



Würth cuts downtime with self-service container shops on building sites

“Thanks to Eagle Eye Networks and Brivo, we seamlessly integrated both solutions — delivering a robust, user-friendly system for our joint customer, Würth, in no time.”

Gunther Dell, Managing Director, VisionVal



INDUSTRY:

Retail, Construction

LOCATIONS:

Construction sites across Germany

SOLUTION:

- VisionVal V-Store
- Shekel Product-Aware Bays
- Brivo Access Control
- Eagle Eye Cloud VMS and AI Analytics
- Per container:
 - 1 Eagle Eye CMVR (224 and 324 model)
 - 1 Network Switch (SW05m and SW20g)
 - 2 to 10 Eagle Eye DB11 Cameras

PARTNERSHIP:

VisionVal

The Würth Group is a global leader in fastening and assembly materials, operating in more than 80 countries with over 2,800 branches and shops. Würth's BAULOC Group specializes in on-site supply solutions for construction projects, including its autonomous BAULOC 24/6 modules. These self-contained shipping containers function as automated tool shops, operating 6 days a week, 24 hours per day, giving workers easy access to tools, materials, and personal protective equipment.

The Challenge: Secure and efficient distribution of equipment and materials

Würth wanted to deliver urgently needed materials such as chemicals, PPE, and tools directly to construction sites so that workers didn't have to leave the site to collect supplies. By keeping materials close to where the work happens, Würth aimed to streamline procurement, improve productivity, and cut costs.

THIS SOLUTION INCLUDES:

- **On-site supply:** Deliver construction materials, tools, and personal protective equipment directly to the job site.
- **Autonomous operations:** Transition to fully self-service BAULOC 24/6 modules, whereby staff is only required to be on-site occasionally to replenish shelves.
- **ERP (Enterprise Resource Planning) system integration:** Ensure seamless connectivity between satellite shops and the Würth SAP (ERP) system.
- **Centralized access and surveillance:** Manage access control, video surveillance, and video analytics from a single platform.

KEY CHALLENGES:

- **Inventory management:** Prevent shrinkage while providing accurate, real-time stock tracking.
- **Secure access control:** Restrict entry to authorized personnel and prevent overcrowding inside containers.
- **Automated billing:** Link tool usage to specific companies, ensuring accurate invoicing.

The Solution: Automation integrated with access control and analytics from the Eagle Eye Cloud VMS.

Würth cuts downtime with self-service container shops on building sites, requiring staff only for occasional tasks such as restocking shelves.

- **Shelke product-aware bays:** Tracks products using precise weight measurements, provides real-time inventory updates, and automates shopping-basket creation.
- **Brivo Access Control:** Construction workers use personalized access cards linked to their employer's account for secure entry and automated billing.
- **Eagle Eye Cloud VMS and AI video analytics:** Improves security by monitoring container interiors, enforcing access policies, and ensuring compliance with safety regulations and usage guidelines.
- **Hybrid container improvements:** Workers access tools and materials through larger stations made up of four connected containers, each equipped with 8–12 cameras. On-screen displays show a live feed and a real-time list of selected items, allowing workers to review and complete their checkout quickly and efficiently.

The Results: Reduced labor costs and increased efficiency using hybrid and autonomous modules.

- **24/7 availability:** Workers can access tools and materials anytime, reducing delays and improving efficiency.
- **Improved security:** Only one company at a time can access each container, reducing risks and maintaining order.
- **Automated operations:** Inventory tracking and billing run without manual intervention.
- **Optimized hybrid containers:** Staff are only needed occasionally for advisory support, reducing labor costs.

Through advanced inventory tracking, secure access control, and AI-driven video surveillance, VisionVal and Würth AG have transformed the distribution of tools and materials on construction sites. These autonomous smart modules improve efficiency, security, and accessibility, setting a new standard for on-site procurement.

"With our solution, we enable our customers to purchase urgently needed goods directly at the construction side around the clock," said Thies Sören Pohl, the Project Manager at BAULOC Digital. "This saves time and money and allows for extended opening hours without additional staffing costs. The technology of our strategic partner VisionVal enables a modern shopping experience, is cost-efficient for Würth, and promotes rapid growth, and more service for our customers, as well as expansion into new markets."

