



Vonk & Co

Optimising warehouse connectivity with Omada



BUSINESS CHALLENGE

Deliver reliable warehouse Wi-Fi with complete aisle coverage while reducing unnecessary access points.

CUSTOMER PROFILE



Name:
Vonk & Co



Integrator:
Marble IT



Industry:
Logistics /
Transport



Location:
New White Goods
Warehouse



Site Capacity:
21,000m²

Introduction

For the expansion of a new white goods warehouse, Vonk & Co needed a stable and efficient wireless infrastructure. Together with Marble IT and Omada, a solution was designed that specifically supports logistics workflows, mobile scanners, and reliable coverage in a large-scale warehouse environment.

The Challenge

The end customer had initially created a design based on ceiling-mounted access points, with a very high number of required APs. The challenge was to design a better-suited solution for the specific layout of aisles and mezzanines, without unnecessary complexity or overdimensioning.

The Goal

Provide stable Wi-Fi for mobile scanners with complete coverage across a 21,000 m² warehouse. The solution had to be tailored to aisle and mezzanine structures, use fewer unnecessary access points, and be easy to manage through a central platform with a reliable implementation partner.

The Solution

The final solution was designed around access points suitable for this specific warehouse scenario. By directing the signal more precisely into the aisles and placing it at the right heights, a more efficient network design was achieved, with strong coverage and fewer access points than originally planned.

Implementation

Instead of approximately 105 ceiling-mounted APs, a much more targeted setup was chosen: EAP650 D120-Outdoor access points in the aisles and EAP620 HD access points below and above the mezzanine. This aligned the infrastructure more closely with the actual movement and scanning routes within the warehouse.

Result and impact

Because this is a new location, traditional before-and-after comparisons are limited. However, the Wi-Fi solution proved so satisfactory that the end customer asked Marble IT to equip other warehouse locations with Omada Wi-Fi as well.

Future value

With the stable wireless infrastructure, employees can work faster and more consistently with mobile scanners. This supports a smoother logistics process and lays a scalable foundation for further standardization across multiple locations.

Key benefits



Stable Wi-Fi coverage for mobile scanners



Targeted signal in aisles and warehouse zones



Fewer access points than originally planned



More efficient design with lower complexity



Central management via the Omada controller

Solutions

Access Points



Wi-Fi 6 120-degree sector access points
EAP650 D120-Outdoor



AX1800 Ceiling Mount Wi-Fi 6 Access Point
EAP620 HD

Switches



Omada L2+ switches with 24 Gigabit ports and 4 SFP ports, with 24 PoE+ ports
SG3428MP

Controller



Omada Hardware Controller
OC400