

TRUST YOUR SOFTWARE VM COMPOSER SDK

It can be challenging to build a secure system for your virtual machines (VMs) from the ground up.

The seL4® microkernel enables robust security, and its virtual machine monitor (VMM) can be used to host VMs supporting AMP, SMP, or a mix of both on a multi-core processor, enabling richer software architectures using different operating systems.

The **VM Composer SDK** simplifies setup, so you can jumpstart development.

PRODUCT BENEFITS

- Reduces development cycle time
- Simplifies system configuration
- Enables focus on your application instead of the platform
- Minimizes the frontend learning curve of seL4
- Provides solutions to developmental challenges:
 - Repository management
 - Tracking multiple VM configs
 - Identifying components that need to be built for the specified target
 - Configuring seL4 and CAMkES, a development and runtime framework for building systems for microkernels
 - Ensuring consistency between various software components and configuration files

KEY FEATURES

- Graphic User Interface (GUI) and Command Line Interface (CLI)
- System configurability: hardware target, number of VMs, connectivity between VMs, VM scheduling options, optional seL4 I/O services
- VM configuration
 - Execution Environment
 - CPU core, memory, and physical device allocation (i.e. pass-through)
 - Virtual device allocation
 - Software
 - Kernel, configuration, root file system
- Supported hardware targets: Avnet Ultra96, NASA HPSC, Xilinx ZCU102, Raspberry Pi 4
- Supported VM kernels: Linux, FreeRTOS, RTEMS, VxWorks

EMBEDDED VIRTUALIZATION SIMPLIFIED



You shouldn't have to be an expert in every software development tool to configure and build a secure VM solution.

DornerWorks VM Composer SDK is the "easy button" that will help you develop virtualized high-assurance systems faster and more easily.

Schedule a consultation with DornerWorks today, find a trusted foundation for your software, and get back to growing your business.

REVENUE MODEL FOR BUSINESS GROWTH

Unlimited use, 5 year license: Best choice for multi-year project or multiple projects, to be priced at 20x-30x the per-seat annual license.

Per seat annual license: Best choice for single project.

Pay-as-you-go: Software service, hosted on AWS or other cloud platform. Best choice for start-ups and other entities sensitive to cash-flow.

[DornerWorks.com](https://www.dornerworks.com)

| +1.616.245.8369



I am fortunate to work with DornerWorks as a

DORNERWORKS STRONG SYSTEMS SOLUTION PARTNER

supporting our customers across so many disparate system architectures and technical challenges.

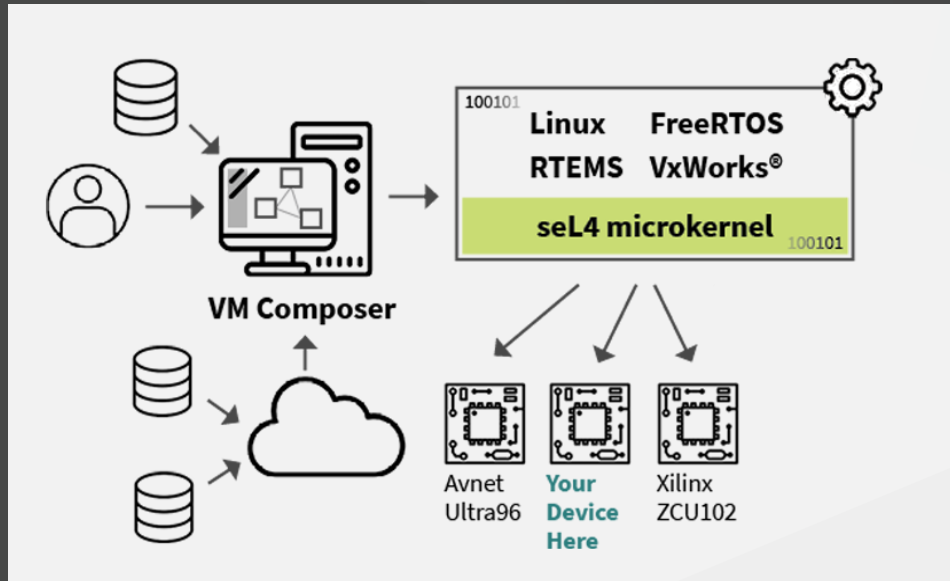


~Senior Project Manager



VMM MODE ON ARMv8

- A DoD customer was interested in using seL4 as a hypervisor to provide robust security and isolation and they wanted to run on the latest ARMv8 platform, due to its performance and feature set.
- DornerWorks ported the existing ARMv7 virtualization support to an ARMv8 implementation, and provided BSP layers for the Xilinx Zynq UltraScale+ MPSoC and the NXP i.MX8 platforms.
- The prototype showed the isolation benefits that the customer required on the platform they needed.



GET THE VM COMPOSER SDK TODAY



Connect with us now. Together we will map out a plan that meets your product goals and helps you grow your business.

SCHEDULE A MEETING

DornerWorks.com | +1.616.245.8369