

## dot11Core

### Device Support Software Suite

The AVS **dot11Core** Device Support Software Suite is a complete IEEE 802.11 support software collection. **dot11Core** is a 100% software source code product including one or more low-level chipset specific hardware abstraction layers, the AVS device-independent IEEE 802.11 layer, and several user-mode applications.

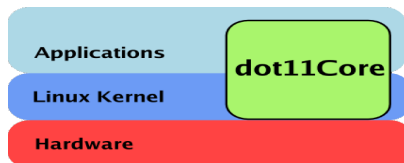


Figure 1: dot11Core System Overview

The **dot11Core** software is a proven solution shown to be portable across all Linux-supported CPU architectures, independent of endianness and data alignment sensitivities. **dot11Core** is currently being used on all major CPU architectures including x86, PowerPC, ARM, MIPS, and XScale.

The **dot11Core** product is delivered in 100% source code form. The source codebase includes a configuration and build system that provides: option configurability, cross-toolchain support, kernel detection, and alternate/crossbuild installation destinations.

The **dot11Core** source code is designed, coded, and delivered as an approachable codebase. All of the **dot11Core** source code is Linux native with no source code that has been program-generated or ported from a different operating system.

**dot11Core** provides a stable, mature, 100% source code base that can quickly and reliably add advanced 802.11 network features to any Linux-based product design.

### Features:

- 802.11 a/b/g Support
- Multi-Radio System Support
- 100% Source Code
- Linux Native
- CPU Portable
- Easily Integrated Build System
- Comprehensive Encryption Support
- Authenticator and Supplicant
- Local and Remote Authentication
- RADIUS Accounting
- Commercially Supported and Licensed
- Supported by the Original Authors
- Multiple Operational Modes:
  - \* 802.11 Access Point
  - \* 802.11 Client Station
  - \* 802.11 IBSS (Adhoc)
  - \* AVS AP-peered Repeating WDS
  - \* AVS AP-peered Adhoc WDS
  - \* AVS WDS Station Bridge
  - \* 802.11 Frame Capture
- Host Interfaces Supported:
  - \* PCMCIA/CompactFlash
  - \* Cardbus/PCI/mini-PCI
  - \* USB/USB2
  - \* 16-bit slave, custom slave

### Applications:

- Enterprise Access Point
- SOHO Access Point
- Hot Spot Access Point
- Residential Gateway
- Multimedia Client and Server Devices
- Device Server (e.g. Print Server)
- Outdoor Mesh or Repeater Node (P2P or P2MP)
- Outdoor Mobile Node
- Voice Client and Server Devices
- Set Top Box

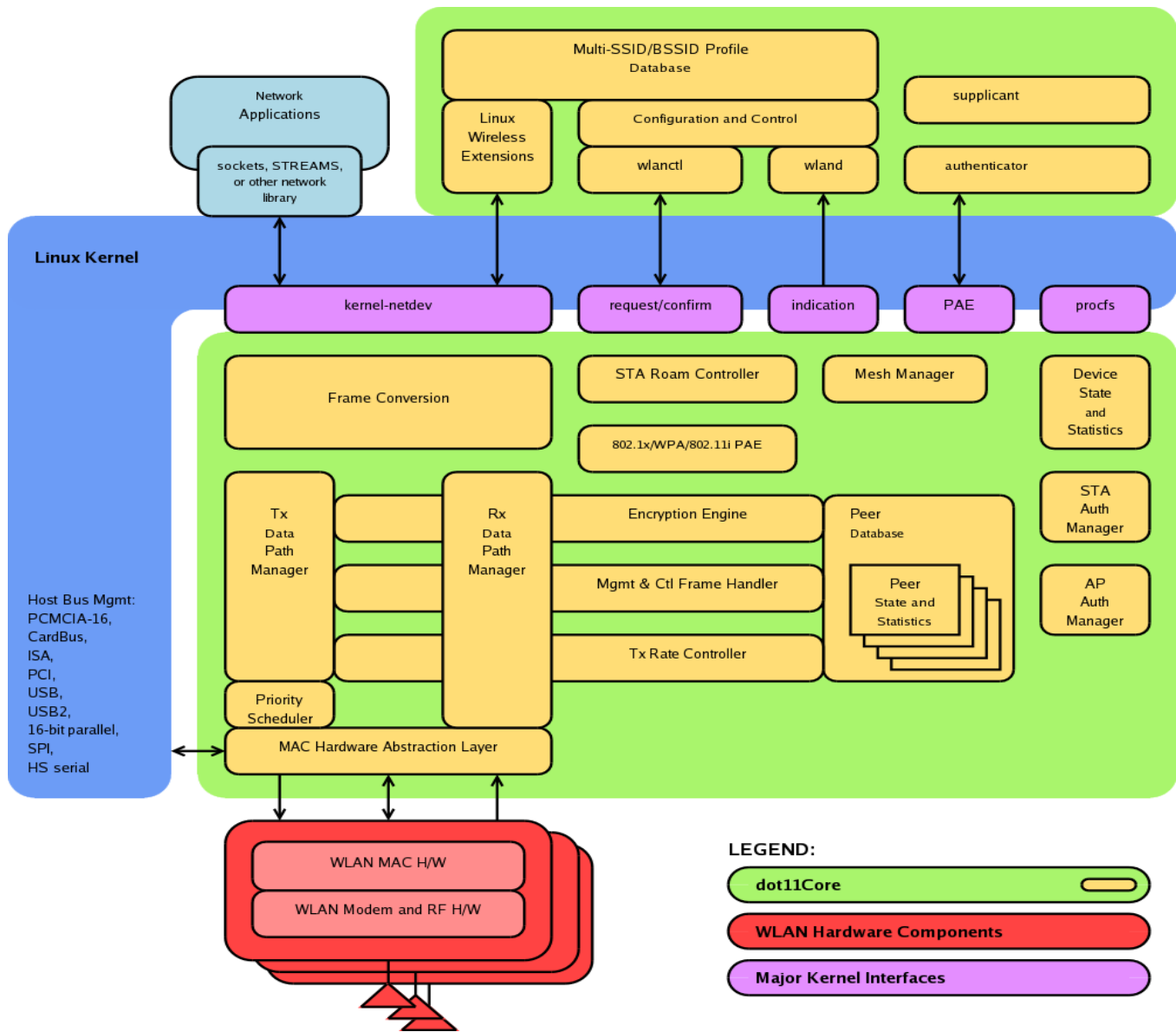


Figure 2: dot11Core Block Diagram

## ABOUT AVS

Since 1996, AbsoluteValue Systems (AVS) has been providing products and services for embedded Linux and wireless network applications. AVS's principle products are the **dot11Linux** complete embedded system solution and the **dot11Core** 802.11 device support software suite. AVS also supplies software development services and consulting services for wireless system design, development, and deployment.

*"AVS: where Linux, Wireless, and Embedded Systems meet"*

## CONTACT

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