

unifiTM

Overview

What is unifi?

The Genesis of unifi

The Architecture

Welcome to

unifi™

Unifi is a next-generation Controls Platform engineered to deliver a superior controls experience to any property. As the Lighting Industry's first and only Cloud Platform Unifi creates unprecedented value through instantaneous commissioning, simplified usability and frictionless change management.

With Unifi any property owner can capture the significant energy savings achievable through the optimal usage of their lighting assets. Whether installed throughout a multi-site property portfolio or within a 1000 square foot retail shop, Unifi is the only Controls solution capable of scaling up or down to serve each property owners unique Controls requirements.

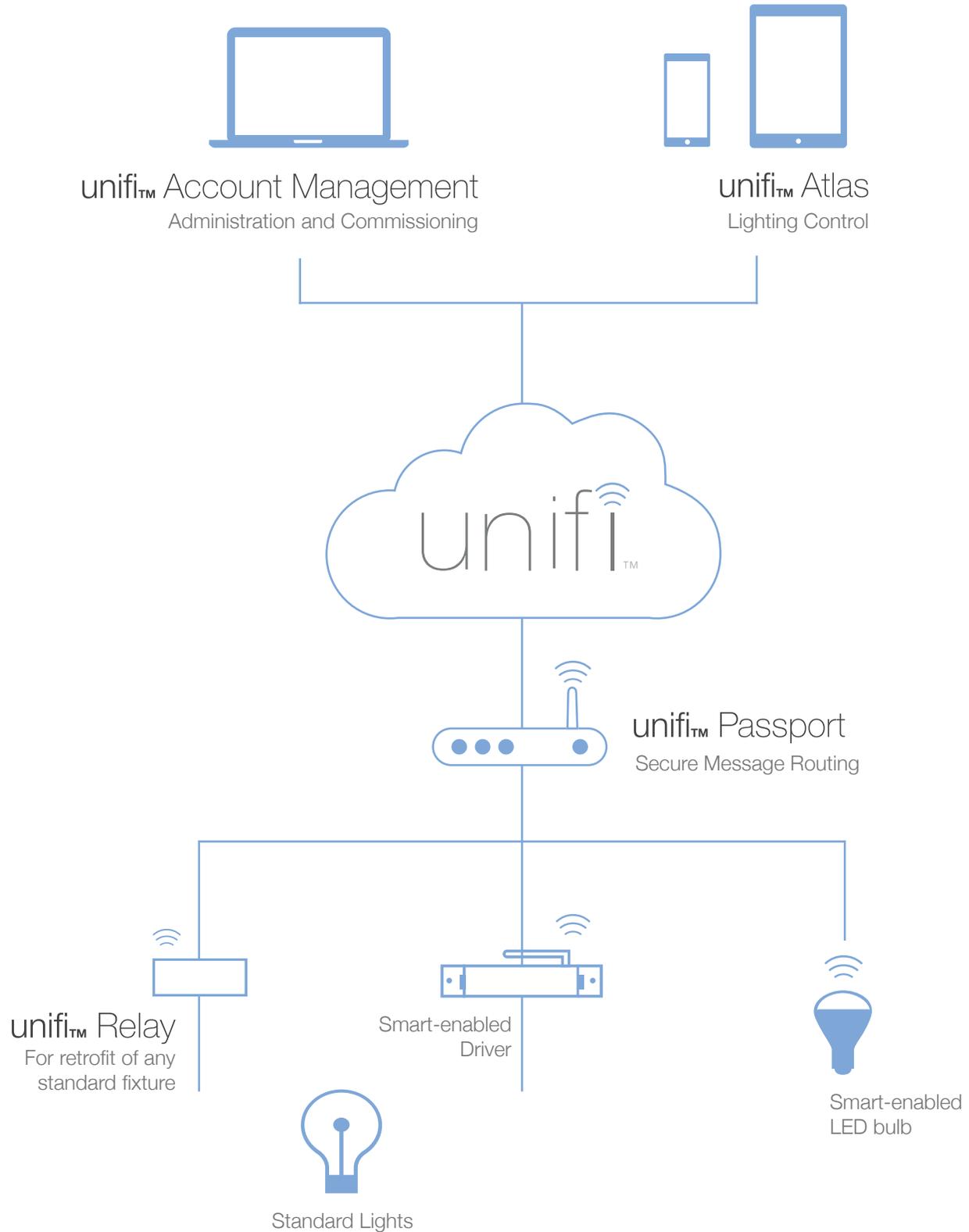
The Genesis

Unlike traditional controls providers, Nimbus9 wasn't constrained by conventional thinking or technical debt in the form of legacy products. Free of such constraints, Nimbus9's Product & Engineering teams were able to question everything and rethink the entire controls experience. By starting from scratch Nimbus9 was able to introduce new technologies and architectures which collapse the costs of controls while delivering a superior experience.

Foundational to this effort is our Cloud First approach. The Cloud is not merely a delivery model but rather a flexible, secure, and modular architecture that allows infinitely scalable performance at previously unattainable economics. By pushing the controls intelligence into the Cloud and consolidating computing resources across Unifi's entire customer base, the cost of controls can be reduced by orders of magnitude while performance is vastly improved.

Beyond reduced cost and improved performance our Cloud First approach has allowed for a greatly simplified architecture and the elimination of almost all components located at the customer site. There are only two components deployed on premises : the Unifi Passport and the individual lighting assets with wireless control. This simplification allows the system to be more resilient and reliable, while easier to troubleshoot and fewer potential points of failure.

Architecture Overview



Architectural Components

Control

The Unifi Control Suite consists of three applications: Account Management, the application where locations, passports, user permissions, and energy analytics are managed; the Commissioning Application, which aids in streamlining the set up process of areas, sensors, and switches; and Atlas the control application that allows users of different roles personalized fixture, area, and scene control.

Cloud

The Cloud is where everything happens from storing information for the fixtures, areas, scenes and schedules to generating the control instructions from the web app and pushing those instructions down to Passport. The Cloud also allows multiple users to have different rights & privileges and offers a complete audit trail of energy usage at the fixture, area, location and portfolio level.

Passport

Unifi Passport consolidates the wireless mesh network and receives control instructions from the Cloud to be pushed out to the network. Passport also communicates an individual devices state back to the cloud.

Devices

Each component in the Platform has a specific function. The individual device with wireless control merely turns itself on or off or dims based on instruction from the Cloud. The only other functions that happen at the device level are the passing of control messages received from Passport to other wireless devices in the mesh network and the communication of state (on/off) to Passport.

Intelligent Control

Intelligent control of lighting and HVAC through a collaboration of schedules, sensors, and switches.

Wireless Networking

No unnecessary area controllers. Control a full property with any web enabled device.

Cloud First

All intelligence comes from the cloud meaning as unifi is updated existing hardware will not become obsolete.

Protocol Agnostic

An open ecosystem for all connected devices

Multi Location

Control an office space, campus, or property portfolio from one centralized interface.

Auditability

unifi records all state changes. This makes full scale audits to the device level possible.

Features

Passport Virtualization

Consolidation of Passports in the cloud to deliver a centralized control solution.

Notifications

Be alerted of irregularities in device behaviour ie a device falling off the network or a specific fixture burning out.

Flexible Configuration

Set up new scenes and areas on the fly or easily make changes to existing ones.

Auto Commissioning

Quick and simple commissioning of lights, sensors, switches, and thermostats.

Rules Engine

Set schedule, sensor, and switch rules that intelligently collaborate with each other to optimize savings and aesthetics

Intuitive User Interface

Complexity made simple. A facilities manager can commission and build out control strategies while tenants can control their personal work environment.

Product Performance vs Warranty Data

Monitor the total kWh burn, hours on, and activation date to determine if a product is still in warranty.

How
unifi™
benefits
you

- 20-35% energy savings
- Devices connecting together wirelessly create an adaptable, intelligent environment
- Time and cost effective commissioning
- Intuitive User Interface
- Device and protocol agnostic
- Low upfront cost
- On the fly building management
- Automatic feature updates
- Scalable to any project, big or small
- Open platform allows for faster innovation
- Eligible for utility and government rebates
- Energy and aesthetic optimization



Nimbus9 has shattered the barriers of cost and complexity in the controls space offering every customer an extremely powerful yet easy to use Controls Platform.

unifi is radically changing the controls experience . The benefits of controls are no longer exclusively attainable by a small portion of building owners. Now any property owner can leverage unifi's control capabilities to optimize their lighting assets and realize lower utility bills.

Tune your atmosphere, use less energy, instantly save money, and do it all on your own terms.