

Mojo Multiservice Platform

Key Features

- Traffic aggregation using EoGRE tunnels
- Broadcast/Multicast control & optimization
- IGMP snooping
- Automatic tunnel learning
- Extended network Interface Configuration (ENIC)
- High availability configuration
- Auto VLAN Learning
- Link aggregation for tunnel interfaces
- DHCP server

MP2100



MP4100

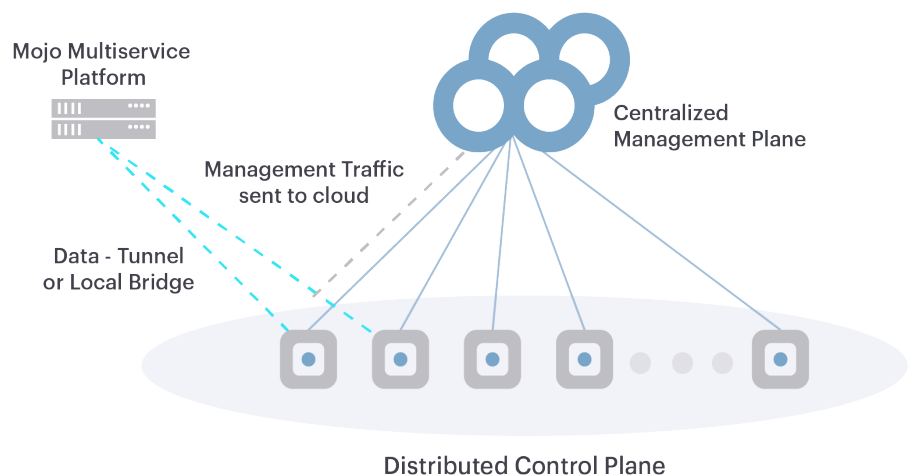


The Mojo Multiservice Platform extends client VLANs all the way to Mojo access points across routing domains using Layer-2 EoGRE tunnels. Enterprise deployments using the legacy controller architecture usually tunnel all client VLAN traffic from the access points to the controller because the client VLANs are not available on the wired ports of the access points. The Mojo Multiservice Platform allows Mojo access points to seamlessly integrate in such deployments.

A Mojo AP creates a tunnel between itself and the Mojo Multiservice Platform and ensures that the edge and core switches are transparent to the VLAN configurations. A tunnel supports multiple VLANs behind the AP. Defined tunnel interfaces can be combined using link aggregation to increase overall throughput. The Mojo Multiservice Platform transparently switches the traffic among tunnels and trunk ports, through dynamic learning and forwarding. Trunk port connectivity is on to the wired side

of upstream, where traffic would flow transparently without a tunnel. Mojo Multiservice Platform has the intelligence to learn the EoGRE tunnel information originating from an AP and dynamically establishes the GRE tunnel with the AP. The AP injects Ethernet traffic of multiple VLANs into the same tunnel and the Ethernet frames carry VLAN tag (802.1q) and aggregator then switches packets to the correct VLAN (downstream to other tunnels and to the upstream switch).

Mojo Multiservice Platform includes Dynamic Host Configuration Protocol (DHCP) server designed to automatically assign IP addresses based upon a configured range. Mojo Multiservice Platform has several traffic optimizations like broadcast/ multicast control to prevent unnecessary flooding of packets across the network and IGMP snooping to allow IGMP only when there is a client which needs that multicast stream. The Mojo Multiservice Platform is QoS aware. For manageability of the platform,



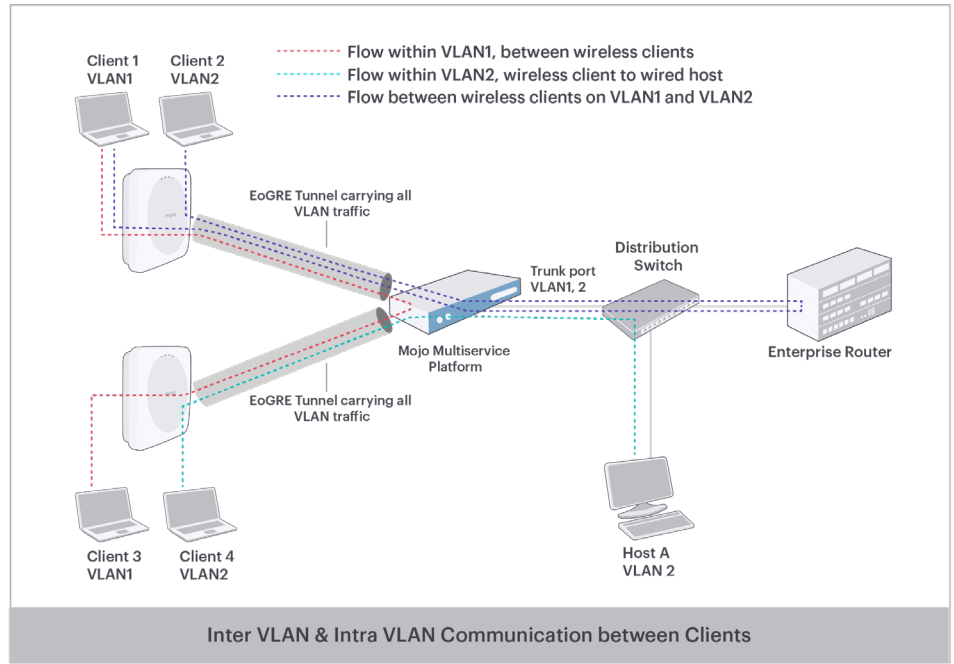
configurations can be easily saved and restored in addition to a High Availability (HA) mode of deployment.

High-Level Architecture

Mojo Multiservice Platform creates an alternative data plane. Data can be locally branched out or it can be tunneled to the traffic aggregator. The choice depends on the deployment use case.

Communication Topologies Supported

Communication is possible between wireless clients belonging to the same VLAN, wired and wireless clients on the same VLAN or clients belonging to different VLANs.



Intra-VLAN

A sample configuration and traffic flow within the same VLAN between two wireless clients and that between a wireless client and wired client using the Mojo Multiservice Platform is shown in the figure. The Mojo Multiservice Platform bridges traffic belonging to the same VLAN.

Inter-VLAN

A sample configuration and traffic flow between wireless clients on different VLANs using the Mojo Multiservice Platform, a distributed switch and an enterprise router is shown in the figure. An upstream Layer 3 device routes the inter-VLAN traffic across VLANs.

Product Specifications

Specifications	MP2100	MP4100
Product Type	Mojo Multiservice Platform	Mojo Multiservice Platform
Use-Case	Small campus, Remote branch	Medium campus, Remote branch
Form Factor	1U rack	1U rack
Max Number of Supported Tunnels	1,000	10,000
Max Number of Supported Client MAC	100 K	1 Million
Throughput	4 Gbps	20 Gbps

Tunnel Interface	4x1 Gbps	2x10 Gbps
Management Interface	1x1 Gbps	1x1 Gbps
Power Supply	250W cabled PSU	2 x 550W PSU
Mounting	ReadyRails™ static rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded and 2-post racks.	ReadyRails™ II sliding rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded hole racks, with support for optional tool-less cable management arm.
Processor	Intel® Xeon® processor E3-1280 v5	Intel® Xeon® processor E5-2660 v5
Memory (RAM)	16 GB	32 GB
Hard Disk	1 TB	1 TB + 1 TB

About Mojo Networks, Inc.

Mojo Networks is redefining the modern WiFi platform. Imagine the scalability to set up millions of access points with a few clicks, all from your smartphone. Envision an Internet experience that engages users with your business to drive results. Stay secure on the same WiFi cloud powering Fortune 500s, Global 2000s and the highest levels of government. And enjoy the cost savings of a cloud-first solution without the pricey markup of proprietary hardware. Welcome to the era of prolific connectivity. Founded in 2003, Mojo Networks (formerly known as AirTight Networks), serves customers in the Fortune 500, Global 2000 and large carriers around the world. Set up a free trial of Mojo Networks today at www.mojonetworks.com.