [Dasharo Universe](#) website.

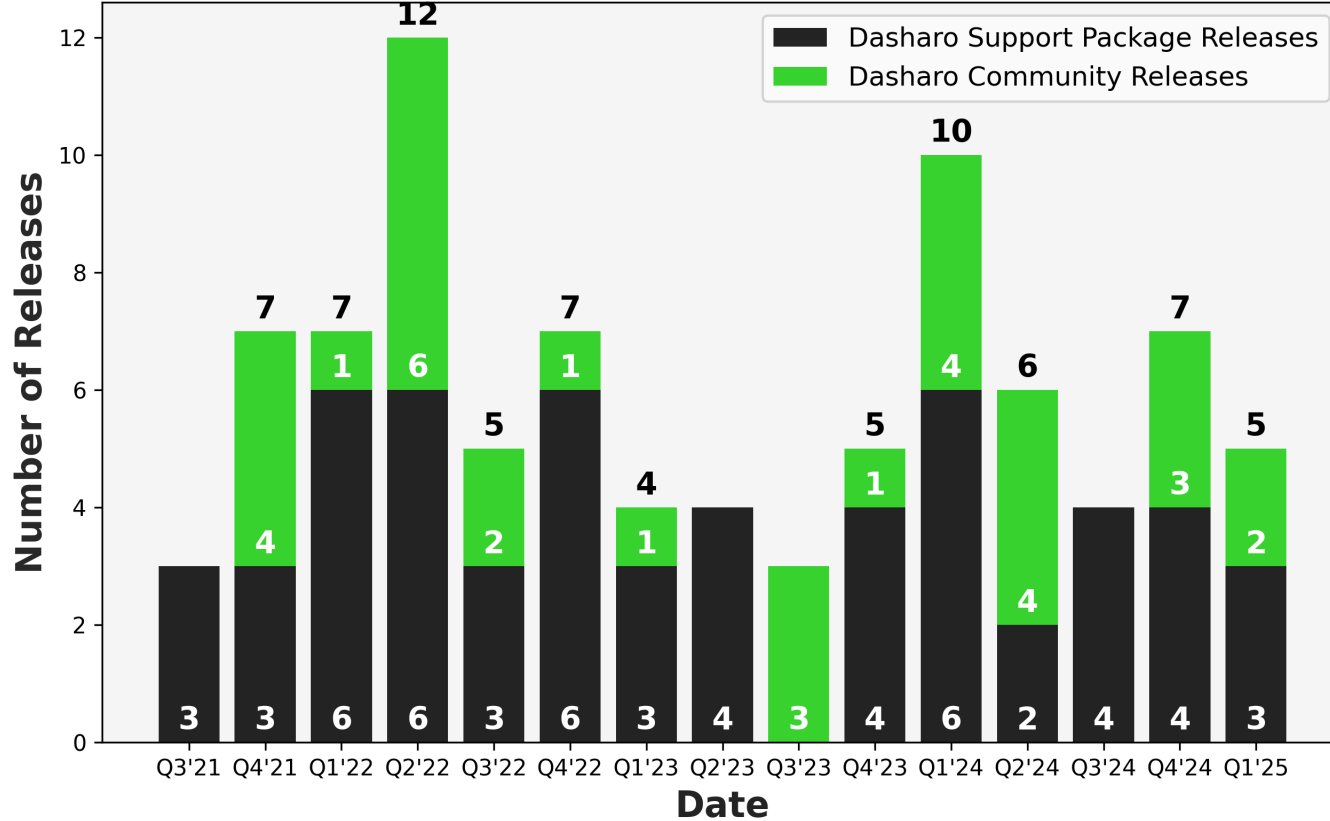
Dasharo [Segment] [Vendor] [Model] Roadmap

subject to change

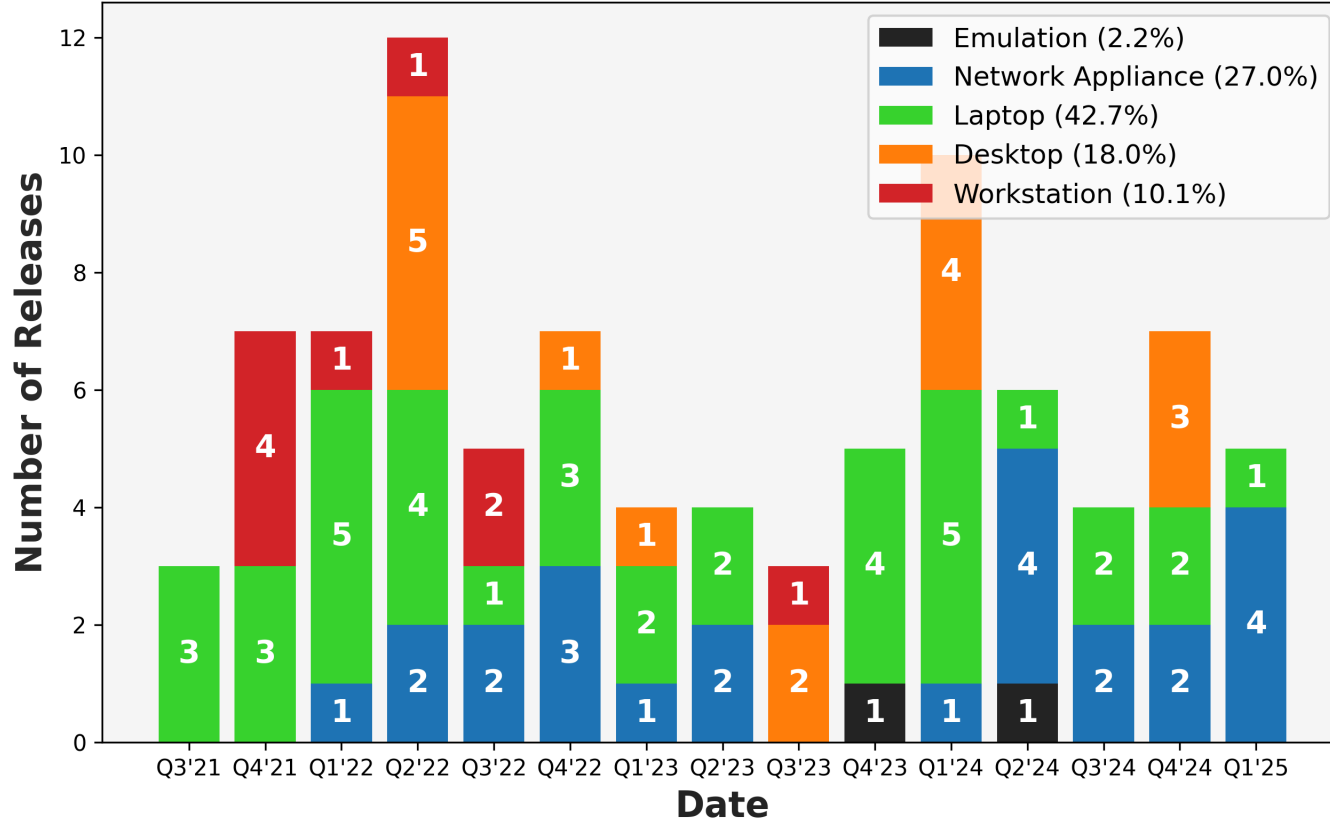


Dasharo Community Support Roadmap | December 2024 (v0.8) | CC-BY-SA-4.0

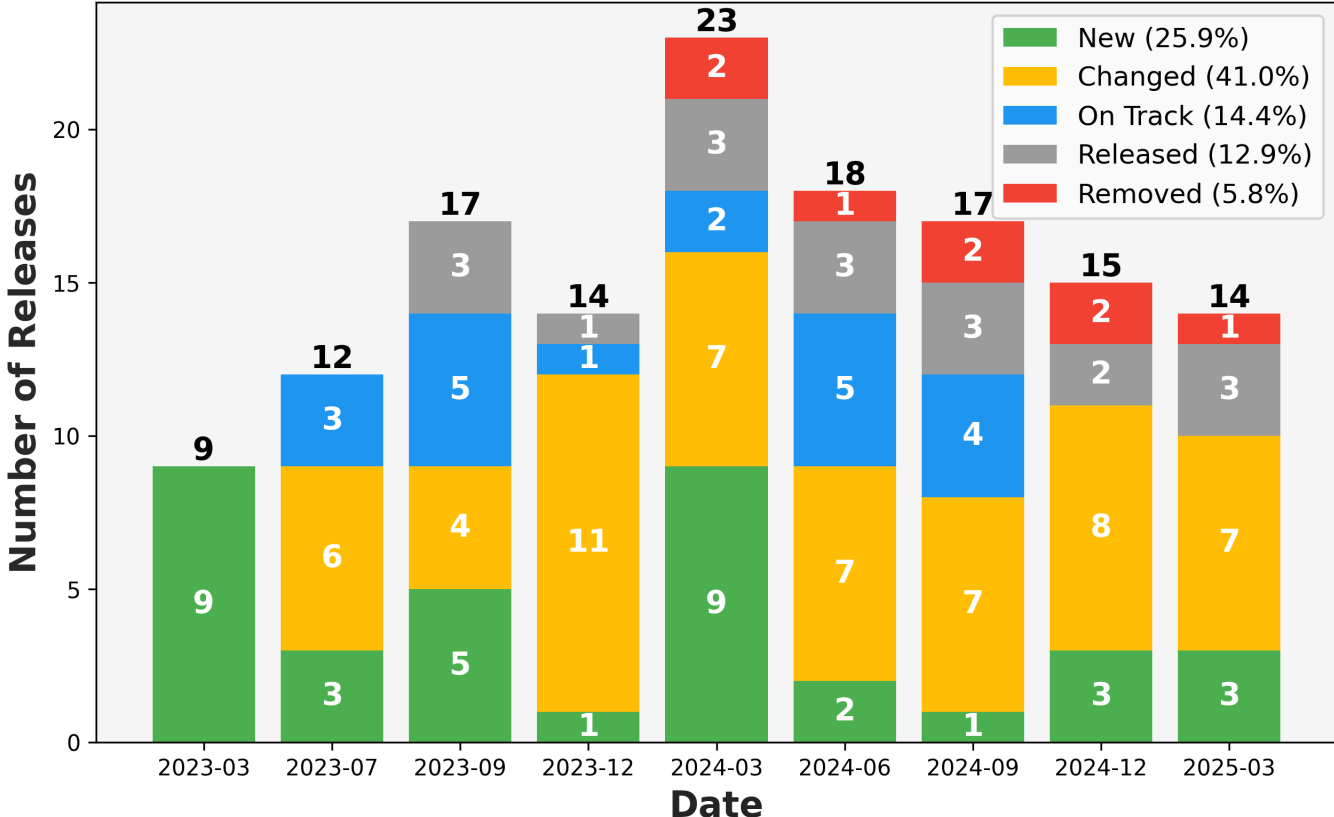
Number of Dasharo Public Releases in time



Dasharo Public Releases per market segment



Dasharo Roadmap Status Overview



Dasharo Emulation QEMU Q35 Roadmap

subject to change



	Year 2024	Year 2025		
	Q4	Q1	Q2	Q3
coreboot+SeaBIOS v0.9.0	Release Candidate		Community Release	

Dasharo Community Support Roadmap | March 2025 (v0.9) | CC-BY-SA-4.0

- This is still the same unreleased milestone based on our experience with Dasharo (coreboot+SeaBIOS) for PC Engines, we plan to release the same code for QEMU Q35.
- This will improve CI/CD and automatic validation of coreboot+SeaBIOS and [sortbootorder](#) payload.
- [GitHub Milestone Link](#) to QEMU Q35 (coreboot+SeaBIOS)
- [GitHub Milestone Link](#) to QEMU Q35 (coreboot+UEFI) which potentially could be scheduled this year.

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

subject to change



Year 2025

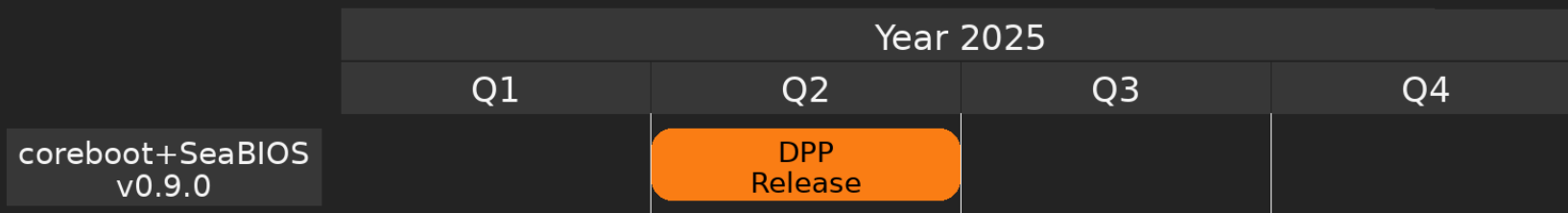
	Q1	Q2	Q3	Q4
coreboot+SeaBIOS v24.08.00.01		DPP Release		
coreboot+SeaBIOS v24.12.00.01		DPP Release		
coreboot+SeaBIOS v25.03.00.01			DPP Release	
coreboot+UEFI v0.9.1		DPP Release		

Dasharo Community Support Roadmap | March 2025 (v0.9) | CC-BY-SA-4.0

- According to information on mailing list next release will happen in lat March and it will be `v25.03` .
- Unfortunately, because of big backlog we will most likely tune in to `v25.03.00.01` in Q3'25.
- This is due to fact that v24.08.00.01 already need *just* validation.

Dasharo Network Appliance Protectli VP4670 Roadmap

subject to change

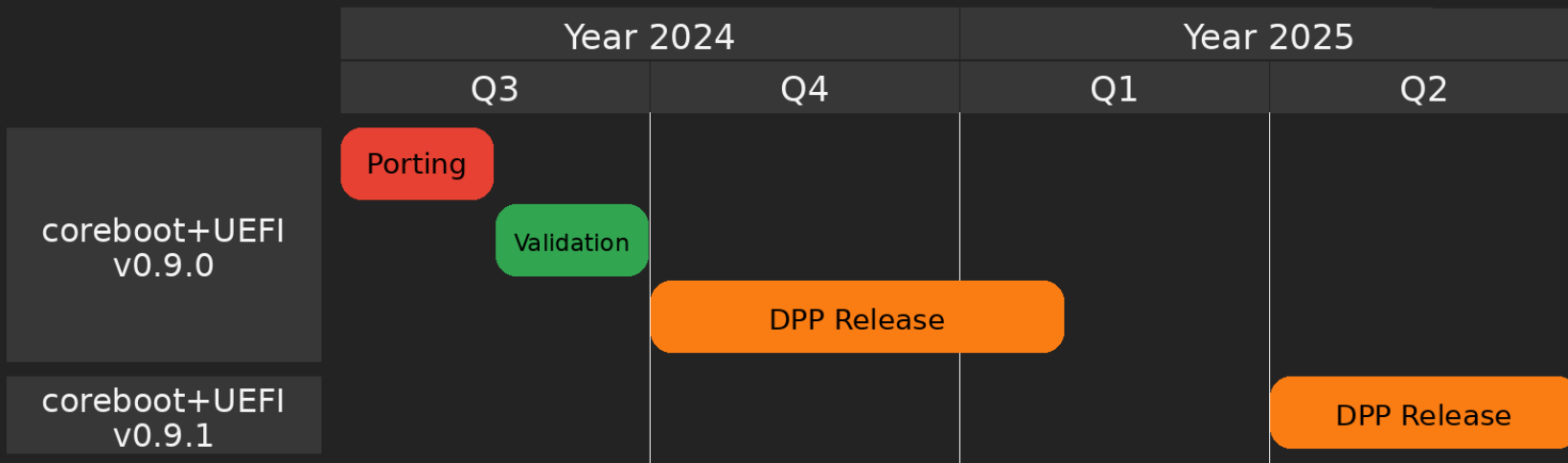


Dasharo Community Support Roadmap | March 2025 (v0.9) | CC-BY-SA-4.0

- Now this release is under risk and most likely will be replaced by release Dasharo (coreboot+UEFI) with TrenchBoot support for that platform.
- Although we still discussing it because we see at least two issues with it:
 - [Intel TXT doesn't work on VP4670](#) - when platform does not enable `GETSEC[SENTER]` .
 - [Hangs during microcode update](#) when platform sometimes fails on OS microcode update.
- [Milestone link](#)

Dasharo Network Appliance Hardkernel Odroid-H4+ Roadmap

subject to change



Dasharo Community Support Roadmap | March 2025 (v0.9) | CC-BY-SA-4.0

- We finally released support for Odroid-H4+.
- It is simple and minimalistic release. We aim to extend support in upcoming quarter.

Hardkernel Odroid-H4 v0.9.0 SBOM

- Firmware framework: Dasharo downstream based on coreboot 24.02
- Payload: Dasharo downstream based on edk2-stable202402
- iPXE based on 2024.05
- vboot: Dasharo downstream version
- FSP: IoT ADL-N MR4 (5061_00)
- Intel Management Engine version v16.50.10.1351
- Intel microcode version ADL-N N0 0x17 07/12/2023

- Initial support for the Hardkernel ODROID H4 device, based on Intel Alder Lake N
- UEFI compatible interface
- Support for discrete TPM
- UEFI Secure Boot support
- Boot logo customization support
- USB boot support
- NVMe boot support
- TPM Measured Boot
- UEFI Shell
- Network boot
- Windows 11 booting
- Ubuntu LTS booting
- Serial port console redirection
- Vboot Verified Boot
- Intel ME HAP disable
- BIOS flash protection for Vboot recovery region
- Setup menu password configuration
- SMM BIOS write protection
- USB stack disable option in setup menu
- Network stack disable option in setup menu

Known issues



Bug

When performing SUSP005.001 test that performs 15 s3 sleep and resume cycles using fwts 1/15 cycles is always too short 15~18s as opposed to expected 30s.

Planned features

- Tests on Odroid-H4 Ultra.
- Provide ME disabling menu.
- Give ability to enable/disable bifurcation.
- Give ability to enable/disable IBECC.

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 | March 2025 (v0.9) | CC-BY-SA-4.0

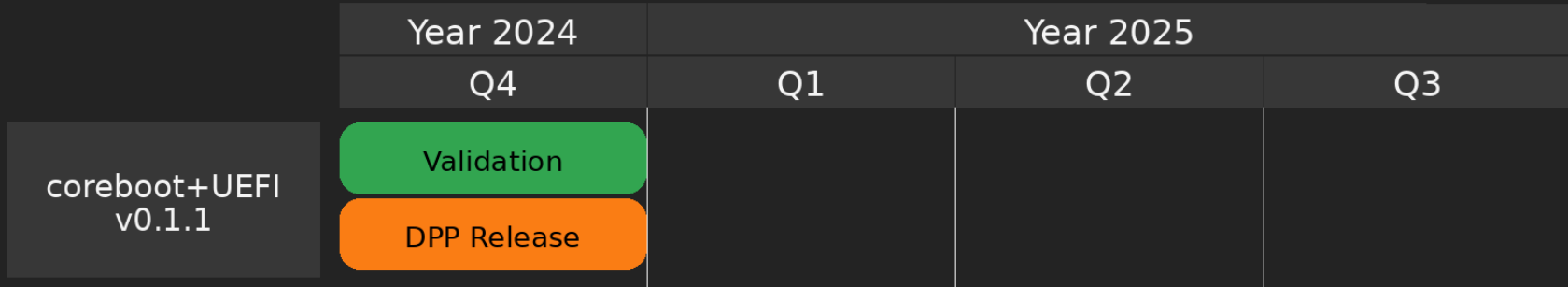
- Dasharo (coreboot+Heads) for V56TU v0.9.0 new Intel Meteor Lake laptops was released.
- Our next priority would update of NV4x, because of other priorities we had to shift it by one quarter.
- Since NV4x is out of stock in Novacustom we decided to drop TrenchBoot as Qubes OS AEM release for that platform.

V56TU Dasharo (coreboot+Heads) v0.9.0 SBOM

- Firmware framework: Dasharo downstream based on heads v0.2.1
- Dasharo fork of System76 EC
- vboot: Dasharo downstream version
- Intel Management Engine version v18.0.5.2040
- Intel Firmware Support Package for Meteor Lake-H version 2024/04/30 v4122_12
- Intel microcode version MTL C0 0x1c 03/01/2024

Dasharo Desktop Dell OptiPlex 7010/9010 Roadmap

subject to change



Dasharo Community Support Roadmap | March 2025 (v0.9) | CC-BY-SA-4.0

- We released v0.1.1 on time, but we decide to change it to Dasharo (coreboot+UEFI) instead of SeaBIOS.
- We plan version that will support DRTM, but it is too early to announce it.

Dell OptiPlex 7010/9010 v0.1.1 SBOM

- Firmware framework: Dasharo downstream based on coreboot 24.02
- Payload: Dasharo downstream based on edk2-stable202405
- Latest Intel published microcode-20190514

- Support for Dell OptiPlex 7010/9010
- UEFI Boot Support
- Configurable boot order
- Configurable boot options
- UEFI Secure Boot support
- Custom boot logo
- Dasharo setup menu full screen mode support
- SMM BIOS write protection
- Firmware update mode
- Setup menu password configuration
- USB stack disable option in setup menu
- Network stack disable option in setup menu
- Serial Console Redirection option

Dasharo Desktop MSI PRO Z690-A Roadmap

subject to change



Year 2025

Q1

Q2

Q3

Q4

coreboot+UEFI
v1.2.0

Validation

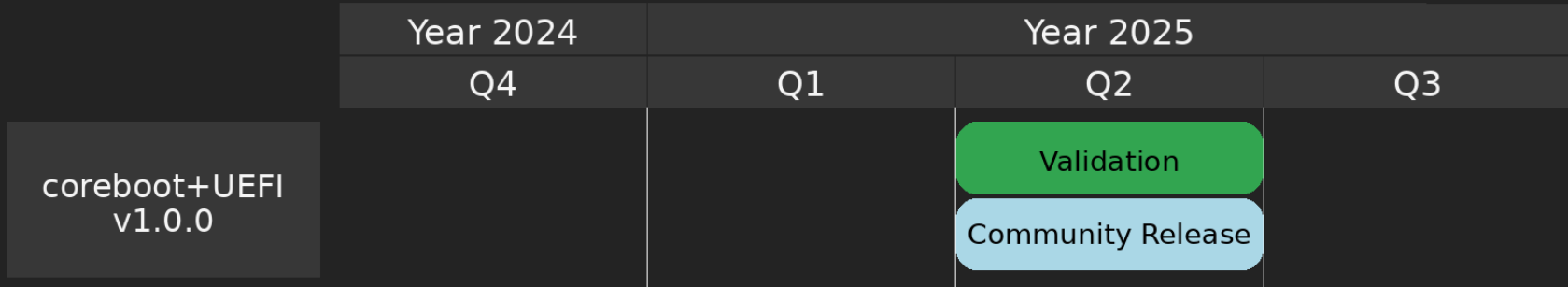
Community Release

Dasharo Community Support Roadmap | March 2025 (v0.9) | CC-BY-SA-4.0

- This year we plan just one release, which would be Dasharo Community Release.
- It will include all recent fixes and modifications most likely rebased on top of recent version of coreboot and EDKII.
- Release will be free and open access to whole community.

Dasharo Desktop MSI PRO Z790-P Roadmap

subject to change

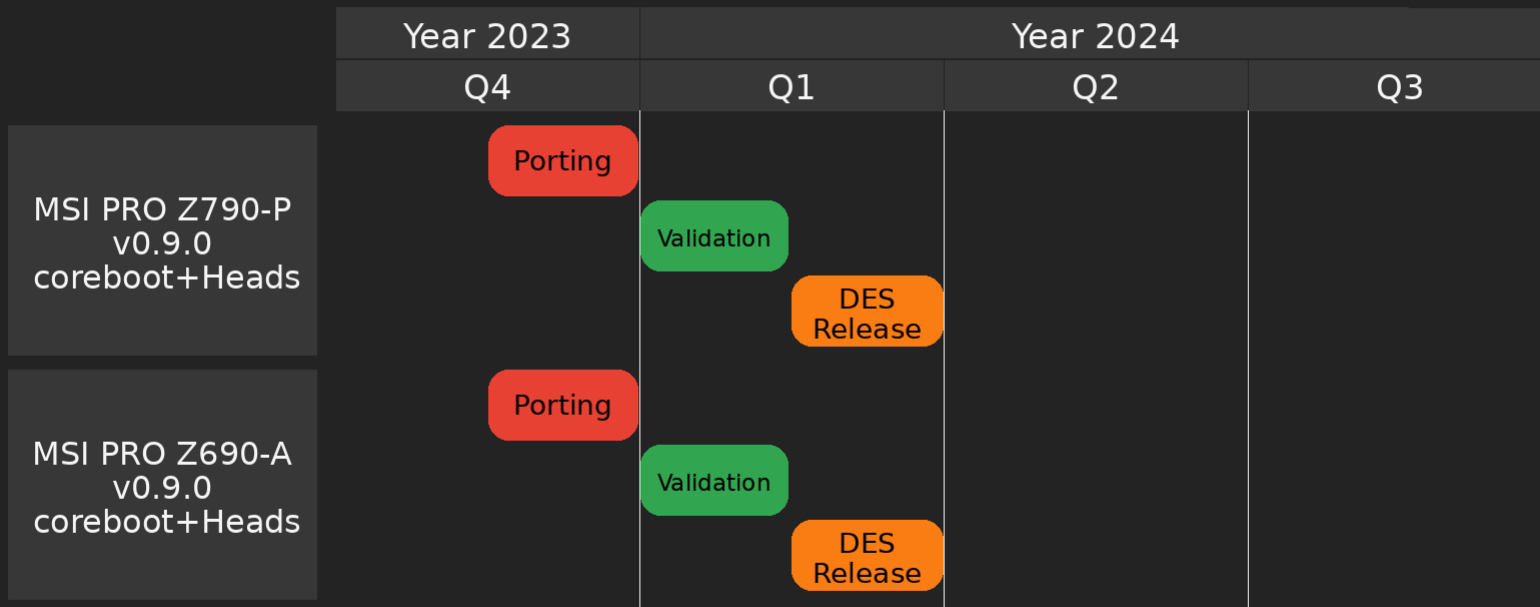


Dasharo Community Support Roadmap | March 2025 (v0.9) | CC-BY-SA-4.0

- The same situation as with Z690-A.

Dasharo Desktop Roadmap

subject to change



Dasharo Community Support Roadmap | September 2024 (v0.7) | CC-BY-SA-4.0

- Unfortunately, we have no new plans.

The image features a dark gray background with light gray circuit-like lines in the corners. These lines consist of straight segments and right-angle turns, ending in small circular nodes. The lines are positioned in the top-left, top-right, and bottom-right corners, creating a sense of a technical or digital environment.

Q&A

The background is a dark gray color. In the corners, there are decorative elements consisting of light gray lines that resemble circuit traces or a network diagram. These lines are connected to small gray circular nodes. The lines are most prominent in the top-left and top-right corners, with some extending towards the bottom corners.

CHANGELOG

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 light gray circuit-like lines in the corners. These lines consist of straight segments and right-angle turns, ending in small circular nodes. The lines are positioned in the top-left, top-right, and bottom-right corners, creating a sense of a digital or technical environment.

Q&A