

About Perseus



With over a decade pioneering Hypervisor and Hypervisor-based security as Xen ARM open source community project founder (since 2007), Perseus guarantees that the automotive industry's top brands capture opportunities for enhanced security & performance in a connected world.

Our Solutions

PEGASUS

Hypervisor Solution

Reduce SoC HW & SW requirements by up to 75% in connected cars.

AEGIS

Hypervisor-based Security Solution

Secure in-car systems and devices and ensure optimal performance, even under DoS attack.

TACHYON

Linux Fast Boot Solution

Reduce boot speed for Linux powered rear view cameras from ~15 secs to just 2 secs.



Scan QR code
to download digital brochures

We're here to help!
Contact our team today



contact@cyberperseus.com



www.cyberperseus.com



PEGASUS
Hypervisor Solution
for Connected Cars

Reduce SoC HW & SW requirements by **up to 75%**

Partners

RENESAS

GENIVI®

cyberperseus.com

PEGASUS

Hypervisor Solution

* GAIA is ARM R-core boot loader solution

The Background:

Connected cars now carry up to 120 SoCs and software development accounts for up to 70% of new car development cost.

Once autonomous vehicles enter the market SoC requirements are set to increase ten-fold.

The Problem:

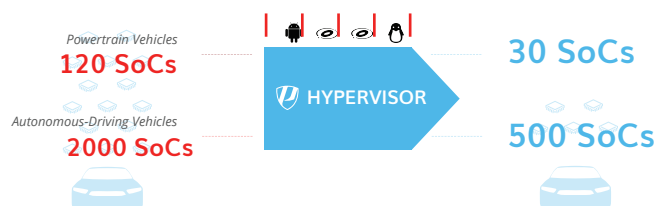
Increased in-car system complexity presents challenges for the automotive industry, including increased development, implementation and system management costs.

More critically, complex systems are more difficult to secure, putting vehicles fleets, the general population and corporate reputations at risk.

Our Solution:

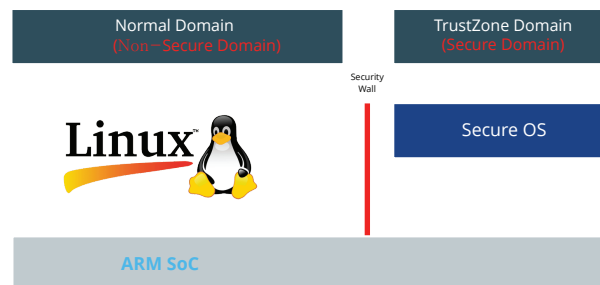
Pegasus helps OEMs, T1s and T2s reduce SoC HW & SW requirements by up to 75% on average, improving efficiencies in software development, implementation and management, including OTA maintenance.

* GAIA (system boot loader) can be provided on demand.



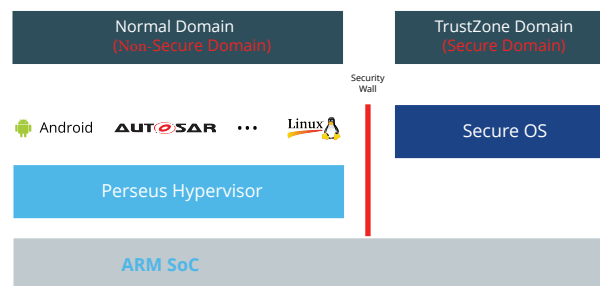
How It Works

Without Perseus Hypervisor



Off the shelf ARM hardware only allows one operating system to run off each SoC.

With Perseus Hypervisor (PEGASUS)



Perseus enabled SoCs can run multiple operating systems, reducing in-car complexity as well as development and management cost.



Technical Specifications

- Boot up speed: 10 ms
- CPU overhead: less than 3%
- Memory footprint: 1 MB
- SoC support: ARM A-core, R-core
- OS support: Linux, Autosar, RTOS, Android, etc
- IO Device model: pass-through, splitted, VirtIO, etc.

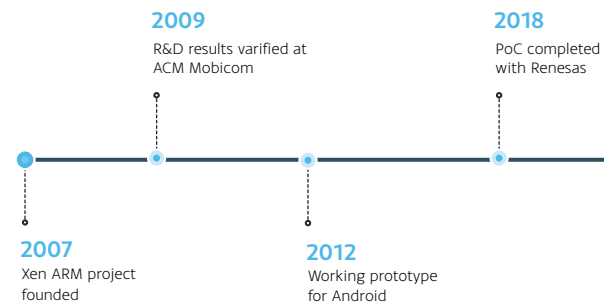
PEGASUS - Key Benefits

- ✓ Run multiple operating systems from a single SoC
- ✓ Greatly enhance in-car HW and SW efficiency (by up to 75%)
- ✓ Improve ease of in-car system management and maintenance, including OTA (over-the-air) updates

Full compatibility with existing infrastructure means that Perseus enables automotive players to maintain efficient relationships with existing partners and utilize existing in-house engineering resources.

- HW Compatibility:  etc
- SW Compatibility:  etc

A History of Leadership in Hypervisor



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