

2.2 Release Progress

The DPDK 2.2 release remains on track for delivery in late November/early December. The merge window and review period for new patches has just closed, and we're now in the process of applying patches and getting ready to build a first Release Candidate for testing.

A list of the target features can be found on the [roadmap page](#), and a full list of patches submitted to the release can be found in [patchwork](#).

DPDK on ARM

If you've been following the dev@dptk.org mailing list, you'll have seen a lot of activity recently on DPDK support on ARM. For ARMv7 support, patches were submitted by both Intel and RehiveTech. These have now been combined into a single patch set which will be applied for the DPDK 2.2 release. In addition to this, RehiveTech, Cavium Networks and Intel are now collaborating on ARMv8 support.

This is a significant step in broadening the multi-architecture support in DPDK. Now, in addition to x86, Power and Tile-Gx, we'll also have support for ARMv7 and ARMv8 in DPDK.

Successful DPDK Userspace Event

The first ever DPDK Userspace event was held in Dublin on October 8th-9th. The event was a gathering of all of the main DPDK contributors from around the globe, for 2 days of deep technical discussions on the future direction of the project.

Userspace complemented other events in the DPDK Summit series. Details of past and future events can be found on the [DPDK Summit website](#).

Presentations at the event included:

- **Project Growth and Next Steps** by Thomas Monjalon ([Slides](#), [Video](#))
- **DPDK Packet Framework** by Cristian Dumitrescu ([Slides](#), [Video](#))
- **OVS, DPDK and Software Dataplane Acceleration** by Thomas Herbert, Kevin Traynor and Mark Gray ([Slides](#), [Video](#))
- **The 7 Deadly Sins of Packet Processing** by Venky Venkatesan & Bruce Richardson ([Slides](#), [Video](#))
- **Generic Resource Manager** by Andras Kovacs and Laszlo Vadkerti ([Slides](#))
- **DPDK Architecture Musings** by Andy Harvey ([Slides](#), [Video](#))
- **DPDK Integration: A Product's Journey** by Roger Melton ([Slides](#), [Video](#))
- **TRex Traffic Generator** by Hanock Haim ([Slides](#), [Video](#))
- **OpenDataPlane: A Quick Introduction and Overview** by Bill Fiscofer ([Slides](#))
- **Hyperscan Software Pattern Matching** by Mohammad Abdul Awal ([Slides](#), [Video](#))
- **A Symmetric Cryptography Framework for DPDK** by Declan Doherty ([Slides](#), [Video](#))
- **DPDK Performance Lessons Learned in vRouter** by Stephen Hemminger ([Slides](#))
- **Dynamic NFV Deployment with Port Hotplug and Virtio** by Tetsuya Mukawa ([Slides](#))

Useful Links

[Open source website](#)

[Mailing lists](#)

[Documentation](#)

[Roadmap](#)

[Latest stable release \(2.1\)](#)

[DPDK Summit events](#)

DPDK 101

If you're new to DPDK, you should check out the following Intel Network Builders webinars:

[DPDK 101: Introduction to Data Plane Development Kit](#) by Andrew Daignan

[Data Plane Development Kit - Sample Applications and New Features Deep Dive](#) by M Jay



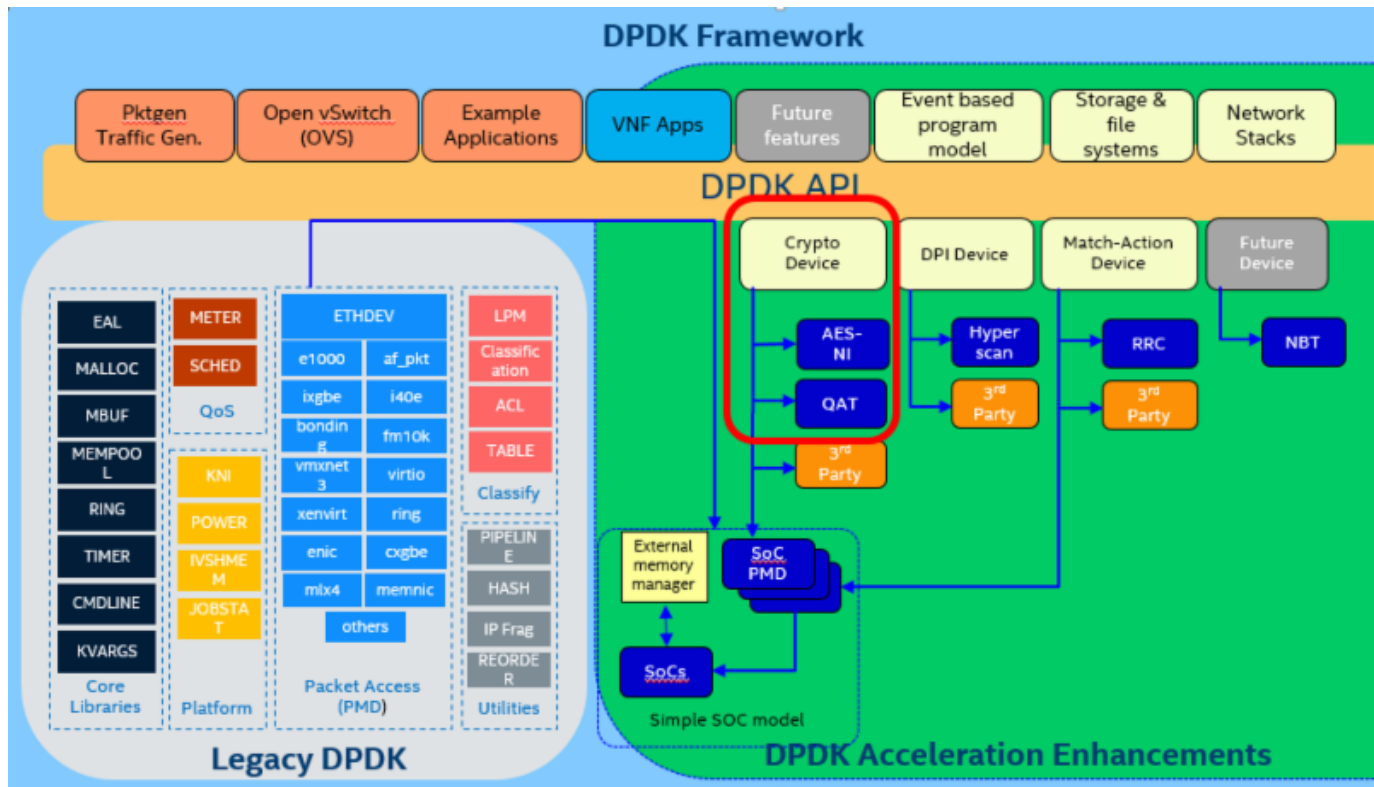
DPDK 2.1 Released

The DPDK 2.1 release was completed in August and is available for download. Full details can be found in the DPDK Release 2.1 section of the Release Notes. Some of the key features that were included in the release are listed below:



- **Increased Multi-Architecture Support:** Chelsio CXGBE driver, Mellanox ConnectX-3 driver, Broadcom BNXPX driver, support for the TILE-Gx architecture.
- **New Hardware Support:** Fortville enhancements (Double VLAN Strip/Insert, Port Mirroring etc.), Red Rock Canyon enhancements (MAC/VLAN Filter, Promiscuous Mode, Jumbo Frame etc.),
- **Functionality Enhancements:** Packet Framework Enhancements, IEEE1588 Timestamping Support, PCI Hot Plug, Extended NIC Stats, VXLAN Offload sample application, Userspace Ethtool, Interrupt Mode, Dynamic Memzones.
- **Performance Improvements:** Cuckoo Hash, Hardware Lock Elision

DPDK Acceleration Enhancements



At the DPDK Summit in San Francisco in August, Keith Wiles introduced the DPDK Acceleration Enhancements (DPDK-AE) architecture that extends DPDK to support additional device types such as crypto accelerators.

The first phase of the implementation has been submitted for the 2.2 release and provides a cryptodev API to support symmetric crypto operations with both hardware acceleration (using Intel QuickAssist Technology DH895xxC) and software acceleration (using Intel's AES-NI multi-buffer library).

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