

# Secure OS and Hypervisor - TEE for MIPS

IoT Security and Virtualization



# Sierraware

Leading provider of integrated hypervisor and TEE

- Delivered as source code. Flexible and easy to customize
- Unified TEE and Hypervisor implementation.
- Adheres to Global Platform specifications
- Products
  - Residential gateways
  - Set-top boxes,
  - TVs
  - Mobile phones
  - Automotive and avionics
  - Industrial control

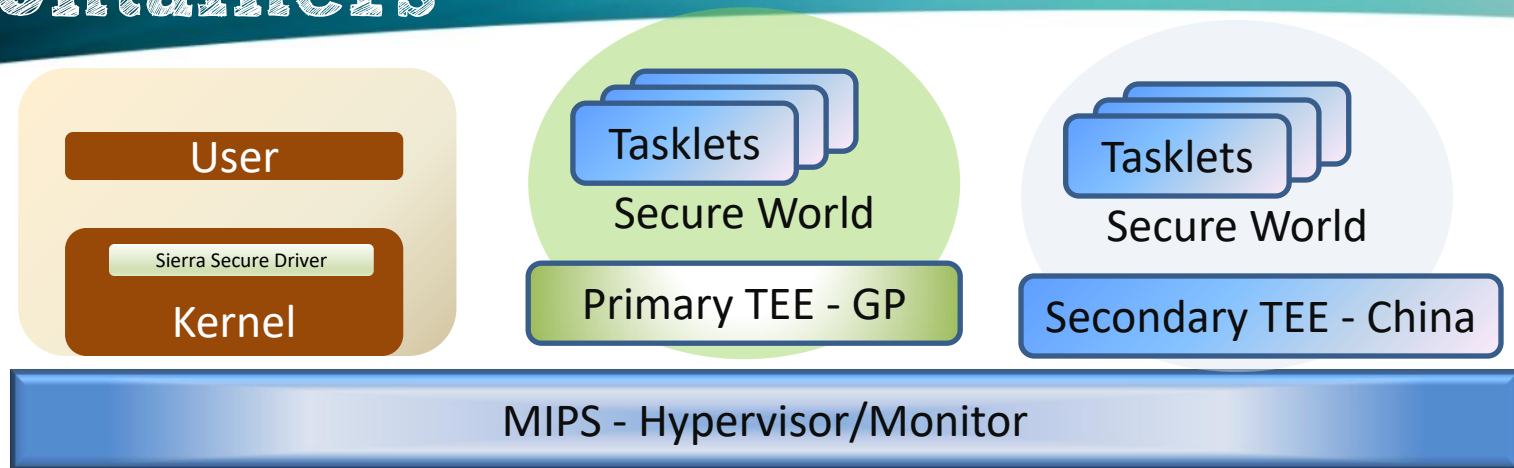
**MIPS**  
by Imagination

**ARM**



**sierraware**

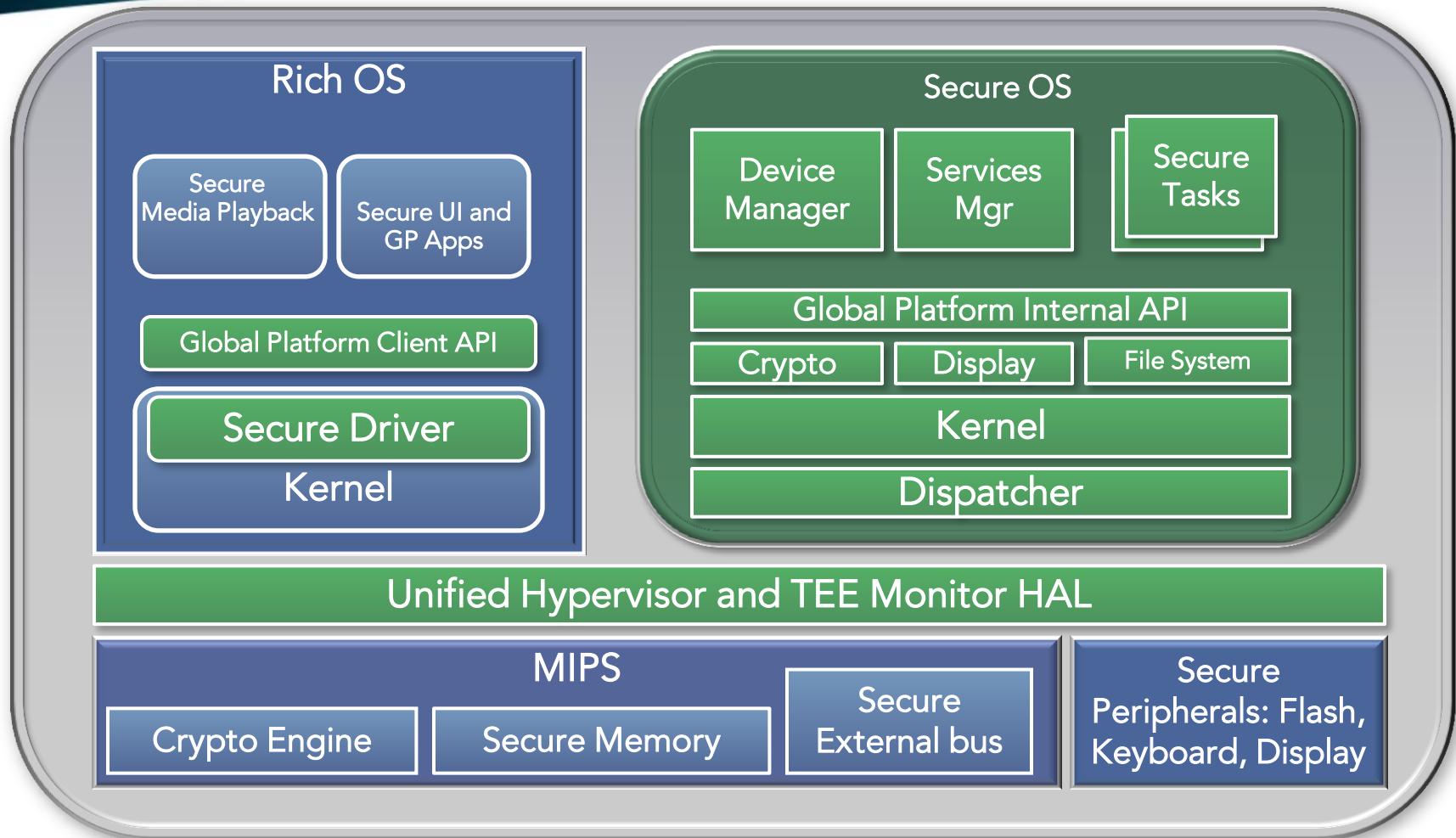
# Easy to deploy Isolated TEE Containers



## Only solution with Virtualized Multi-TEE

- Ability to launch secondary TEE on demand
- Hybrid TEE architecture. Each TEE SecureOS can be built on different API
- Easy to deploy across geographical regions
- POSIX APIs for Integrating with DRM like Google Widevine, Microsoft Playready
- Fully compliant Global Platform APIs

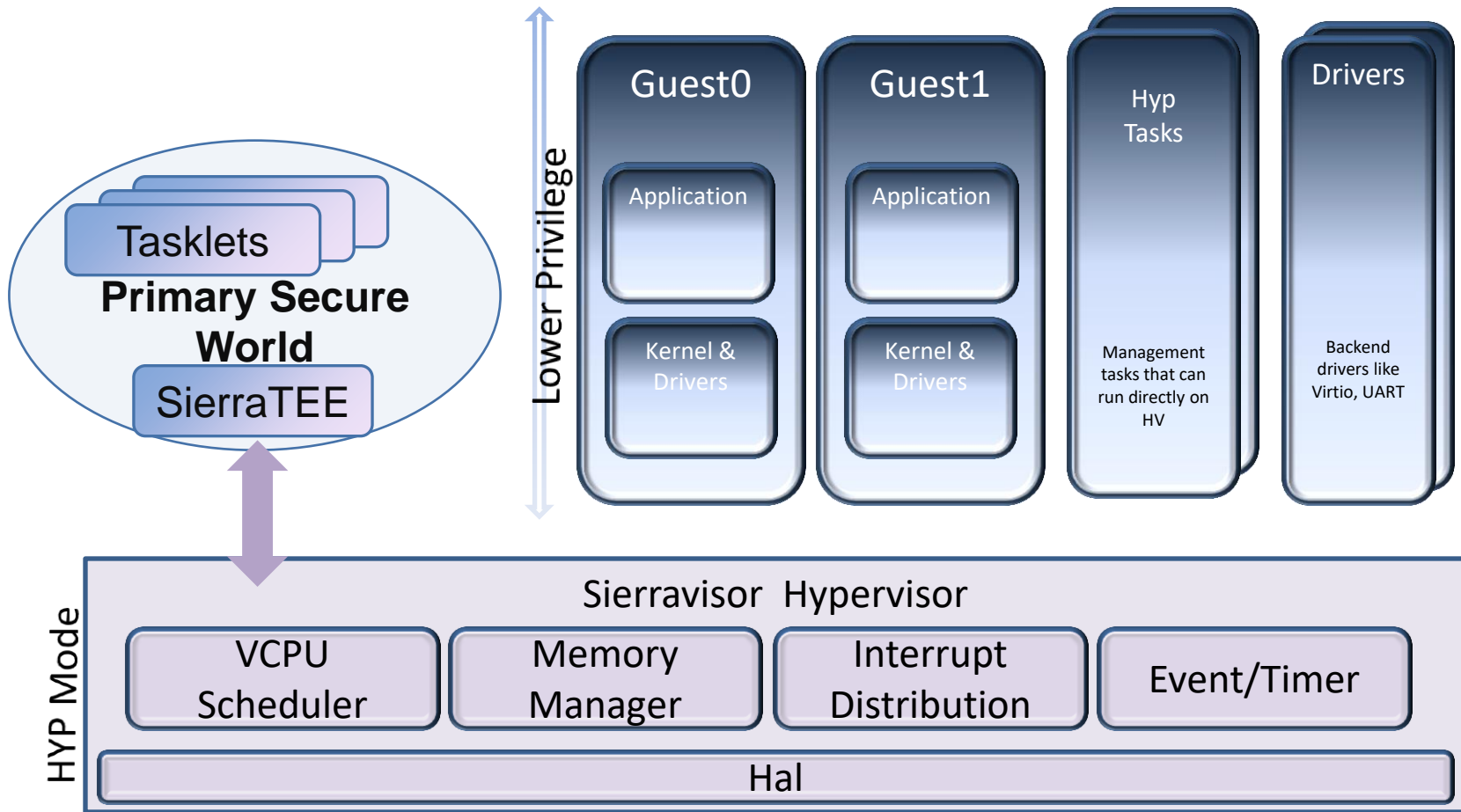
# SierraTEE: Virtualized Environment



# SierraTEE universal solution.

- Simple and Elegant solution to solve Multi-TEE and TEE Containerization requirements.
- Available on all platforms.
  - ARM using Trustzone Monitor
  - MIPS using Virtualization
- Identical source code across all architectures
- GP API Trustlets will work across all platforms with no change in code.

# Virtualized TEE



# TEE Containers.

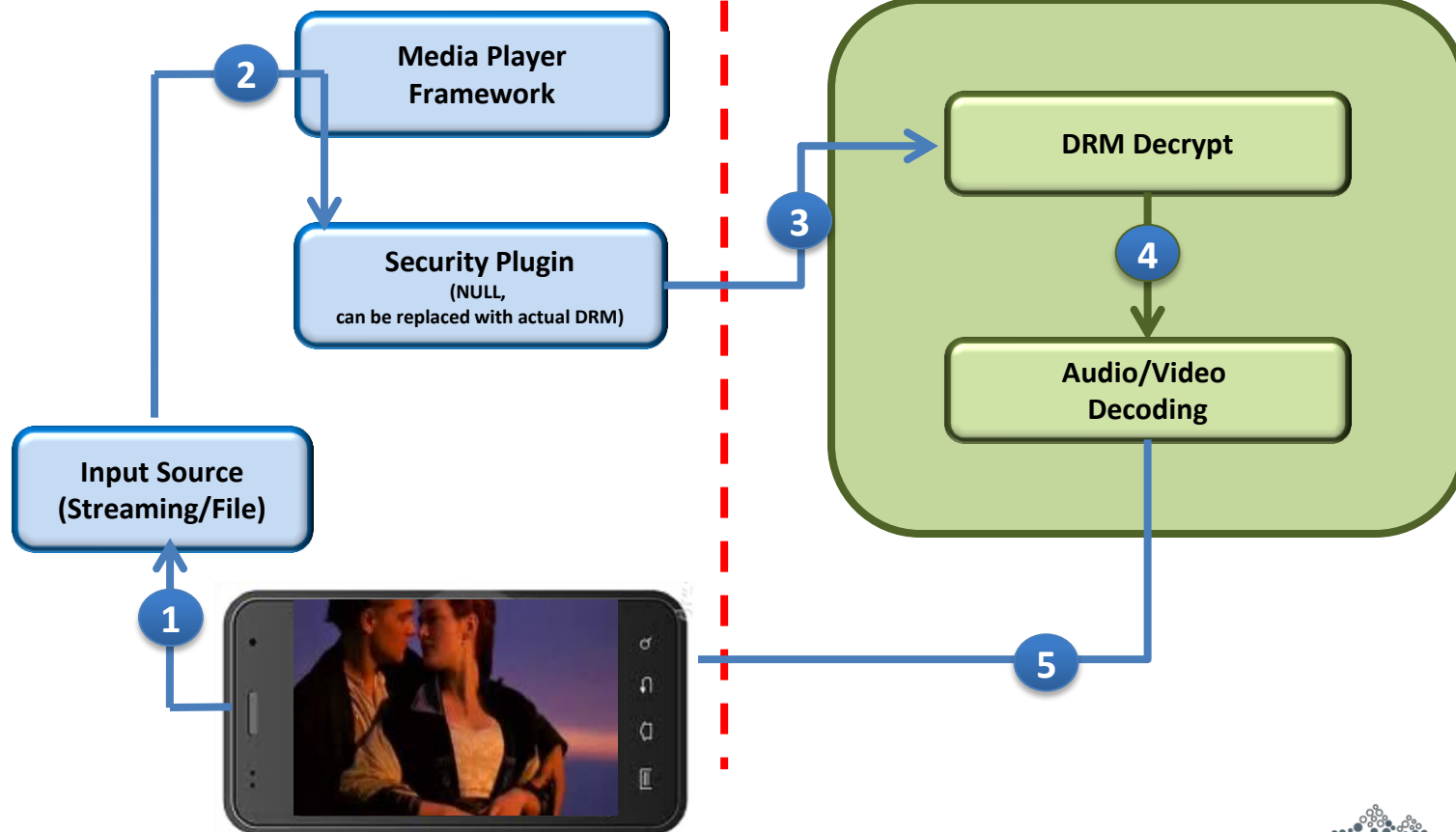
- Satisfy Service provider compliance with multi-tee solution.
- Easy to deploy across geographical location.
- Primary TEE and Secondary TEE can have different API
  - Example: GP on Primary TEE and China Pay on Secondary TEE



# DRM Media Playback

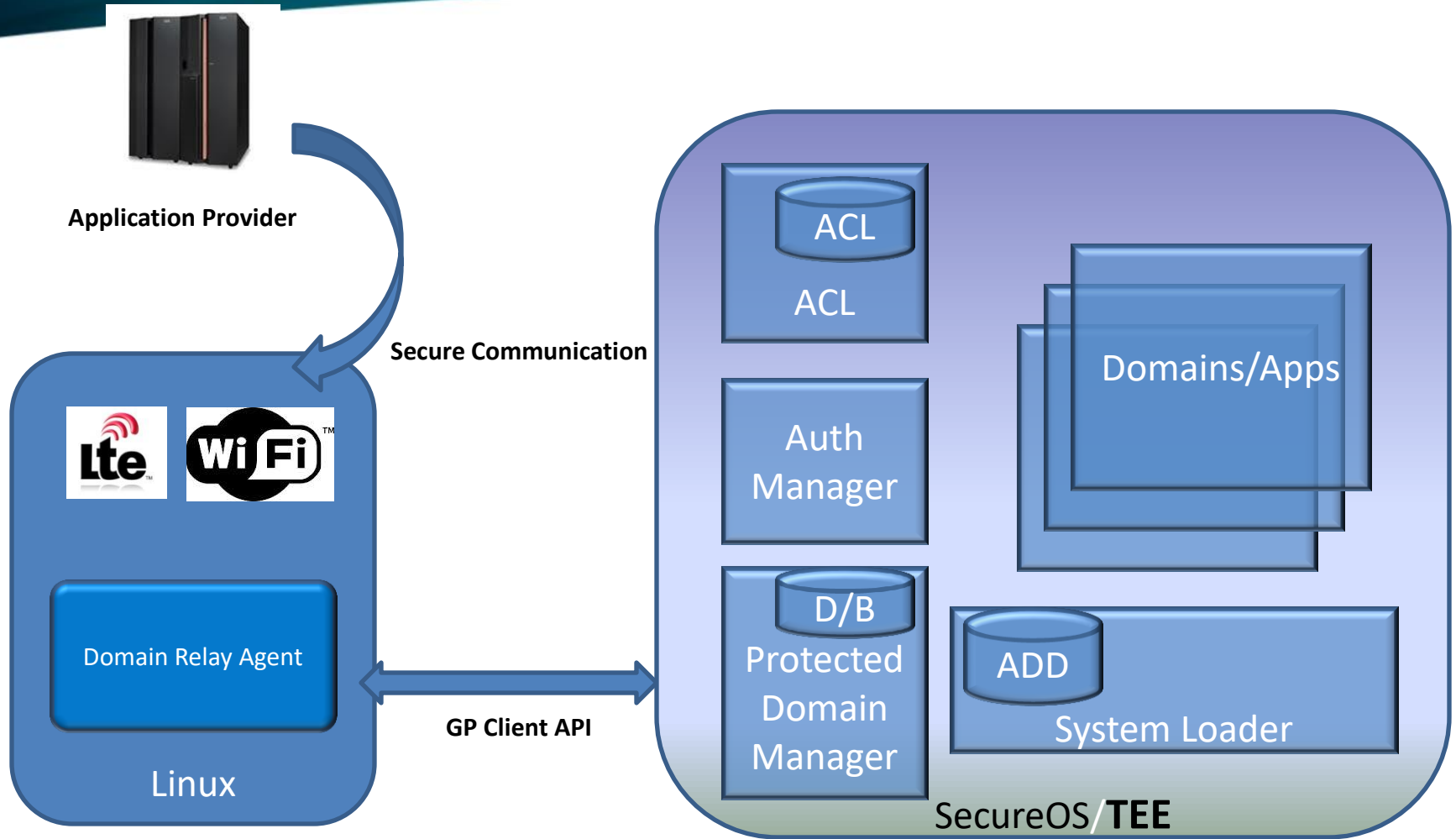
Normal World

Secure World





# IoT Management Solution



# Professional Services

## Custom Services

- Porting software to processors
- Integrating TEE and SierraVisor with applications
- Developing drivers, encoders or apps

## Design Expertise

- Extensive experience with processors and kernel code
- Android, Linux, BSD, and VxWorks development
- Hardware & FPGA

## Project Management

- Phased approach from planning and development to testing & certification
- Carefully defined schedules and communication with customers to avoid surprises & delays

# Technical Support

- Telephone and Email Support
- Online technical documentation
- Software updates for commercial products
- Previews of upcoming releases
- Ability to influence feature enhancements
- Commitment to Quality
  - Service Level Agreement (SLA) details support response times and escalation levels

# Thank You!

[sales@sierraware.com](mailto:sales@sierraware.com)

1-408-337-6400

