



HENSOLDT CYBER TRENTOS

TRUSTED ENTITY OPERATING SYSTEM

TRENTOS® is a seL4® based operating system. With the Trusted Entity Operating System HENSOLDT Cyber provides secure IT from the ground up, by building upon the mathematically proved seL4 microkernel and its software ecosystem and trusted open-source components.

Features and Benefits

- Based on mathematical proofs of critical components.
- Modular and isolated components.
- Provides a complete software development kit that equips a developer with all the tools required for building, testing and deploying TRENTOS-based systems to the real world.

TRENTOS SDK

TRENTOS

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The TRENTOS SDK provides a ready-to-use version of the seL4 microkernel and a CAMkES (a framework for component design and implementation) development environment. Furthermore, it comes with various components and libraries that implement well known operating system functions.

Those components can be used in a standard configuration that provides a basic general-purpose operating system with networking, a file system for data storage, a library with cryptographic functions, and platform-specific drivers. Beyond that, the system can be customized and extended, so tailoring to specific needs is possible.



Available Components		SDK Package
Storage Server	Configuration Service	Demos
RAM disk	Key Store	Documentations
Time Server	TLS Module	Build System
File System	Logging Service	Hardware Support
Certificate Parser	Crypto Server	Hardware Emulations
IP Stack		
Ethernet Driver		
Entropy Source		
Supported Architectures		Supported Platforms
ARMv7		Zynq-7000 in QEMU
		Boundary Devices BD-SL-i.MX6
		Boundary Devices Nitrogen6_SoloX
ARMv8		Raspberry Pi 3 Model B+
RISC-V		MiG-V Softcore (on Zynq Ultrascale or ARTIX)
		MiG-V Hardcore
System Requirements		
Linux (tested on Ubuntu 18.04 and 20.04)		8GB of RAM
Docker engine installation (tested on version 20.10)		30GB of storage space

Your Benefit

You can get started working on the worlds most secure microkernel within a couple of hours. The typical user level components are integrated in one operating system, out of the box ready to support your system design and software implementation.

Every TRENTOS Development License comes with full access to the source code – there are no black box components. You will get exhaustive documentation and updates on a regular basis – each update consisting of a fully integrated operating system.



Watch our Video Tutorials

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