



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

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

+1.616.245.8369

“

I am fortunate to work with DornerWorks as a



STRONG SYSTEMS SOLUTION PARTNER

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

”

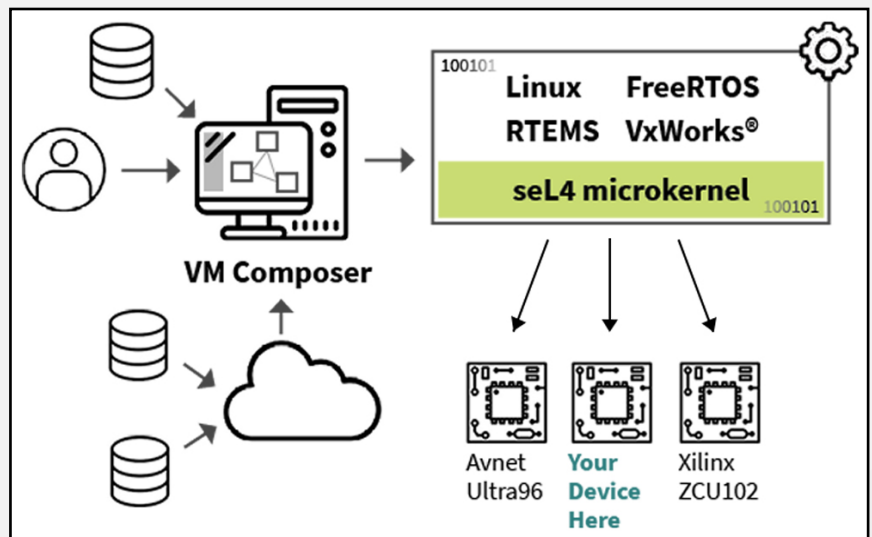
~Senior Project Manager



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.

Accelerate development of your high assurance platforms with DornerWorks VM Composer
SIGN UP FOR THE VM COMPOSER EVALUATION VERSION



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