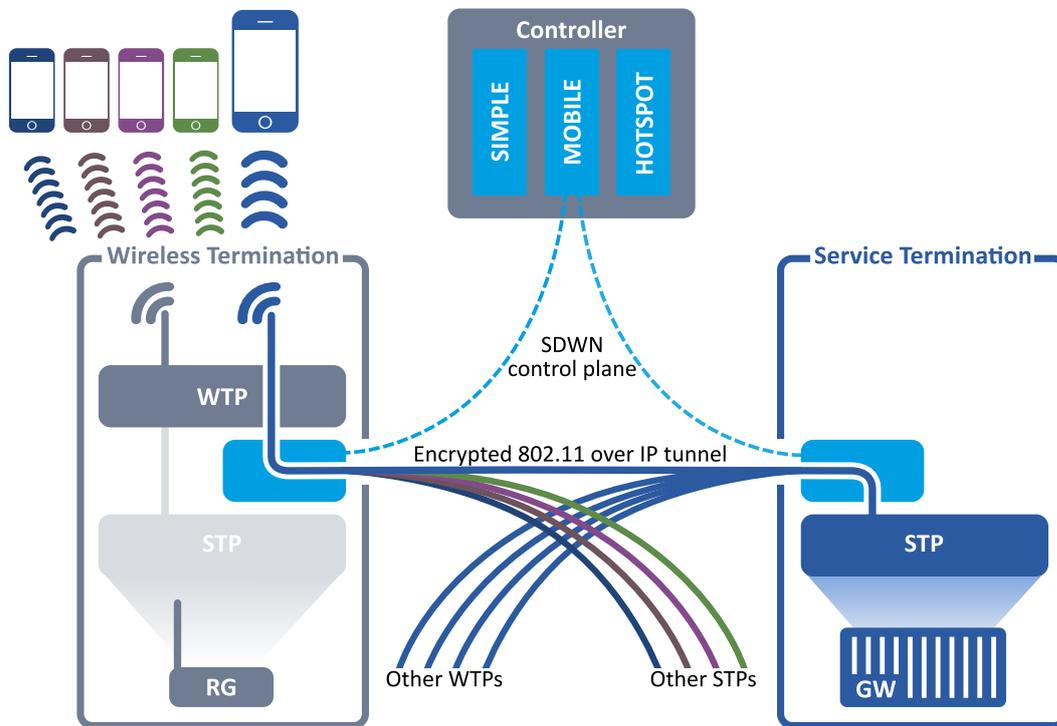


ANYFI CONTROLLER

DATASHEET



KEY BENEFITS

- Centralized service definition and QoS control for unmatched network agility.
- Interoperable with all third party hardware incorporating Anyfi.net software.
- Based on the tried and tested Vyatta Network OS with a well-documented and intuitive CLI.

KEY PERFORMANCE METRICS

- Manage millions of virtual Wi-Fi networks and access points from a single controller.

RELATED SOLUTIONS

- Home Wi-Fi anywhere with SIMPLE
- Secure Wi-Fi offload with MOBILE
- Hotspots & homespots with HOTSPOT

LICENSING OPTIONS

- Free community & evaluation license
- One-time or recurring commercial licenses
- Brocade Vyatta vRouter or Vyatta Core

The Controller communicates with Wi-Fi access point radios and service termination points through a lightweight DTLS/UDP/IP based control plane protocol, and connects them on demand to form complete IEEE 802.11 stacks. Which radio and service is connected is determined by SDWN Apps running on the Controller.

OVERVIEW

SDWN partitions the IEEE 802.11 stack into three parts: a low-level radio portion that runs on the access point and handles the real-time aspects of the Wi-Fi protocol, a high-level portion that terminates the IEEE 802.11 protocol itself and the Controller that connects the previous two through IEEE 802.11 over DTLS/UDP/IP data plane tunnels.

By selecting which SDWN Apps to run on the Controller and how to configure them the service provider is in complete control over the end-subscriber's user experience. Provide a traditional hotspot or homespot service, a SIM-authenticated mobile offload service or remote access to your subscriber's favorite Wi-Fi networks, all on a single platform.

SIMPLE – HOME WI-FI ANYWHERE

The SIMPLE application simply connects mobile devices to the Wi-Fi networks with which they have previously authenticated. The result is the familiar home Wi-Fi user experience on the go.

With SIMPLE there is no registration process for the end-user, no software to install, not even any settings to change — it just works!

ANYFI CONTROLLER

DATASHEET

NORTHBOUND INTERFACES

- Vyatta CLI
- SNMP v2c
- SYSLOG

SOUTHBOUND INTERFACES

- SDWN control plane (DTLS/UDP/IP)

CONFIGURABILITY

- Fully programmable with SDWN Apps
- Radio, service and client groups
- Group filters enabling full multitenancy
- Advanced link-level radio policy control
- Vyatta CLI for general configuration

APPLICATION OPTIONS

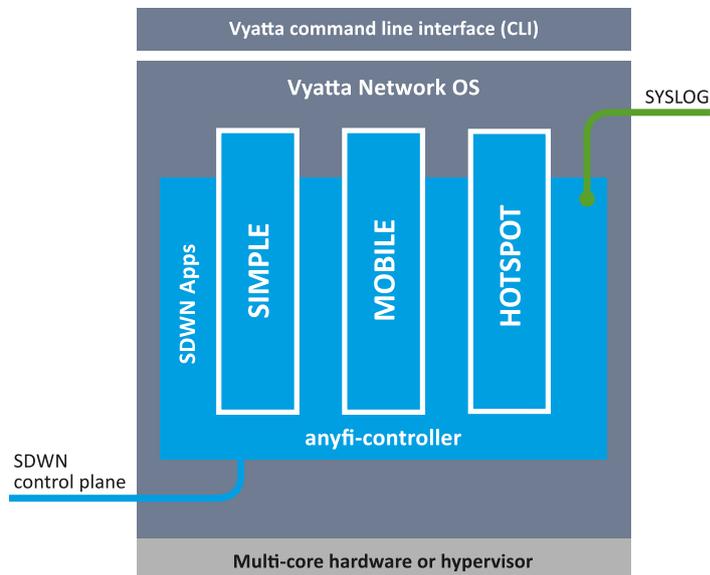
- SDWN App SIMPLE
- SDWN App MOBILE
- SDWN App HOTSPOT

HARDWARE OPTIONS

- VMware, Xen, XenServer and Red Hat KVM hypervisors
- Bare metal x86 hardware

LICENSING OPTIONS

- Free community & evaluation license
- One-time or recurring commercial licenses
- Brocade Vyatta vRouter or Vyatta Core



Internal architecture of the Controller: Separate SDWN applications run in a common framework, processing requests coming in on the control plane and sending out instructions to radios and service termination points.

MOBILE – SECURE WI-FI OFFLOAD WITH QoS CONTROL

The MOBILE application connects mobile devices to a SDWN Gateway in the mobile core, where they can be authenticated using the SIM card. Radio policy control ensures that devices are only offloaded to Wi-Fi when that bearer can provide high quality of service. The result is a high-quality user experience with end-to-end security and full mobility.

HOTSPOT – HOTSPOTS & HOMESPOTS WITH QoS CONTROL

The HOTSPOT application lets operators migrate existing hotspot and homespot deployments to a unified SDWN architecture with quality of service control. Devices can be authenticated using the traditional captive portal mechanism, or with IEEE 802.1X and Extensible Authentication Protocol (EAP).

About Anyfi Networks

Anyfi Networks is the company behind the revolutionary Software Defined Wireless Networking (SDWN) architecture. Based on this unique technology we offer broadband operators, fixed as well as mobile, a range of carrier Wi-Fi software solutions: from traditional hotspots and homespots all the way to massively scalable secure mobile Wi-Fi offload. For more information please visit www.anyfinetworks.com or contact sales@anyfinetworks.com.

Copyright © 2013-2015 Anyfi Networks AB