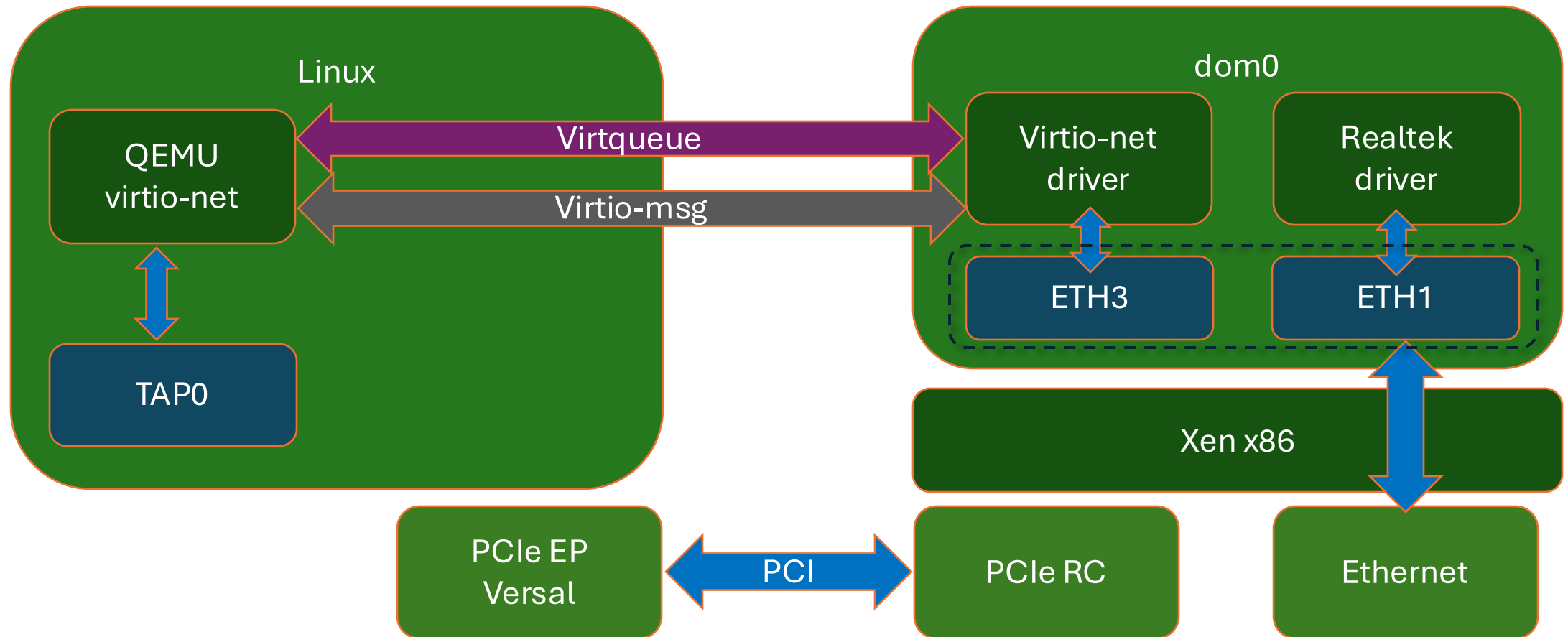


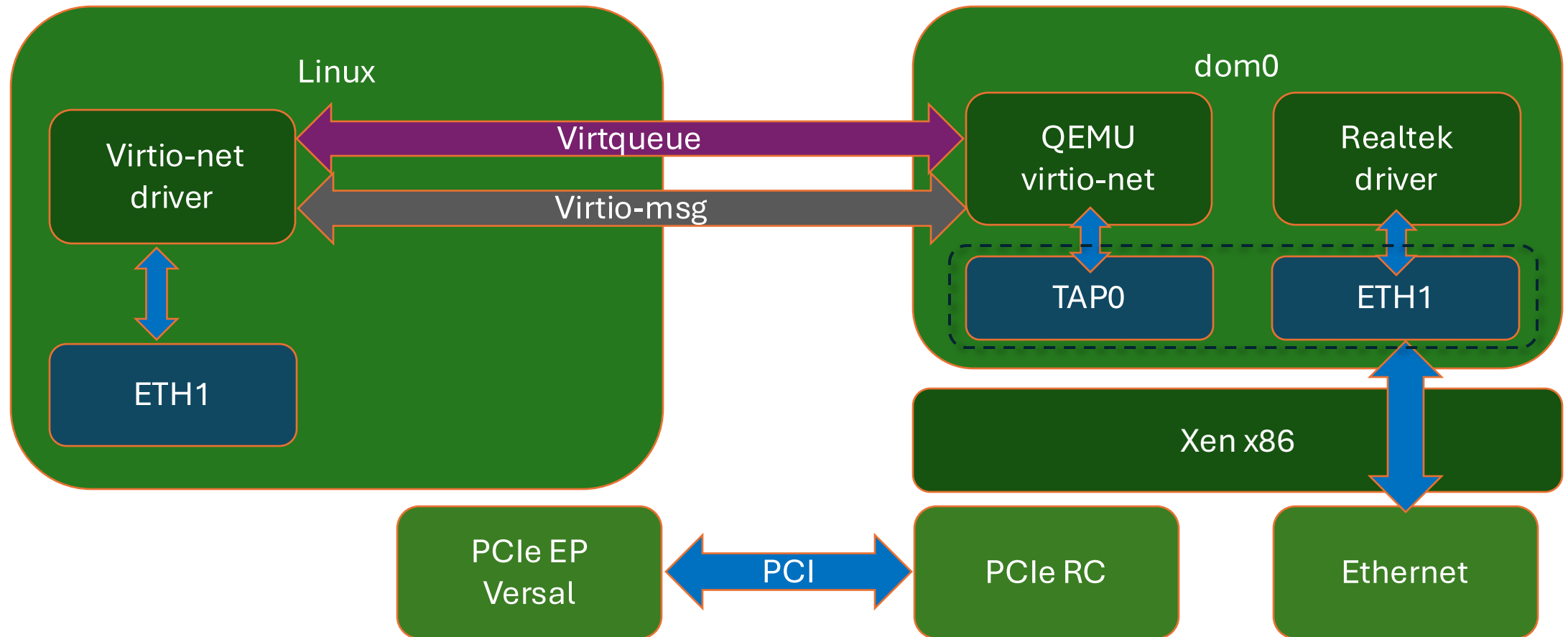
VirtIO-MSG – CES Update

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Virtio-Net over Virtio-msg



Virtio-Net over Virtio-msg (reversed roles)

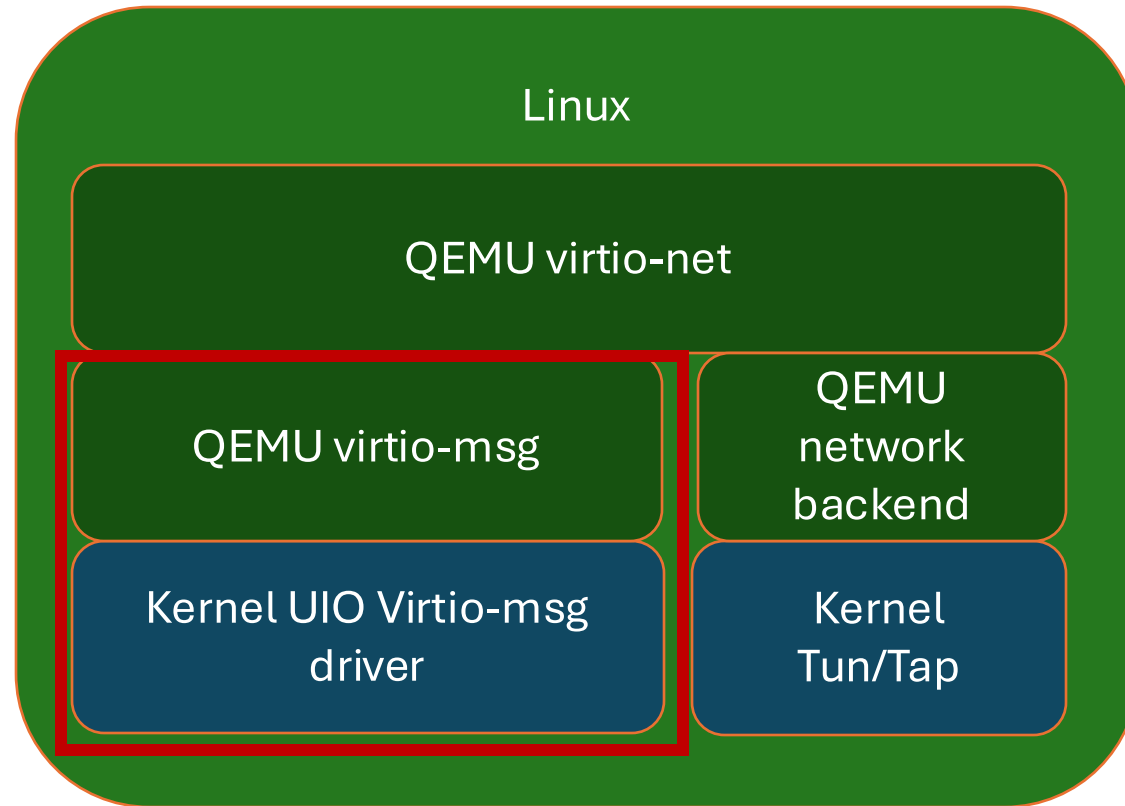


Versal ARM64 SW modules

- BOOT.BIN
 - XSA with Versal design from Brian Wiecek
 - Firmware and U-boot from PetaLinux 2024.1
- Linux
 - PetaLinux 2024.1 with a new User-space IO driver allowing QEMU to DMA and raise MSI onto the x86 host (kernel module)
- RootFS
 - Custom yocto qemu64 xen-image-minimal rootfs
 - Additional scripts for FLR monitoring, launch of QEMU and networking setup
- QEMU
 - QEMU from recent upstream/master with virtio-msg support

Versal SW architecture

New

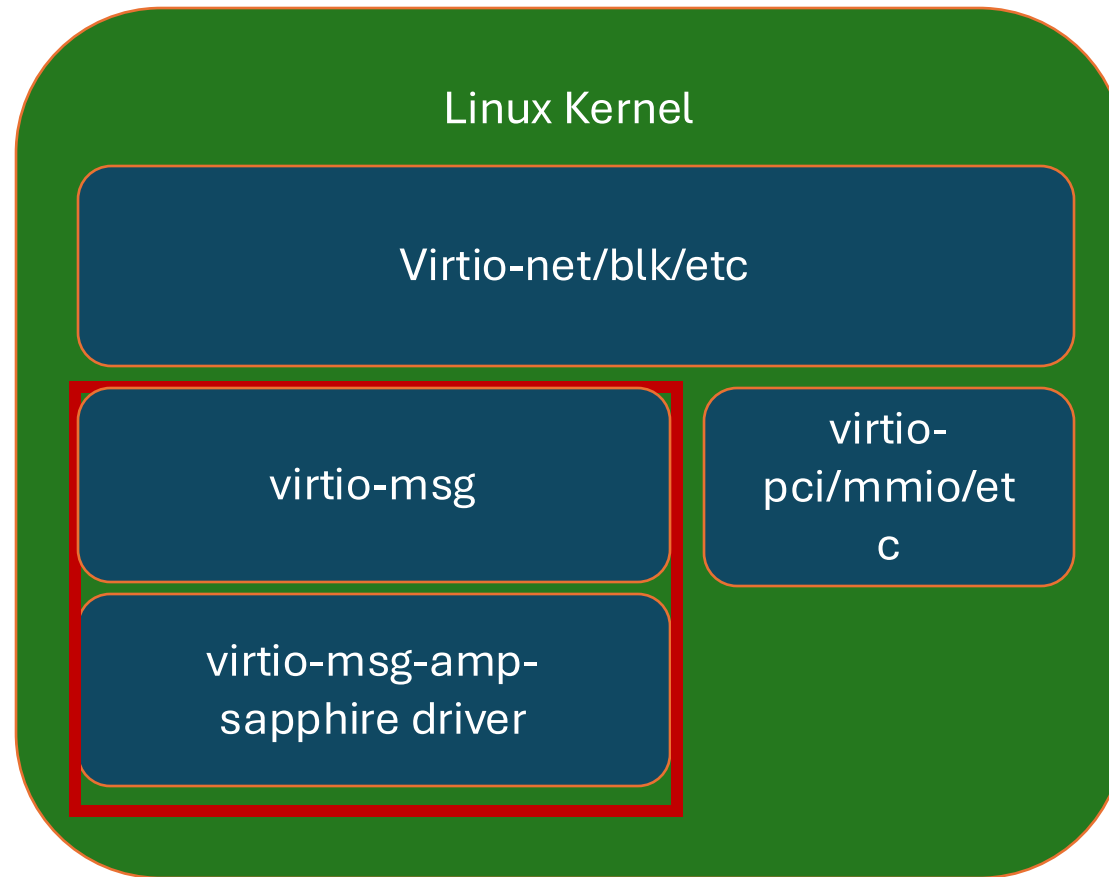


Sapphire x86 SW modules

- Xen
 - 4.20 unstable + Xenias x86 PVH support patches
 - Unmodified 4.20 should work aswell
- Linux
 - Linux 6.11-rc5 + Linaro Virtio-msg support + AMD virtio-msg-sapphire driver
- RootFS
 - Custom yocto x86-64 xen-image-minimal rootfs
 - Additional scripts for virtiot-msg and networking setup
- QEMU
 - QEMU from recent upstream/master with virtio-msg support (Not yet used in this demo but will be needed for virtio-pci proxy or when we reverse the driver/device roles)

Sapphire SW architecture

New



AMD 